



## ECE TYPE-APPROVAL CERTIFICATE



Communication concerning:<sup>2</sup>    Approval granted  
                                                 ~~Approval extended~~  
                                                 ~~Approval refused~~  
                                                 ~~Approval withdrawn~~  
                                                 ~~Production definitively discontinued~~

Of a vehicle type with regard to braking, pursuant to Regulation No. 13

Approval No: **E24\*13R11/14\*0056\*00**

Reason(s) for extension:

*N/A*

- |        |                                                                             |                                                                                            |
|--------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| 1.     | Trade name or make of the vehicle:                                          | <i><b>Iveco / System Truck</b></i>                                                         |
| 2.     | Vehicle category:                                                           | <i><b>N3</b></i>                                                                           |
| 3.     | Vehicle type:                                                               | <i><b>ST 2Y3C 13R</b></i>                                                                  |
| 4.     | Manufacturer's name and address:                                            | <i><b>S.T. System Truck S.p.A.<br/>Via Paesa, 28<br/>IT-46048 Roverbella (MN)</b></i>      |
| 5.     | If applicable name and address of manufacturer's authorised representative: | <i><b>N/A</b></i>                                                                          |
| 6.     | Mass of the vehicle:                                                        |                                                                                            |
| 6.1.   | Maximum mass of the vehicle:                                                | <i><b>35000 kg</b></i>                                                                     |
| 6.2.   | Minimum mass of the vehicle:                                                | <i><b>8530 kg</b></i>                                                                      |
| 7.     | Distribution of mass on each axle (maximum value):                          | <i><b>Axle 1: 9000 kg<br/>Axle 2: 7500 kg<br/>Axle 3: 12000 kg<br/>Axle 4: 8000 kg</b></i> |
| 8.     | Make and type of brake linings, discs and drums:                            | <i><b>See information folder for details</b></i>                                           |
| 8.1.   | Brake linings                                                               |                                                                                            |
| 8.1.1. | Brake linings tested to all relevant prescriptions of Annex 4:              | <i><b>Tested according to Annex 12.</b></i>                                                |



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|        |                                                                                                  |                                                                                               |
|--------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| 8.1.2. | Alternative brake linings tested in Annex 15:                                                    | <b>N/A</b>                                                                                    |
| 8.2.   | Brake discs and drums                                                                            |                                                                                               |
| 8.2.1. | Identification code of brake discs covered by the braking system approval:                       | <b><i>See information folder for details</i></b>                                              |
| 8.2.2. | Identification code of brake drums covered by the braking system approval:                       | <b><i>See information folder for details</i></b>                                              |
| 9.     | In the case of a power driven vehicle                                                            |                                                                                               |
| 9.1.   | Engine type:                                                                                     | <b><i>See information folder for details</i></b>                                              |
| 9.2.   | Number and ratios of gears:                                                                      | <b><i>See information folder for details</i></b>                                              |
| 9.3.   | Final drive ratio:                                                                               | <b>3.2</b>                                                                                    |
| 9.4.   | If applicable, maximum mass of trailer which may be coupled:                                     |                                                                                               |
| 9.4.1. | Full trailer:                                                                                    | <b><i>See information folder for details</i></b>                                              |
| 9.4.2. | Semi-trailer:                                                                                    | <b>N/A</b>                                                                                    |
| 9.4.3. | Centre-axle trailer (indicate also the maximum ratio of the coupling overhang to the wheelbase): | <b><i>See information folder for details</i></b>                                              |
| 9.4.4. | Unbraked trailer:                                                                                | <b>750kg</b>                                                                                  |
| 9.4.5. | Maximum mass of the combination:                                                                 | <b>60000 kg</b>                                                                               |
| 10.    | Tyre dimensions:                                                                                 | <b><i>See information folder for details</i></b>                                              |
| 10.1.  | Temporary-use spare wheel/tyre dimensions:                                                       | <b>N/A</b>                                                                                    |
| 10.2.  | Vehicle meets the technical requirements of Annex 3 to Regulation No. 64 (yes/no):               | <b>No.</b>                                                                                    |
| 11.    | Number and arrangement of axles:                                                                 | <b>Version A: 4 Axles 2<sup>nd</sup> and 4<sup>th</sup> retractable<br/>Version B 4 Axles</b> |
| 12.    | Brief description of braking equipment:                                                          | <b><i>See information folder for details</i></b>                                              |
| 13.    | Mass of vehicle when tested:                                                                     | <b><i>Mass in running order and Technically Permissible maximum laden mass</i></b>            |



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|          |                                                                                                                                                             |                                                                                                 |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| 14.      | Results of the tests and vehicle characteristics:                                                                                                           | <b><i>See test report IT18/1369-00 and manufacturer's information document for details.</i></b> |
| 14.6.    | Braking system(s) used during the Type-II/IIA test:                                                                                                         | <b><i>Engine brake integrated with retarder</i></b>                                             |
| 14.7.    | Reaction time and dimensions of flexible pipes:                                                                                                             | <b><i>See information folder for details</i></b>                                                |
| 14.7.1.  | Reaction time at the brake actuator:                                                                                                                        | <b><i>N/A</i></b>                                                                               |
| 14.7.2.  | Reaction time at the control line coupling head:                                                                                                            | <b><i>N/A</i></b>                                                                               |
| 14.7.3.  | Flexible pipes of tractors for semi-trailers:<br>Reservoir – modulator:<br>internal diameter (mm):<br>Modulator – brake chambers<br>internal diameter (mm): | <b><i>N/A</i></b>                                                                               |
| 14.8.    | Information required under paragraph 7.3. of annex 10 to this Regulation:                                                                                   | <b><i>N/A</i></b>                                                                               |
| 14.9.    | Vehicle <del>is</del> /is not equipped to tow a trailer with electrical braking systems:                                                                    | <b><i>Is not</i></b>                                                                            |
| 14.10.   | Vehicle <del>is/is not</del> equipped with an anti-lock system:                                                                                             | <b><i>Is</i></b>                                                                                |
| 14.10.1. | Category of anti-lock system:                                                                                                                               | <b><i>Category 1/2/3</i></b><br><b><i>Category A/B</i></b>                                      |
| 14.10.2. | The vehicle fulfils the requirements of annex 13:                                                                                                           | <b><i>Yes</i></b>                                                                               |
| 14.10.3. | Vehicle <del>is/is not</del> equipped to tow trailers equipped with anti-lock systems:                                                                      | <b><i>Is</i></b>                                                                                |
| 14.10.4. | Where an annex 19 test report has been utilised, the test report number(s) shall be stated:                                                                 | <b><i>N/A</i></b>                                                                               |
| 14.11.   | The vehicle is subject to the requirements of annex 5 (ADR):                                                                                                | <b><i>Yes</i></b>                                                                               |
| 14.11.1. | The vehicle fulfils the endurance braking performance requirements according to the Type-IIA test up to a total maximum mass of ..... tonnes:               | <b><i>See information folder for details</i></b>                                                |
| 14.11.2. | The power driven vehicle is fitted with a control device for the endurance braking system on the trailer:                                                   | <b><i>N/A</i></b>                                                                               |
| 14.11.3. | In the case of trailers, the vehicle is equipped with an endurance braking system:                                                                          | <b><i>No</i></b>                                                                                |



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|          |                                                                                                               |                  |
|----------|---------------------------------------------------------------------------------------------------------------|------------------|
| 14.12.   | Vehicle is equipped with a control line(s) according to paragraphs <del>5.1.3.1.1/5.1.3.1.2/5.1.3.1.3</del> : | <b>5.1.3.1.2</b> |
| 14.13.   | Adequate documentation according to annex 18 was supplied in respect of the following systems:                | <b>N/A</b>       |
| 14.14.   | The vehicle is equipped with a vehicle stability function:                                                    | <b>yes</b>       |
|          | If yes:                                                                                                       |                  |
|          | The vehicle stability function has been tested according to and fulfils the requirements of Annex 21:         | <b>Yes</b>       |
|          | Vehicle stability function is optional equipment:                                                             | <b>No</b>        |
|          | Vehicle stability function includes directional control:                                                      | <b>Yes</b>       |
|          | Vehicle stability function includes roll-over control:                                                        | <b>Yes</b>       |
| 14.14.1. | Where an Annex 19 test report has been utilised, the test report number shall be stated:                      | <b>N/A</b>       |
| 15.      | Additional information for use with the annex 20 alternative type approval procedure:                         | <b>N/A</b>       |
| 15.1.    | Description of suspension:                                                                                    | <b>N/A</b>       |
| 15.1.1.  | Manufacturer:                                                                                                 | <b>N/A</b>       |
| 15.1.2.  | Make:                                                                                                         | <b>N/A</b>       |
| 15.1.3.  | Type:                                                                                                         | <b>N/A</b>       |
| 15.1.4.  | Model:                                                                                                        | <b>N/A</b>       |
| 15.2.    | Wheelbase of vehicle tested:                                                                                  | <b>N/A</b>       |
| 15.3.    | Actuation differential (if any) within axle group:                                                            | <b>N/A</b>       |
| 16.      | Trailer approved utilising annex 20 procedure:<br>(If yes, appendix 2 to annex 2 shall be completed)          | <b>N/A</b>       |

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17. Vehicle submitted for approval on: **30.07.2018**
18. Technical service responsible for conducting approval tests: **FAKT S.r.l.,  
Via Lithos, 53,  
IT-25086 Rezzato (BS),  
Italy.**
19. Date of report issued by that service: **26.07.2018**
20. Number of report issued by that service: **IT18/1369-00**
21. Approval granted/~~refused~~/~~extended~~/~~withdrawn~~: **Granted**
22. Position of approval mark on the vehicle: **See manufacturers documentation**
23. Place: **Dublin.**
24. Date: **31<sup>st</sup> August, 2018**
25. Signature: 



26. The summary referred to in paragraph 4.3. of this Regulation is annexed to this communication.

*\*/ At the request of (an) applicant(s) for Regulation No. 90 approval, the information shall be provided by the Type Approval Authority as contained in Appendix 1 to this annex. However, this information shall not be provided for purposes other than Regulation No. 90 approvals.*



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## **Index to the Information Package**

|                                                                     |                                            |
|---------------------------------------------------------------------|--------------------------------------------|
| Date of issue:                                                      | <b><i>31<sup>st</sup> August, 2018</i></b> |
| Date of latest amendment:                                           | <b><i>N/A</i></b>                          |
| Reason for extension/revision:                                      | <b><i>N/A</i></b>                          |
| 1. Additional conditions, and advisory notes on legal alternatives. |                                            |
| 2. Test report(s)                                                   |                                            |
| - numbers(s):                                                       | <b><i>IT18/1369-00</i></b>                 |
| - date of issue:                                                    | <b><i>26.07.2018</i></b>                   |
| - date of latest amendment:                                         | <b><i>N/A</i></b>                          |
| 3. Information document                                             |                                            |
| - number(s):                                                        | <b><i>ST_2Y3C_13R</i></b>                  |
| - date of issue:                                                    | <b><i>25.06.2018</i></b>                   |
| - date of latest amendment:                                         | <b><i>N/A</i></b>                          |
| Documentation:                                                      | <b><i>95 pages</i></b>                     |



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**Appendix: Additional conditions, and advisory notes on legal alternatives**

A: Additional conditions:

1. The attached technical report, with any of its attachments, forms part of this Type Approval certificate.
2. Each type from series production shall be to the measurements specified in the attached drawings, and shall be manufactured only from the materials specified in the Approval documents.
3. Changes in the type are permitted only with the explicit permission of NSAI. Breaches of this requirement will lead to a withdrawal of the Type Approval, and in addition may be subject to criminal prosecution.
4. At regular intervals, any tests or associated checks prescribed by the applicable legislation to verify continued conformity with the approved type shall be carried out. The manufacturer shall demonstrate compliance with this by submitting to NSAI evidence of adequate arrangements and documented control plans for each type approved.
5. Any set of samples or test pieces showing evidence of non-conformity shall give rise to further sampling and testing and all steps shall be taken to restore conformity of production.
6. This Type Approval will expire when it is surrendered by the holder, or withdrawn by NSAI, or when the approved type no longer conforms to legal requirements. The recall of the Type Approval can be issued by NSAI when the conditions required for the issuing or continuation of the Type Approval are no longer current, or when the Approval holder is in breach of the duties attached to the Type Approval, or when it is established that the approved type no longer meets the requirements of traffic safety.
7. Changes in the company name, address or manufacturing site, as well as in any of the sales or other agents specified in the issuing of the approval must immediately be notified to NSAI.
8. The duties imposed by the issuing of this certificate are not transferable. The legal protection of third parties is not affected by this certificate.
9. When the manufacture or sale of the system, component or separate technical unit has not been started within one year of the date of issue of this certificate, then NSAI is to be informed. This requirement also applies when the manufacture or sale has been halted for more than one year, or when it ought to have been halted for more than one year. The initial commencement of manufacture or sale, or the resumption of manufacture or sale, shall then be notified to NSAI within one month of commencement or resumption.

B: Legal Options:

Any objection to the requirements set out in this certificate shall be made within one month of the date of issue. The objection shall be made, in writing, to NSAI in Dublin.



## SCHEDA INFORMATIVA INFORMATION DOCUMENT

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of **25.06.2018**

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|---------------------|-----------------------------------------------------------------------------------------------|----|--------|------------------------------------------|----------|------------|
| I??                 | 4200                                                                                          | mm | AS     | 55.01.03.0031                            | del / of | 24.11.2015 |
| I??                 | 4200                                                                                          | mm | AD, AT | 55.01.03.0032                            | del / of | 12.01.2015 |
| I??                 | 4500                                                                                          | mm | AS     | 55.01.03.0033                            | del / of | 22.04.2015 |
| I??                 | 4500                                                                                          | mm | AD, AT | 55.01.03.0034                            | del / of | 22.04.2015 |
| I??                 | 4800                                                                                          | mm | AS     | 55.01.03.0035                            | del / of | 12.01.2015 |
| I??                 | 4800                                                                                          | mm | AD, AT | 55.01.03.0036                            | del / of | 12.01.2015 |
| I??                 | 5100                                                                                          | mm | AS     | 55.01.03.0037                            | del / of | 12.01.2015 |
| I??                 | 5100                                                                                          | mm | AD, AT | 55.01.03.0038                            | del / of | 12.01.2015 |
| I??                 | 5500                                                                                          | mm | AD, AT | 55.01.03.0126                            | del / of | 19.07.2018 |
| I??                 | 5700                                                                                          | mm | AS     | 55.01.03.0039                            | del / of | 12.01.2015 |
| I??                 | 5700                                                                                          | mm | AD, AT | 55.01.03.0040                            | del / of | 12.01.2015 |
| I??                 | 6050                                                                                          | mm | AS     | 55.01.03.0041                            | del / of | 12.01.2015 |
| I??                 | 6050                                                                                          | mm | AD, AT | 55.01.03.0042                            | del / of | 12.01.2015 |
| B??                 | 4200                                                                                          | mm | AS     | 55.01.03.0113                            | del / of | 16.05.2018 |
| B??                 | 4200                                                                                          | mm | AD, AT | 55.01.03.0114                            | del / of | 16.05.2018 |
| B??                 | 4500                                                                                          | mm | AS     | 55.01.03.0115                            | del / of | 16.05.2018 |
| B??                 | 4500                                                                                          | mm | AD, AT | 55.01.03.0116                            | del / of | 16.05.2018 |
| B??                 | 4800                                                                                          | mm | AS     | 55.01.03.0117                            | del / of | 16.05.2018 |
| B??                 | 4800                                                                                          | mm | AD, AT | 55.01.03.0118                            | del / of | 16.05.2018 |
| B??                 | 5100                                                                                          | mm | AS     | 55.01.03.0119                            | del / of | 16.05.2018 |
| B??                 | 5100                                                                                          | mm | AD, AT | 55.01.03.0120                            | del / of | 16.05.2018 |
| B??                 | 5700                                                                                          | mm | AS     | 55.01.03.0121                            | del / of | 16.05.2018 |
| B??                 | 5700                                                                                          | mm | AD, AT | 55.01.03.0122                            | del / of | 16.05.2018 |
| B??                 | 6050                                                                                          | mm | AS     | 55.01.03.0123                            | del / of | 16.05.2018 |
| B??                 | 6050                                                                                          | mm | AD, AT | 55.01.03.0124                            | del / of | 16.05.2018 |



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|                                                                                                                                                                                     |                                                             |                                              |                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------------|------------------------------------------------------|
| disegno sospensione asse aggiunto sterzante:<br><i>suspension drawing of added steering axle:</i>                                                                                   | 10.03.00.0042<br>10.03.00.0048<br>10.03.00.0008<br>10110001 | del / of<br>del / of<br>del / of<br>del / of | 12.01.2015<br>27.10.2014<br>12.03.2015<br>22.07.2013 |
| schema impianto frenante, con sollevatore 2° asse,<br>con rimorchiabile:<br><i>brake system layout drawing, with retractable 2<sup>nd</sup> axle,<br/>towing vehicle:</i>           | 25.01.20.0024, pag. 1                                       | del / of                                     | 18.06.2018                                           |
| schema impianto frenante, con sollevatore 2° asse,<br>senza rimorchiabile:<br><i>brake system layout drawing, with retractable 2<sup>nd</sup> axle,<br/>no towing vehicle:</i>      | 25.01.20.0024, pag. 2                                       | del / of                                     | 18.06.2018                                           |
| schema impianto pneumatico, con sollevatore<br>2° asse:<br><i>pneumatic system layout drawing, with retractable 2<sup>nd</sup> axle:</i>                                            | 25.01.20.0024, pag. 3                                       | del / of                                     | 18.06.2018                                           |
| schema impianto frenante, senza sollevatore<br>2° asse, con rimorchiabile:<br><i>brake system layout drawing, without retractable 2<sup>nd</sup> axle,<br/>towing vehicle:</i>      | 25.01.20.0031, pag. 1                                       | del / of                                     | 18.06.2018                                           |
| schema impianto frenante, senza sollevatore<br>2° asse, senza rimorchiabile:<br><i>brake system layout drawing, without retractable 2<sup>nd</sup> axle,<br/>no towing vehicle:</i> | 25.01.20.0031, pag. 2                                       | del / of                                     | 18.06.2018                                           |
| schema impianto pneumatico, senza sollevatore<br>2° asse:<br><i>pneumatic system layout drawing, without retractable<br/>2<sup>nd</sup> axle:</i>                                   | 25.01.20.0031, pag. 3                                       | del / of                                     | 18.06.2018                                           |
| pinza freno 2° asse:<br><i>brake pad of 2<sup>nd</sup> axle:</i>                                                                                                                    | Z002709                                                     | del / of                                     | 03.05.2002                                           |



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### 0. DATI GENERALI GENERAL

- 0.1. Marca (denominazione commerciale del costruttore): Iveco / System Truck  
*Make (trade name of manufacturer):*
- 0.2. Tipo: ST 2Y3C 13R  
*Type:*
- Varianti: vedere allegati n° 0.0 e 0.1  
*Variants: see annex No. 0.0 and 0.1*
- Versioni: vedere allegati n° 0.0 e 0.1  
*Versions: see annex No. 0.0 and 0.1*
- 0.2.1. Eventuale/i designazione/i commerciale/i: AD opp./or AT 260SY/FP CM, .../FP D, .../FS CM, .../FS D, .../P, .../PS, .../PT  
*Commercial name(s) (if available):*  
AS 260SY/FP CM, .../FP GV, .../FS CM, .../FS GV, .../P, .../PS  
AD, AT opp./or AS 260SY/FS D CNG, .../PS CNG, .../FS CM NG, .../FS CM CNG, .../PS NG, .../PS CNG  
AD, AT opp./or AS 260Y/PS, ...HR
- 0.3. Mezzi di identificazione del tipo, se marcati sul veicolo: numero di omologazione del tipo su targhetta  
*Means of identification of type, if marked on the vehicle: type approval number on manufacturer's plate*
- 0.3.1. Posizione della marcatura: su targhetta VIN  
*Location of that marking: on VIN plate*
- 0.4. Categoria del veicolo: N3  
*Category of vehicle:*
- 0.5. Nome e indirizzo del costruttore: (fase 1) Iveco Magirus AG  
*Name and address of manufacturer: (stage 1) D-89070 Ulm*  
(fase 2) S.T. System Truck S.p.A.  
*(stage 2) I-46048 Roverbella (MN) - Via Paesa, 28*
- 0.8. Den./i e indirizzo/i dello/gli stabilimento/i di montaggio: S.T. System Truck S.p.A.  
*Name(s) and address(es) of assembly plant(s): I-46048 Roverbella (MN) - Via Paesa, 28*  
S.T. System Truck S.p.A.  
E-28850 Torrejón de Ardoz (Madrid), c/Cobre, 15
- 0.9. Denominazione e indirizzo dell'(eventuale) rappresentante del costruttore: non ricorre  
*Name and address of the manufacturer's representative (if any): not applicable*

### 1. CARATTERISTICHE COSTRUTTIVE GENERALI DEL VEICOLO GENERAL CONSTRUCTION CHARACTERISTICS OF THE VEHICLE

- 1.1. Fotografie e/o disegni di un veicolo rappresentativo: vedere allegato n° 1  
*Photographs and/or drawings of a representative vehicle: see annex Nr. 1*



Fotografia ¾ anteriore  
Photo ¾ front



Fotografia ¾ posteriore  
Photo ¾ rear



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|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                |                        |                                        |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|------------------------|----------------------------------------|
| 1.3.     | Numero di assi e di ruote:<br><i>Number of axles and wheels:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4                                              | assi,<br><i>axles,</i> | 8 ruote<br><i>wheels</i>               |
| 1.3.1.   | Numero e posizione degli assi a ruote gemellate:<br><i>Number and position of axles with twin wheels:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1                                              | asse,<br><i>axle,</i>  | 3° asse<br><i>3<sup>rd</sup> axle</i>  |
| 1.3.3.   | Assi motore (numero, posizione, interconnessione):<br><i>Powered axles (number, position, interconnection):</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | vedere allegato n° 1<br><i>see annex Nr. 1</i> |                        |                                        |
| 1.8.     | Lato di guida:<br><i>Hand of drive:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | a sinistra<br><i>left</i>                      | oppure<br><i>or</i>    | a destra<br><i>right</i>               |
| 1.8.1.   | Il veicolo è predisposto per la circolazione stradale:<br><i>Vehicle is equipped to be driven in:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | a destra<br><i>right hand traffic</i>          | oppure<br><i>or</i>    | a sinistra<br><i>left hand traffic</i> |
| 2.       | <b>MASSE E DIMENSIONI</b> (in kg e mm)<br><b>MASSES AND DIMENSIONS</b> (in kg and mm)<br>(eventualmente con riferimento ai disegni)<br>(refer to drawing where applicable)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                |                        |                                        |
| 2.1.     | Interasse o interassi (a pieno carico)<br><i>Wheelbase(s) (fully loaded)</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                |                        |                                        |
| 2.1.1.   | Veicoli a 2 assi:<br><i>Two axle vehicles:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | non ricorre<br><i>not applicable</i>           |                        |                                        |
| 2.1.2.   | Veicoli a 3 o più assi:<br><i>Vehicles with three or more axles:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ricorre<br><i>applicable</i>                   |                        |                                        |
| 2.1.2.1. | Distanza tra assi consecutivi, da quello in posizione più avanzata a quello in posizione più arretrata:<br><i>Axle spacing between consecutive axles going from the foremost to the rearmost axle:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | vedere allegato n°                             | 2                      |                                        |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <i>see annex Nr. 2</i>                         |                        |                                        |
| 2.1.2.2. | Distanza totale tra gli assi:<br><i>Total axle spacing:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | vedere allegato n° 2<br><i>see annex Nr. 2</i> |                        |                                        |
| 2.2      | Ralla<br><i>Fifth wheel</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                |                        |                                        |
| 2.2.2    | Veicoli trattori di semirimorchi:<br><i>In case of semi-trailer towing vehicles:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | non ricorre<br><i>not applicable</i>           |                        |                                        |
| 2.3.1.   | Carreggiata di ciascun asse sterzante:<br><i>Track of each steered axle:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | vedere allegato n° 2<br><i>see annex Nr. 2</i> |                        |                                        |
| 2.3.2.   | Carreggiata di tutti gli altri assi:<br><i>Track of all other axles:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | vedere allegato n° 2<br><i>see annex Nr. 2</i> |                        |                                        |
| 2.6.     | Massa del veicolo carrozzato, con il dispositivo di accoppiamento se veicolo trattore di categoria diversa dalla categoria M1, in ordine di marcia, oppure massa del telaio cabinato qualora il costruttore non fornisca la carrozzeria e/o il dispositivo di accoppiamento [compresi liquido refrigerante, lubrificanti, carburante, 100 % di altri liquidi, escluse le acque usate, attrezzi, ruota di scorta e conducente e, nel caso degli autobus, la massa di una seconda persona (75 kg) se nel veicolo è previsto per essa un apposito sedile]: (massima e minima):<br><i>Mass of the vehicle with bodywork, and with coupling device in the case of a towing vehicle of category other than M1 in running order, or mass of the chassis with cab if the manufacturer does not fit the bodywork and/or coupling device (including coolant, oils, fuel, 100 % other liquids except used waters, tools, spare wheel and driver and, for buses and coaches, the mass of the crew member (75 kg) if there is a crew seat in the vehicle):</i><br>(maximum and minimum): | minima: 8530<br>massima: 10030                 |                        |                                        |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | minimum: 8530<br>maximum: 10030                |                        |                                        |



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- 2.6.1. Distribuzione di tale massa tra gli assi e, nel caso di un semirimorchio o di un rimorchio ad asse centrale, carico gravante sul punto di aggancio (massima e minima per ogni variante):  
*Distribution of this mass among the axles and, in the case of a semitrailer or centre-axle trailer, load on the coupling point (maximum and minimum for each variant):*
- |          | 1°   | 2° + 3° + 4° |
|----------|------|--------------|
| minima:  | 4415 | 3945         |
| massima: | 5550 | 4980         |
- 2.7. Massa minima del veicolo completo dichiarata dal costruttore, nel caso di un veicolo incompleto:  
*Minimum mass of the completed vehicle as stated by the manufacturer, in the case of an incomplete vehicle:*
- vedere allegato n° 2  
*see annex Nr. 2*
- 2.7.1. Ripartizione di tale massa sugli assi e, nel caso di un semirimorchio o di un rimorchio ad asse centrale, carico gravante sul punto di accoppiamento:  
*Distribution of this mass among the axles and, in the case of semitrailer or centre-axle trailer, load on the coupling point:*
- vedere allegato n° 2  
*see annex Nr. 2*
- 2.8. Massa massima a pieno carico tecnicamente ammissibile dichiarata dal costruttore:  
*Technically permissible maximum laden mass stated by the manufacturer:*
- 35000
- 2.8.1. Distribuzione di tale massa tra gli assi e, per semirimorchi o rimorchi ad asse centrale, carico gravante sul punto di traino:  
*Distribution of this mass among the axles and, in the case of a semitrailer or centre-axle trailer, load on the coupling point:*
- |     |           |
|-----|-----------|
| 1°: | max 9000  |
| 2°: | max 7500  |
| 3°: | max 12000 |
| 4°: | max 8000  |
- 2.9. Carico/massa massima tecnicamente ammissibile su ciascun asse:  
*Technically permissible maximum mass on each axle:*
- vedere allegato n° 2  
*see annex Nr. 2*
- 2.10. Carico/massa massima tecnicamente ammissibile su ciascun gruppo di assi:  
*Technically permissible maximum load/mass on each axle group:*
- vedere allegato n° 2  
*see annex Nr. 2*
- 2.11. Massa massima rimorchiabile tecnicamente ammissibile del veicolo a motore in caso di  
*Technically permissible maximum towable mass of the motor vehicle in case of*
- 2.11.1. - rimorchio a timone:  
*- drawbar trailer:*
- vedere allegato n° 2  
*see annex Nr. 2*
- 2.11.2. - semirimorchio:  
*- semi-trailer:*
- non ricorre  
*not applicable*
- 2.11.3. - rimorchio ad asse centrale:  
*- centre-axle trailer:*
- vedere allegato n° 2  
*see annex Nr. 2*
- 2.11.4. Massa massima tecnicamente ammissibile a pieno carico del veicolo combinato:  
*Technically permissible maximum laden mass of the combination:*
- vedere allegato n° 2  
*see annex Nr. 2*
- 2.11.6. Massa massima del rimorchio non frenato:  
*Maximum mass of unbraked trailer:*
- vedere allegato n° 2  
*see annex Nr. 2*
- 2.12. Carico verticale statico/massa massima tecnicamente ammissibile sul punto di aggancio  
*Technically permissible maximum static vertical load/mass on the vehicle's coupling point*
- 2.12.1. - del veicolo a motore:  
*- of the motor vehicle:*
- vedere allegato n° 2  
*see annex Nr. 2*



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### 3. MOTOPROPULSORE POWER PLANT

- 3.1. Costruttore: FPT Industrial S.p.A.  
Manufacturer:
- 3.1.1. Codice motore del costruttore quale apposto sul motore: vedere allegato n° 3  
Manufacturer's engine code as marked on the engine: see annex Nr. 3
- 3.2.1.1. Principio di funzionamento: vedere allegato n° 3  
Working principle: see annex Nr. 3
- Ciclo: quattro tempi  
Cycle: four stroke
- 3.2.1.9. Regime massimo ammesso dichiarato dal costruttore: vedere allegato n° 3  
Maximum permitted speed as prescribed by the manufacturer: see annex Nr. 3
- 3.2.5. Impianto elettrico  
Electrical system
- 3.2.5.1. Tensione nominale: 24 V, terminale a massa: negativo  
Rated voltage: V, ground: negative
- 3.2.5.2. Generatore  
Generator
- 3.2.5.2.1. Tipo: Alternatore  
Type: Alternator
- 3.2.5.2.2. Potenza nominale: 1120 ÷ 3360 VA  
Nominal output:
- 3.3. Motore elettrico  
Electric motor
- 3.3.1. Tipo (avvolgimento, eccitazione): non ricorre  
Type (winding, excitation): not applicable
- 3.3.1.1. Potenza oraria massima: non ricorre  
Maximum hourly output: not applicable
- 3.3.1.2. Tensione di esercizio: non ricorre  
Operating voltage: not applicable
- 3.3.2. Batteria  
Battery
- 3.3.2.2. Massa: non ricorre  
Mass: not applicable
- 3.3.2.4. Ubicazione: non ricorre  
Position: not applicable
- 3.4. Altri motori o propulsori o loro combinazioni (indicazione degli elementi di questi tipi di motori): non ricorre  
Other engines or motors or combinations thereof (particulars regarding the parts of such engines or motors): not applicable
- ### 4. TRASMISSIONE TRANSMISSION
- 4.2. Tipo (meccanica, idraulica, elettrica, ecc.): 3° asse interconnessione meccanica oppure  
Type (mechanical, hydraulic, electric,...): 1° asse idraulica e 3° asse meccanica  
3<sup>rd</sup> axle mechanical interconnection or  
1<sup>st</sup> axle hydraulic and 3<sup>rd</sup> axle mechanical
- 4.6. Rapporti di trasmissione: vedere allegato n° 4  
Gear ratios: see annex Nr. 4



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| Marcia<br><br>Gear                                                                                                                                                                                                                     | Rapporti del cambio<br>(rapporti tra il numero<br>di giri dell'albero motore<br>e quelli dell'albero se-<br>condario del cambio)<br><i>Internal gearbox ratios<br/>(ratios of engine to gearbox<br/>output shaft revolutions)</i> | Rapporto(i) finale/i<br>(rapporto tra il numero<br>di giri dell'albero secon-<br>dario e quelli delle ruo-<br>te motrici)<br><i>Final drive ratio(s)<br/>(ratio of gearbox output<br/>shaft to driven wheel revolutions)</i> | Rapporti totali<br>di trasmissione<br><br><i>Total gear ratios</i> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| Massimo per cambio<br>continuo <sup>(1)</sup><br><i>Maximum for CVT <sup>(1)</sup></i><br>1<br>2<br>3<br>...<br>Minimo per cambio<br>continuo <sup>(1)</sup><br><i>Minimum for CVT <sup>(1)</sup></i><br>Retromarcia<br><i>Reverse</i> |                                                                                                                                                                                                                                   |                                                                                                                                                                                                                              |                                                                    |

<sup>(1)</sup> Trasmissione cambio continuo. *Continuously variable transmission.*

4.7. Velocità massima di progetto del veicolo: max 90 km/h con limitatore di velocità  
*Maximum vehicle design speed: with speed limiting device*

## 5. ASSI AXLES

5.4. Posizione dello/gli asse/i sollevabile/i: vedere allegato n° 5  
*Position of retractable axle(s): see annex Nr. 5*

## 6. SOSPENSIONE SUSPENSION

6.1. Disegno dei dispositivi di sospensione: 1° asse: originale Iveco  
*Drawing of the suspension arrangements: 1<sup>st</sup> axle: original Iveco*  
2° asse: vedere allegato n° 6  
*2<sup>nd</sup> axle: see annex Nr. 6*  
3° asse: originale Iveco  
*3<sup>rd</sup> axle: original Iveco*  
4° asse: originale Iveco  
*4<sup>th</sup> axle: original Iveco*

6.2. Tipo e modello della sospensione di ciascun asse o ruota:  
*Type and design of the suspension of each axle or wheel:*  
1°: sospensione meccanica o pneumatica, ammortizzatori idraulici  
*mechanical suspension or air suspension, hydraulic shock absorbers*  
2°: sospensione pneumatica, ammortizzatori idraulici:  
*see annex Nr. 6*  
*air suspension, hydraulic shock absorbers, see annex Nr. 6*  
3°: sospensione pneumatica, ammortizzatori idraulici  
*air suspension, hydraulic shock absorbers*  
4°: sospensione pneumatica, ammortizzatori idraulici  
*air suspension, hydraulic shock absorbers*

6.6. Pneumatici e ruote  
*Tyres and wheels*



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- 6.6.1. Combinazione/i pneumatico/cerchione:  
*Tyre/wheel combination(s):*
- a) per gli pneumatici indicare la designazione della misura, l'indice della capacità di carico, il simbolo della categoria di velocità ed eventualmente la resistenza al rotolamento ai sensi della norma ISO 28580  
*a) for tyres indicate size designation, load-capacity index, speed category symbol, rolling resistance in accordance with ISO 28580 (where applicable)*
- b) per le ruote, indicare dimensioni del cerchione e dati della campanatura  
*b) for wheels indicate rim size(s) and off-set(s)*
- 6.6.1.1. Assi  
*Axels*
- 6.6.1.1.1. Asse 1:  
*Axle 1:* vedere allegato n° 6  
*see annex Nr. 6*
- 6.6.1.1.2. Asse 2:  
*Axle 2:* vedere allegato n° 6  
*see annex Nr. 6*
- 6.6.1.1.3. Asse 3:  
*Axle 3:* vedere allegato n° 6  
*see annex Nr. 6*
- 6.6.1.1.4. Asse 4:  
*Axle 4:* vedere allegato n° 6  
*see annex Nr. 6*
- 6.6.2. Limiti superiori e inferiori del raggio di rotolamento:  
*Upper and lower limits of rolling radii:*
- 6.6.2.1. Asse 1:  
*Axle 1:* vedere allegato n° 6  
*see annex Nr. 6*
- 6.6.2.2. Asse 2:  
*Axle 2:* vedere punto 6.6.2.1.  
*see point 6.6.2.1.*
- 6.6.2.3. Asse 3:  
*Axle 3:* vedere punto 6.6.2.1.  
*see point 6.6.2.1.*
- 6.6.2.4. Asse 4:  
*Axle 4:* vedere punto 6.6.2.1.  
*see point 6.6.2.1.*
- 6.6.3. Pressione/i degli pneumatici raccomandata/e dal costruttore del veicolo:  
*Tyre pressure(s) as recommended by the vehicle manufacturer:*
- 6.6.3.1. 1° asse:  
*1<sup>st</sup> axle:* vedere punto 6.6.2.1.  
*see point 6.6.2.1.*
- 6.6.3.2. 2° asse:  
*2<sup>nd</sup> axle:* vedere punto 6.6.2.1.  
*see point 6.6.2.1.*
- 6.6.3.3. 3° asse:  
*3<sup>rd</sup> axle:* vedere punto 6.6.2.1.  
*see point 6.6.2.1.*
- 6.6.3.4. Asse 4:  
*Axle 4:* vedere punto 6.6.2.1.  
*see point 6.6.2.1.*
- 6.6.5. Breve descrizione dell'eventuale unità di scorta per uso temporaneo:  
*Brief description of temporary-use spare unit, if any:* non ricorre  
*not applicable*



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### 8. FRENI BRAKES

- 8.1. Tipo e caratteristiche dei freni, conformemente al punto 2.6 del Regolamento UNECE 13) con uno schema dimensionale inclusi dati e disegni dei tamburi, dei dischi, dei tubi, marca e tipo delle ganasce/pastiglie e/o guarnizioni, superfici frenanti effettive, raggio dei tamburi, delle ganasce o dei dischi, massa dei tamburi, dei dispositivi di regolazione, delle parti interessate dello/gli asse/i e della sospensione):

*Type and characteristics of the brakes as defined in point 2.6 of Regulation UNECE 13 including details and drawings of the drums, discs, hoses make and type of shoe/pad assemblies and/or linings, effective braking areas, radius of drums, shoes or discs, mass of drums, adjustment devices, relevant parts of the axle(s) and suspension:*

- 1° asse: invariato rispetto al veicolo base, con omologazione:  
E3 13R-11 1819 10 del 31.01.2017  
aggiornata all'estensione: E3 13R-11 1819 12  
del 10.05.2018  
- freno a disco Ø432 mm, spessore 45 mm  
- brake chamber combinato con molla: 24/14" opp. 30/14"  
- guarnizioni freni: Ferodo 4550, Ferodo 3475 F, Galfer G 3358, Textar T 3030, Textar T 3008, Jurid 424, Jurid 539 oppure Pagid 202
- 1<sup>st</sup> axle: unchanged, respect to stage I vehicle, with approval:  
E3 13R-11 1819 10 of 31.01.2007 updated by extension  
E3 13R-11 1819 11 of 16.02.2018  
- disc brake: Ø432 mm, width 45 mm  
- brake chamber combined with spring: 24/14" or 30/14"  
- brake linings: Ferodo 4550, Ferodo 3475 F, Galfer G 3358, Textar T 3030, Textar T 3008, Jurid 424, Jurid 539 oppure Pagid 202
- 2° asse: - pinze Knorr Bremse SN7052 oppure SN7042  
disegno Knorr Bremse n° Z002709 del 03.05.2002  
- freno a disco Ø432 mm, spessore 45 mm  
- area della pastiglia: min 196 cm<sup>2</sup>, spessore 21 mm  
- brake chamber: 12"  
- guarnizioni freni: Ferodo 4550, Ferodo 3475 F, Galfer G 3358, Textar T 3030, Textar T 3008, Jurid 424, Jurid 539 oppure Pagid 202
- 2<sup>nd</sup> axle: - brake pad Knorr Bremse SN7052 or SN7042  
Knorr Bremse drawing No. Z002709 of 03.05.2002  
- disc brake: Ø432 mm, width 45 mm  
- pad area: min 196 cm<sup>2</sup>, width 21 mm  
- brake chamber: 12"  
- brake linings: Ferodo 4550, Ferodo 3475 F, Galfer G 3358, Textar T 3030, Textar T 3008, Jurid 424, Jurid 539 oppure Pagid 202
- 3° asse: invariato rispetto al veicolo base, con omologazione:  
E3 13R-11 1819 10 del 31.01.2017  
aggiornata all'estensione: E3 13R-11 1819 11  
del 16.02.2018  
- freno a disco Ø432 mm, spessore 45 mm  
- brake chamber combinato con molla: 20/24"  
- guarnizioni freni: Ferodo 4550, Ferodo 3475 F, Galfer G 3358, Textar T 3030, Textar T 3008, Jurid 424, Jurid 539 oppure Pagid 202



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3<sup>rd</sup> axle: unchanged, respect to stage I vehicle, with approval:  
E3 13R-11 1819 10 of 31.01.2007 updated by extension  
E3 13R-11 1819 11 of 16.02.2018  
- disc brake: Ø432 mm, width 45 mm  
- brake chamber combined with spring: 20/24"  
- brake linings: Ferodo 4550, Ferodo 3475 F, Galfer G 3358, Textar  
T 3030, Textar T 3008, Jurid 424, Jurid 539 oppure Pagid 202

4° asse: invariato rispetto al veicolo base, con omologazione:  
E3 13R-11 1819 10 del 31.01.2017  
aggiornata all'estensione: E3 13R-11 1819 11  
del 16.02.2018  
- freno a disco Ø432 mm, spessore 45 mm  
- brake chamber: 14" oppure 12"  
- guarnizioni freni: Ferodo 4550, Ferodo 3475 F, Galfer  
G 3358, Textar T 3030, Textar T 3008, Jurid 424,  
Jurid 539 oppure Pagid 202

4<sup>th</sup> axle: unchanged, respect to stage I vehicle, with approval:  
E3 13R-11 1819 10 of 31.01.2007 updated by extension  
E3 13R-11 1819 11 of 16.02.2018  
- disc brake: Ø432 mm, width 45 mm  
- brake chamber: 14" or 12"  
- brake linings: Ferodo 4550, Ferodo 3475 F, Galfer G 3358, Textar  
T 3030, Textar T 3008, Jurid 424, Jurid 539 oppure Pagid 202

- 8.2. Curva di funzionamento, descrizione e/o disegno dei sistemi di frenatura descritti al punto 2.3 del Regolamento UNECE 13, compresi dati e disegni della trasmissione e dei dispositivi di comando:  
*Operating diagram, description and/or drawing of the braking systems described in point 2.3 of Regulation UNECE 13 including details and drawings of the transmission and controls:*
- invariato rispetto al veicolo base, con omologazione:  
E3 13R-11 1819 10 del 31.01.2017  
aggiornata all'estensione: E3 13R-11 1819 12  
del 10.05.2018  
unchanged, respect to stage I vehicle, with approval:  
E3 13R-11 1819 10 of 31.01.2007 updated by extension  
E3 13R-11 1819 11 of 16.02.2018
- 8.2.1. Impianto frenante di servizio:  
*Service braking system:*
- vedere allegato n° 7  
see annex Nr. 7
- 8.2.2. Impianto frenante di soccorso:  
*Secondary braking system:*
- conglobato con il freno di servizio, per sdoppiamento di sezioni  
included with service braking system, for splitting of sections
- 8.2.3. Impianto del freno di stazionamento:  
*Parking braking system:*
- meccanico a molla, agente su: 1° e 3° asse  
trasmissione: pneumatica  
e con comando: a mano  
by the spring-brake actuator of the: axles 1<sup>st</sup> and 3<sup>rd</sup>  
transmission: pneumatic  
and control: hand
- 8.2.4. Eventuali impianti frenanti complementari:  
*Any additional braking system:*
- freno motore con comando indipendente
  - optional rallentatore idraulico
  - obbligo del rallentatore idraulico con equipaggiamento di cambio automatico
  - con rallentatore idraulico per veicoli CNG/LNG
  - sistema ACC (controllo adattativo della velocità)
  - exhaust brake with separate control
  - optional hydraulic retarder
  - hydraulic retarder compulsory with automatic gear box equipment
  - with hydraulic retarder for CNG/LNG vehicles
  - ACC system (adaptive cruise control)
- 8.2.5. Impianto frenante d'emergenza in caso di distacco accidentale del rimorchio:  
*Break-away braking system:*



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- 8.3. Comando e trasmissione degli impianti frenanti del rimorchio in veicoli destinati al traino di un rimorchio:  
- pressione alla condotta dell'automatico:  
- pressione alla condotta del moderabile:  
*Control and transmission of trailer braking systems in vehicles designed to tow a trailer:*  
- reservoir pressure at coupling head:  
- braking pressure at coupling head:
- vedere punto 8.2.1.  
8,5 - 0,3 bar  
8,5 - 0,3 bar  
  
see point 8.1.  
8,5 - 0,3 bar  
8,5 - 0,3 bar
- 8.4. Veicolo è predisposto per il traino di un rimorchio dotato di sistema pneumatico di frenatura di servizio:  
*Vehicle is equipped to tow a trailer with pneumat service brakes:*
- sì  
yes
- 8.5. Sistema antibloccaggio:  
*Anti-lock braking system:*
- sì categoria 1  
yes category 1
- 8.5.1. Per i veicoli muniti di sistemi di frenatura antibloccaggio, descrizione del funzionamento del sistema (compresi eventuali elementi elettronici), curva del bloccaggio elettrico e schema del circuito idraulico o pneumatico:  
*For vehicles with anti-lock braking systems, description of system operation (including any electronic parts), electric block diagram, hydraulic or pneumatic circuit plan:*
- invariato rispetto al veicolo base, con omologazione:  
E3 13R-11 1819 10 del 31.01.2017  
aggiornata all'estensione: E3 13R-11 1819 11 del 16.02.2018  
unchanged, respect to stage I vehicle, with approval:  
E3 13R-11 1819 10 of 31.01.2007 updated by extension  
E3 13R-11 1819 11 of 16.02.2018
- 8.6. Calcoli e curve conformemente al Regolamento UNECE 13 o all'appendice all'allegato 14, se applicabile:  
*Calculation and curves according to UNECE Regulation 13 or to the Appendix to Annex 14 thereto if applicable:*
- non ricorre  
not applicable
- 8.7. Descrizione e/o disegno del sistema di alimentazione di energia, da indicare anche nel caso dei sistemi di frenatura servoassistiti:  
*Description and/or drawing of the energy supply, also to be specified for power-assisted braking systems:*
- compressore monocilindrico (352 cm<sup>3</sup>) oppure bicilindrico (460 - 630 cm<sup>3</sup>), con portata  $\geq 550$  l/min alla velocità del motore di  $1900 \div 2400$  min<sup>-1</sup>  
single-cylinder (352 cm<sup>3</sup>) or twin-cylinder (460 - 630 cm<sup>3</sup>) compressor, with delivery rate  $\geq 550$  l/min, at engine speed  $1900 \div 2400$  min<sup>-1</sup>
- 8.7.1. Nel caso di sistemi ad aria compressa, pressione di esercizio p<sub>2</sub> nel o nei serbatoi:  
*In the case of compressed-air braking systems, working pressure p<sub>2</sub> in the pressure reservoir(s):*
- 10,5 + 0,2 bar oppure / or  
12,5 ± 0,2 bar oppure / or  
11,0 ± 0,2 bar oppure / or  
10,0 ÷ 12,5 bar
- 8.7.2. Nel caso di sistemi di frenatura a depressione, livello iniziale di energia nel o nei serbatoi:  
*In the case of vacuum braking systems, the initial energy level in the reservoir(s):*
- non ricorre  
not applicable
- 8.8. Calcolo del sistema di frenatura: determinazione del rapporto tra la somma delle forze frenanti alla periferia delle ruote e le forze esercitate sul comando del freno:  
*Calculation of the braking system: determination of the ratio between the total braking forces at the circumference of the wheels and the force applied to the braking control:*
- per 2° asse vedere allegato n° 7  
- per gli altri assi, vedere omol.: E3 13R-11 1819 10 del 31.01.2017 aggiornata all'est. E3 13R-11 1819 11 del 16.02.2018  
- for 2<sup>nd</sup> axle see annex Nr. 7  
- for the other axles, see approval: E3 13R-11 1819 10 of 31.01.2017 updated by extension E3 13R-11 1819 11 of 16.02.2018
- 8.9. Breve descrizione dell'impianto frenante ai sensi del punto 1.6 dell'addendum all'appendice 1 dell'allegato IX della direttiva 71/320/CEE):  
*Brief description of the braking systems (according to item 1,6 of the Addendum to Appendix 1 of Annex IX to Directive 71/320/EEC):*
- vedere punto 8.2.1.  
see point 8.2.1.



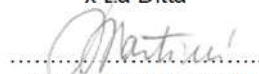
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- 8.10. Se viene richiesta l'esenzione dalle prove di tipo I e/o di tipo II o di tipo III, indicare il numero del verbale conformemente all'appendice 3 dell'allegato 11 al Regolamento UNECE 13:  
*If claiming exemptions from the Type I and/or Type II or Type III tests, state the number of the report in accordance with Appendix 3 of Annex 11 to UNECE Regulation 13:* non ricorre  
*not applicable*
- 8.11. Dati del tipo o dei tipi di sistemi di frenatura elettronica (EBS):  
*Particulars of the type(s) of endurance braking system(s) (EBS):* vedere punto 8.5.1.  
*see point 8.5.1.*

Revisione 0 del 25.06.2018  
*Revision of*

x La Ditta

  
.....  
(ing. Paolo MARTINI)  
**STS SYSTEM TRUCK S.p.A.**  
Via Poisa, 26 - 46048 ROVERBELLA (MN) ITALY  
C.F. 02299770797 - P.IVA: 03117430235  
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Ruolo: Direttore tecnico  
*Position: Technical Director*



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## CHIAVE INTERPRETAZIONE VARIANTI E VERSIONI VARIANTS AND VERSIONS EXPLANATION KEY

| Caratteristiche<br>Characteristics                                                                                                                                              | Descrizione<br>Description                                                           | Tipo<br>Type | Varianti<br>Variants | Versioni<br>Versions |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------|----------------------|----------------------|
| Nome costruttore<br>Manufacturer's company name                                                                                                                                 | Iveco / S.T. System Truck S.p.A.                                                     | ST           |                      |                      |
| Tipo di veicolo della fase I,<br>progettazione e costruzione del<br>telaio, categoria, numero di assi<br>Type of stage I, design and<br>construction, category, number of axles | A260, autotelaio (carro), cat. N3, 4 assi<br>A260, chassis (truck), cat. N3, 4 axles | 2Y3C         |                      |                      |
| Fase di completamento<br>Extent of build                                                                                                                                        | incompleto<br>incomplete                                                             |              | I                    |                      |
|                                                                                                                                                                                 | incompleto X-way<br>incomplete X-way                                                 |              | B                    |                      |
| Numero assi sterzanti<br>Number steering axle                                                                                                                                   | 2 (1° e 2° asse / 1 <sup>st</sup> and 2 <sup>nd</sup> axle)                          |              | A                    |                      |
|                                                                                                                                                                                 | 3 (1°, 2° e 4° asse / 1 <sup>st</sup> , 2 <sup>nd</sup> and 4 <sup>th</sup> axle)    |              | C                    |                      |
| Principio di funzionamento<br>Working principle                                                                                                                                 | accensione spontanea<br>compression ignition                                         |              | S                    |                      |
|                                                                                                                                                                                 | accensione comandata<br>positive ignition                                            |              | C                    |                      |
| Cilindrata<br>Engine capacity                                                                                                                                                   | 7800 cm <sup>3</sup>                                                                 |              |                      | G8                   |
|                                                                                                                                                                                 | 8710 cm <sup>3</sup>                                                                 |              |                      | G9                   |
|                                                                                                                                                                                 | 12900 cm <sup>3</sup>                                                                |              |                      | G3                   |
|                                                                                                                                                                                 | 8710 cm <sup>3</sup>                                                                 |              |                      | 09                   |
|                                                                                                                                                                                 | 11120 cm <sup>3</sup>                                                                |              |                      | 11                   |
|                                                                                                                                                                                 | 12882 cm <sup>3</sup>                                                                |              |                      | 12                   |
| Interasse (1° ÷ 3° asse)<br>Wheelbase (1 <sup>st</sup> ÷ 3 <sup>rd</sup> axle)                                                                                                  | 4200 mm                                                                              |              |                      | CB                   |
|                                                                                                                                                                                 | 4500 mm                                                                              |              |                      | DB                   |
|                                                                                                                                                                                 | 4800 mm                                                                              |              |                      | EB                   |
|                                                                                                                                                                                 | 5100 mm                                                                              |              |                      | FB                   |
|                                                                                                                                                                                 | 5500 mm                                                                              |              |                      | LB                   |
|                                                                                                                                                                                 | 5700 mm                                                                              |              |                      | GB                   |
|                                                                                                                                                                                 | 6050 mm                                                                              |              |                      | HB                   |



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### CHIAVE INTERPRETAZIONE VARIANTI E VERSIONI VARIANTS AND VERSIONS EXPLANATION KEY

| Caratteristiche<br>Characteristics                               | Descrizione<br>Description                      | Tipo<br>Type | Varianti<br>Variants | Versioni<br>Versions |
|------------------------------------------------------------------|-------------------------------------------------|--------------|----------------------|----------------------|
| Direttiva emissioni<br>Directive emission                        | Euro VI C                                       |              |                      | C                    |
|                                                                  | Euro VI C EGR                                   |              |                      | K                    |
| Tipo cabina<br>Cab type                                          | AD                                              |              |                      | D                    |
|                                                                  | AT                                              |              |                      | T                    |
|                                                                  | AS                                              |              |                      | S                    |
| Potenza del motore<br>Engine power                               | 200 kW (CNG)                                    |              |                      | N                    |
|                                                                  | 221 kW (CNG)                                    |              |                      | P                    |
|                                                                  | 243 kW (CNG)                                    |              |                      | Q                    |
|                                                                  | 228 kW                                          |              |                      | Z                    |
|                                                                  | 243 kW                                          |              |                      | A                    |
|                                                                  | 265 kW                                          |              |                      | B                    |
|                                                                  | 294 kW                                          |              |                      | V                    |
|                                                                  | 309 kW                                          |              |                      | C                    |
|                                                                  | 338 kW                                          |              |                      | E                    |
|                                                                  | 353 kW                                          |              |                      | F                    |
|                                                                  | 375 kW                                          |              |                      | R                    |
|                                                                  | 419 kW                                          |              |                      | S                    |
| Tipo 3° asse<br>3 <sup>rd</sup> axle type                        | SR                                              |              |                      | S                    |
|                                                                  | HR                                              |              |                      | H                    |
| Massa massima su 1° asse<br>Maximum mass on 1 <sup>st</sup> axle | 9000 kg                                         |              |                      | 90                   |
|                                                                  | 8600 kg                                         |              |                      | 86                   |
|                                                                  | 8000 kg                                         |              |                      | 80                   |
|                                                                  | 7500 kg                                         |              |                      | 75                   |
|                                                                  | 7100 kg                                         |              |                      | 71                   |
|                                                                  | 6700 kg                                         |              |                      | 67                   |
| Massa massima su 3° asse<br>Maximum mass on 3 <sup>rd</sup> axle | 12000 kg                                        |              |                      | B2                   |
|                                                                  | 11500 kg                                        |              |                      | 11                   |
| 4° asse<br>4 <sup>th</sup> axle                                  | sollevabile / liftable                          |              |                      | A                    |
|                                                                  | sollevabile e sterzante / liftable and steering |              |                      | B                    |



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### CHIAVE INTERPRETAZIONE VARIANTI E VERSIONI VARIANTS AND VERSIONS EXPLANATION KEY

| Caratteristiche<br>Characteristics                                                                                             | Descrizione<br>Description                                                     | Tipo<br>Type | Varianti<br>Variants | Versioni<br>Versions |
|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------|----------------------|----------------------|
| Massa massima su 4° asse<br>Maximum mass on 4 <sup>th</sup> axle                                                               | 8000 kg                                                                        |              |                      | 80                   |
|                                                                                                                                | 7500 kg                                                                        |              |                      | 75                   |
|                                                                                                                                | 7100 kg                                                                        |              |                      | 71                   |
|                                                                                                                                | 6700 kg                                                                        |              |                      | 67                   |
| Uscita gas di scarico<br>Exhaust exit                                                                                          | laterale sinistra / side left                                                  |              |                      | S                    |
|                                                                                                                                | verticale / vertical                                                           |              |                      | V                    |
|                                                                                                                                | centrale / centre                                                              |              |                      | C                    |
| Tipo di cambio<br>Type of gear                                                                                                 | manuale / manual                                                               |              |                      | M                    |
|                                                                                                                                | automatico / automatic                                                         |              |                      | A                    |
| Interasse (2° ÷ 3° e 3° ÷ 4° asse)<br>Wheelbase (2 <sup>nd</sup> ÷ 3 <sup>rd</sup> and 3 <sup>rd</sup> ÷ 4 <sup>th</sup> axle) | 2° ÷ 3°: 1365 mm - 3° ÷ 4°: 1395 mm                                            |              |                      | P                    |
|                                                                                                                                | 2° ÷ 3°: 1320 mm - 3° ÷ 4°: 1395 mm                                            |              |                      | Q                    |
|                                                                                                                                | 2° ÷ 3°: 1410 mm - 3° ÷ 4°: 1395 mm                                            |              |                      | R                    |
| ADR                                                                                                                            | con ADR / with ADR                                                             |              |                      | S                    |
|                                                                                                                                | con ADR classe AT / with ADR Class AT                                          |              |                      | T                    |
|                                                                                                                                | senza ADR / without ADR                                                        |              |                      | N                    |
| Sistema di frenatura<br>Braking system                                                                                         | manuale / manual                                                               |              |                      | F                    |
|                                                                                                                                | EBS, senza rimorchiabile / EBS, no towing vehicle                              |              |                      | N                    |
| Configurazione S.T.<br>S.T. configuration                                                                                      | 2° asse sollevabile / retractable 2 <sup>nd</sup> axle                         |              |                      | A                    |
|                                                                                                                                | 2° asse non sollevabile (con o senza rallenatore Telma AD72-00)                |              |                      |                      |
|                                                                                                                                | not retractable 2 <sup>nd</sup> axle (with or without Telma AD 72-00 retarder) |              |                      | B                    |



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## COMBINAZIONI POSSIBILI PERMISSIBLE COMBINATION

Varianti

Variants

Versioni

Versions

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| G | 8 | CB | C | D | P | S | 75 | B2 | B | 80 | S | M | P | N | F | A |
|   |   | DB |   | T | Q |   | 80 |    |   |    | V |   | Q |   | N | B |
|   |   | EB |   |   |   |   | 90 |    |   |    | C |   | R |   |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| G | 8 | CB | C | D | P | S | 75 | 11 | B | 75 | S | M | P | N | F | A |
|   |   | DB |   | T | Q |   | 90 |    |   |    | V |   | Q |   | N | B |
|   |   | EB |   |   |   |   |    |    |   |    | C |   | R |   |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| G | 8 | CB | C | D | P | S | 71 | 11 | B | 71 | S | M | P | N | F | A |
|   |   | DB |   | T | Q |   |    |    |   |    | V |   | Q |   | N | B |
|   |   | EB |   |   |   |   |    |    |   |    | C |   | R |   |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| G | 8 | CB | C | D | N | S | 75 | B2 | B | 80 | S | M | P | N | N | A |
|   |   | DB |   | T |   |   | 80 |    |   |    | V | A | Q |   |   | B |
|   |   | EB |   |   |   |   | 90 |    |   |    | C |   | R |   |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| G | 8 | CB | C | D | N | S | 75 | 11 | B | 75 | S | M | P | N | N | A |
|   |   | DB |   | T |   |   | 90 |    |   |    | V | A | Q |   |   | B |
|   |   | EB |   |   |   |   |    |    |   |    | C |   | R |   |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| G | 8 | CB | C | D | N | S | 71 | 11 | B | 71 | S | M | P | N | N | A |
|   |   | DB |   | T |   |   |    |    |   |    | V | A | Q |   |   | B |
|   |   | EB |   |   |   |   |    |    |   |    | C |   | R |   |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| G | 8 | CB | C | D | N | S | 75 | B2 | B | 80 | S | A | P | N | N | A |
|   |   | DB |   | T | P |   | 80 |    |   |    | V |   | Q |   |   | B |
|   |   | EB |   |   | Q |   | 90 |    |   |    | C |   | R |   |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| G | 8 | CB | C | D | N | S | 75 | 11 | B | 75 | S | A | P | N | N | A |
|   |   | DB |   | T | P |   | 90 |    |   |    | V |   | Q |   |   | B |
|   |   | EB |   |   | Q |   |    |    |   |    | C |   | R |   |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| G | 8 | CB | C | D | N | S | 71 | 11 | B | 71 | S | A | P | N | N | A |
|   |   | DB |   | T | P |   |    |    |   |    | V |   | Q |   |   | B |
|   |   | EB |   |   | Q |   |    |    |   |    | C |   | R |   |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| G | 8 | CB | C | D | N | S | 90 | B2 | B | 75 | S | M | P | N | N | A |
|   |   | DB |   | T |   |   |    |    |   |    | V | A | Q |   |   | B |
|   |   | EB |   |   |   |   |    |    |   |    | C |   | R |   |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| G | 8 | CB | C | D | P | S | 90 | B2 | B | 75 | S | M | P | N | F | A |
|   |   | DB |   | T | Q |   |    |    |   |    | V | A | Q |   | N | B |
|   |   | EB |   |   |   |   |    |    |   |    | C |   | R |   |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 0 | 9 | CB | C | D | Z | S | 75 | B2 | B | 80 | S | M | P | S | F | A |
|   |   | DB |   | T | A |   | 80 |    |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   | B |   | 86 |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   | V |   | 90 |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 0 | 9 | CB | C | D | Z | S | 75 | B2 | B | 75 | S | M | P | S | F | A |
|   |   | DB |   | T | A |   | 80 | 11 |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   | B |   | 86 |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   | V |   | 90 |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 0 | 9 | CB | C | D | Z | S | 71 | B2 | B | 71 | S | M | P | S | F | A |
|   |   | DB |   | T | A |   |    | 11 |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   | B |   |    |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   | V |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 0 | 9 | CB | C | D | Z | S | 67 | B2 | B | 67 | S | M | P | S | F | A |
|   |   | DB |   | T | A |   |    | 11 |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   | B |   |    |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   | V |   |    |    |   |    |   |   |   |   |   |   |
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| 0 | 9 | CB | C | D | Z | S | 75 | B2 | B | 80 | S | A | P | S | F | A |
|   |   | DB |   | T | A |   | 80 |    |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   | B |   | 86 |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   | 90 |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 0 | 9 | CB | C | D | Z | S | 75 | B2 | B | 75 | S | A | P | S | F | A |
|   |   | DB |   | T | A |   | 80 | 11 |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   | B |   | 86 |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   | 90 |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 0 | 9 | CB | C | D | Z | S | 67 | B2 | B | 67 | S | A | P | S | F | A |
|   |   | DB |   | T | A |   |    | 11 |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   | B |   |    |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 0 | 9 | CB | C | D | Z | S | 71 | B2 | A | 71 | S | A | P | S | F | A |
|   |   | DB |   | T | A |   |    | 11 | B |    | V |   | Q | T | N | B |
|   |   | EB |   |   | B |   |    |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 0 | 9 | CB | C | D | Z | S | 75 | B2 | A | 80 | S | M | P | S | F | A |
|   |   | DB |   | T | A |   | 80 |    |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   | B |   | 86 |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   | V |   | 90 |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 0 | 9 | CB | C | D | Z | S | 75 | B2 | A | 75 | S | M | P | S | F | A |
|   |   | DB |   | T | A |   | 80 | 11 |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   | B |   | 86 |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   | V |   | 90 |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 0 | 9 | CB | C | D | Z | S | 71 | B2 | A | 71 | S | M | P | S | F | A |
|   |   | DB |   | T | A |   |    | 11 |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   | B |   |    |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   | V |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 0 | 9 | CB | C | D | Z | S | 67 | B2 | A | 67 | S | M | P | S | F | A |
|   |   | DB |   | T | A |   |    | 11 |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   | B |   |    |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   | V |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 0 | 9 | CB | C | D | Z | S | 75 | B2 | A | 80 | S | A | P | S | F | A |
|   |   | DB |   | T | A |   | 80 |    |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   | B |   | 86 |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   | 90 |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 0 | 9 | CB | C | D | Z | S | 75 | B2 | A | 75 | S | A | P | S | F | A |
|   |   | DB |   | T | A |   | 80 | 11 |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   | B |   | 86 |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   | 90 |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 0 | 9 | CB | C | D | Z | S | 71 | B2 | A | 71 | S | A | P | S | F | A |
|   |   | DB |   | T | A |   |    | 11 |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   | B |   |    |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 0 | 9 | CB | C | D | Z | S | 67 | B2 | A | 67 | S | A | P | S | F | A |
|   |   | DB |   | T | A |   |    | 11 |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   | B |   |    |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 1 | 1 | CB | C | D | C | S | 75 | B2 | B | 80 | S | M | P | S | F | A |
|   |   | DB |   | T | E |   | 80 |    |   |    | V |   | Q | T | N | B |
|   |   | EB |   | S | F |   | 86 |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   | 90 |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 1 | 1 | CB | C | D | C | S | 75 | B2 | B | 75 | S | M | P | S | F | A |
|   |   | DB |   | T | E |   | 80 | 11 |   |    | V |   | Q | T | N | B |
|   |   | EB |   | S | F |   | 86 |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   | 90 |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 1 | 1 | CB | C | D | C | S | 71 | B2 | B | 71 | S | M | P | S | F | A |
|   |   | DB |   | T | E |   |    | 11 |   |    | V |   | Q | T | N | B |
|   |   | EB |   | S | F |   |    |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 1 | 1 | CB | C | D | C | S | 67 | B2 | B | 67 | S | M | P | S | F | A |
|   |   | DB |   | T | E |   |    | 11 |   |    | V |   | Q | T | N | B |
|   |   | EB |   | S | F |   |    |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 1 | 1 | CB | C | S | C | S | 80 | B2 | B | 67 | S | M | P | S | F | A |
|   |   | DB |   |   | E |   |    |    |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   | F |   |    |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 1 | 1 | CB | K | D | F | S | 75 | B2 | B | 80 | S | M | P | S | F | A |
|   |   | DB |   | T |   |   | 80 |    |   |    | V |   | Q | T | N | B |
|   |   | EB |   | S |   |   | 86 |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   | 90 |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 1 | 1 | CB | K | D | F | S | 75 | B2 | B | 75 | S | M | P | S | F | A |
|   |   | DB |   | T |   |   | 80 | 11 |   |    | V |   | Q | T | N | B |
|   |   | EB |   | S |   |   | 86 |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   | 90 |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 1 | 1 | CB | K | D | F | S | 71 | B2 | B | 71 | S | M | P | S | F | A |
|   |   | DB |   | T |   |   |    | 11 |   |    | V |   | Q | T | N | B |
|   |   | EB |   | S |   |   |    |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 1 | 1 | CB | K | D | F | S | 67 | B2 | B | 67 | S | M | P | S | F | A |
|   |   | DB |   | T |   |   |    | 11 |   |    | V |   | Q | T | N | B |
|   |   | EB |   | S |   |   |    |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 1 | 1 | CB | K | S | F | S | 80 | B2 | B | 67 | S | M | P | S | F | A |
|   |   | DB |   |   |   |   |    |    |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   |   |   |    |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 1 | 1 | CB | C | D | C | S | 75 | B2 | A | 80 | S | M | P | S | F | A |
|   |   | DB |   | T | E |   | 80 |    |   |    | V |   | Q | T | N | B |
|   |   | EB |   | S | F |   | 86 |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   | 90 |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 1 | 1 | CB | C | D | C | S | 75 | B2 | A | 75 | S | M | P | S | F | A |
|   |   | DB |   | T | E |   | 80 | 11 |   |    | V |   | Q | T | N | B |
|   |   | EB |   | S | F |   | 86 |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   | 90 |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 1 | 1 | CB | C | D | C | S | 71 | B2 | A | 71 | S | M | P | S | F | A |
|   |   | DB |   | T | E |   |    | 11 |   |    | V |   | Q | T | N | B |
|   |   | EB |   | S | F |   |    |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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|---|---|----|---|---|---|---|----|----|---|----|---|---|---|---|---|---|
| 1 | 1 | CB | C | D | C | S | 67 | B2 | A | 67 | S | M | P | S | F | A |
|   |   | DB |   | T | E |   |    | 11 |   |    | V |   | Q | T | N | B |
|   |   | EB |   | S | F |   |    |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 1 | 1 | CB | C | S | C | S | 80 | B2 | A | 67 | S | M | P | S | F | A |
|   |   | DB |   |   | E |   |    |    |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   | F |   |    |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 1 | 1 | CB | K | D | F | S | 75 | B2 | A | 80 | S | M | P | S | F | A |
|   |   | DB |   | T |   |   | 80 |    |   |    | V |   | Q | T | N | B |
|   |   | EB |   | S |   |   | 86 |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   | 90 |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 1 | 1 | CB | K | D | F | S | 75 | B2 | A | 75 | S | M | P | S | F | A |
|   |   | DB |   | T |   |   | 80 | 11 |   |    | V |   | Q | T | N | B |
|   |   | EB |   | S |   |   | 86 |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   | 90 |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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|---|---|----|---|---|---|---|----|----|---|----|---|---|---|---|---|---|
| 1 | 1 | CB | K | D | F | S | 71 | B2 | A | 71 | S | M | P | S | F | A |
|   |   | DB |   | T |   |   |    | 11 |   |    | V |   | Q | T | N | B |
|   |   | EB |   | S |   |   |    |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 1 | 1 | CB | K | D | F | S | 67 | B2 | A | 67 | S | M | P | S | F | A |
|   |   | DB |   | T |   |   |    | 11 |   |    | V |   | Q | T | N | B |
|   |   | EB |   | S |   |   |    |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 1 | 1 | CB | K | S | F | S | 80 | B2 | A | 67 | S | M | P | S | F | A |
|   |   | DB |   |   |   |   |    |    |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   |   |   |    |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 1 | 2 | CB | C | S | R | S | 75 | B2 | B | 80 | S | M | P | S | F | A |
|   |   | DB |   |   | S |   | 80 |    |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   |   |   | 86 |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   | 90 |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 1 | 2 | CB | C | S | R | S | 75 | B2 | B | 75 | S | M | P | S | F | A |
|   |   | DB |   |   | S |   | 80 | 11 |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   |   |   | 86 |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   | 90 |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 1 | 2 | CB | C | S | R | S | 71 | B2 | B | 71 | S | M | P | S | F | A |
|   |   | DB |   |   | S |   |    | 11 |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   |   |   |    |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 1 | 2 | CB | C | S | R | S | 67 | B2 | B | 67 | S | M | P | S | F | A |
|   |   | DB |   |   | S |   |    | 11 |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   |   |   |    |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 1 | 2 | CB | K | S | S | S | 75 | B2 | B | 80 | S | M | P | S | F | A |
|   |   | DB |   |   |   |   | 80 |    |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   |   |   | 86 |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   | 90 |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 1 | 2 | CB | K | S | S | S | 75 | B2 | B | 75 | S | M | P | S | F | A |
|   |   | DB |   |   |   |   | 80 | 11 |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   |   |   | 86 |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   | 90 |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 1 | 2 | CB | K | S | S | S | 71 | B2 | B | 71 | S | M | P | S | F | A |
|   |   | DB |   |   |   |   |    | 11 |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   |   |   |    |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 1 | 2 | CB | K | S | S | S | 67 | B2 | B | 67 | S | M | P | S | F | A |
|   |   | DB |   |   |   |   |    | 11 |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   |   |   |    |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 1 | 2 | CB | C | S | R | S | 80 | B2 | B | 67 | S | M | P | S | F | A |
|   |   | DB |   |   | S |   |    |    |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   |   |   |    |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 1 | 2 | CB | K | S | S | S | 80 | B2 | B | 67 | S | M | P | S | F | A |
|   |   | DB |   |   |   |   |    |    |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   |   |   |    |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 1 | 2 | CB | C | S | R | S | 75 | B2 | A | 80 | S | M | P | S | F | A |
|   |   | DB |   |   |   |   | 80 |    |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   |   |   | 86 |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   | 90 |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 1 | 2 | CB | C | S | R | S | 75 | B2 | A | 75 | S | M | P | S | F | A |
|   |   | DB |   |   |   |   | 80 | 11 |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   |   |   | 86 |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   | 90 |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 1 | 2 | CB | C | S | R | S | 71 | B2 | A | 71 | S | M | P | S | F | A |
|   |   | DB |   |   |   |   |    | 11 |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   |   |   |    |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 1 | 2 | CB | C | S | R | S | 67 | B2 | A | 67 | S | M | P | S | F | A |
|   |   | DB |   |   |   |   |    | 11 |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   |   |   |    |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 1 | 2 | CB | C | S | S | S | 75 | B2 | A | 80 | S | M | P | S | F | A |
|   |   | DB |   |   |   |   | 80 |    |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   |   |   | 86 |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   | 90 |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 1 | 2 | CB | C | S | S | S | 75 | B2 | A | 75 | S | M | P | S | F | A |
|   |   | DB |   |   |   |   | 80 | 11 |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   |   |   | 86 |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   | 90 |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 1 | 2 | CB | C | S | S | S | 71 | B2 | A | 71 | S | M | P | S | F | A |
|   |   | DB | K |   |   |   |    | 11 |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   |   |   |    |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 1 | 2 | CB | C | S | S | S | 67 | B2 | A | 67 | S | M | P | S | F | A |
|   |   | DB | K |   |   |   |    | 11 |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   |   |   |    |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 1 | 2 | CB | K | S | S | S | 75 | B2 | A | 80 | S | M | P | S | F | A |
|   |   | DB |   |   |   |   | 80 |    |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   |   |   | 86 |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   | 90 |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 1 | 2 | CB | K | S | S | S | 75 | B2 | A | 75 | S | M | P | S | F | A |
|   |   | DB |   |   |   |   | 80 | 11 |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   |   |   | 86 |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   | 90 |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 1 | 2 | CB | C | S | R | S | 80 | B2 | A | 67 | S | M | P | S | F | A |
|   |   | DB |   |   | S |   |    |    |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   |   |   |    |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 1 | 2 | CB | K | S | S | S | 80 | B2 | A | 67 | S | M | P | S | F | A |
|   |   | DB |   |   |   |   |    |    |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   |   |   |    |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 0 | 9 | CB | C | D | Z | S | 75 | B2 | B | 75 | S | M | P | S | F | A |
|   |   | DB |   | T | A |   | 90 |    |   | 80 | V |   | Q | T | N | B |
|   |   | EB |   |   | B |   |    |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   | V |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 0 | 9 | CB | C | D | Z | S | 80 | B2 | B | 75 | S | M | P | S | F | A |
|   |   | DB |   | T | A |   |    |    |   | 80 | V |   | Q | T | N | B |
|   |   | EB |   |   | B |   |    |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   | V |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 0 | 9 | CB | C | D | B | H | 75 | B2 | B | 75 | S | M | P | S | F | A |
|   |   | DB |   | T | V |   | 80 |    |   | 80 | V |   | Q | T | N | B |
|   |   | EB |   |   |   |   | 90 |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 0 | 9 | CB | C | D | Z | S | 75 | B2 | B | 75 | S | A | P | S | F | A |
|   |   | DB |   | T | A |   | 80 |    |   | 80 | V |   | Q | T | N | B |
|   |   | EB |   |   | B |   | 90 |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 0 | 9 | CB | C | D | B | H | 75 | B2 | B | 75 | S | A | P | S | F | A |
|   |   | DB |   | T |   |   | 80 |    |   | 80 | V |   | Q | T | N | B |
|   |   | EB |   |   |   |   | 90 |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | HB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |

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| 1 | 1 | CB | C | D | C | S | 75 | B2 | B | 75 | S | M | P | S | F | A |
|   |   | DB |   | T | E | H | 80 |    |   | 80 | V |   | Q | T | N | B |
|   |   | EB |   | S | F |   | 90 |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| 1 | 1 | CB | K | D | F | S | 75 | B2 | B | 75 | S | M | P | S | F | A |
|   |   | DB |   | T |   | H | 80 |    |   | 80 | V |   | Q | T | N | B |
|   |   | EB |   | S |   |   | 90 |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | HB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |

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| 1 | 2 | CB | C | S | R | S | 75 | B2 | B | 75 | S | M | P | S | F | A |
|   |   | DB |   |   | S | H | 80 |    |   | 80 | V |   | Q | T | N | B |
|   |   | EB |   |   |   |   | 90 |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | HB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |

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| 1 | 2 | CB | K | S | S | S | 75 | B2 | B | 75 | S | M | P | S | F | A |
|   |   | DB |   |   |   | H | 80 |    |   | 80 | V |   | Q | T | N | B |
|   |   | EB |   |   |   |   | 90 |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | HB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |

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| G | 9 | FB | C | D | V | S | 75 | B2 | B | 80 | S | M | P | S | F | A |
|   |   | LB |   | T |   |   | 80 |    |   |    | V |   | Q | T | N | B |
|   |   | GB |   |   |   |   | 90 |    |   |    | C |   | R | N |   |   |
|   |   | HB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |

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| G | 3 | CB | C | S | C | S | 75 | B2 | B | 75 | S | M | P | S | F | A |
|   |   | DB |   |   | E |   |    | 11 |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   |   |   |    |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | HB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |

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| G | 3 | CB | C | S | C | S | 75 | B2 | B | 80 | S | M | P | S | F | A |
|   |   | DB |   |   | E |   | 90 |    |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   |   |   |    |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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| G | 3 | CB | C | S | C | S | 80 | B2 | B | 75 | S | M | P | S | F | A |
|   |   | DB |   |   | E |   |    |    |   |    | V |   | Q | T | N | B |
|   |   | EB |   |   |   |   |    |    |   |    | C |   | R | N |   |   |
|   |   | FB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
|   |   | GB |   |   |   |   |    |    |   |    |   |   |   |   |   |   |
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of

| Punto<br>Item | Variante<br>Variant | Versione<br>Version   | Descrizione<br>Description                                                                               |
|---------------|---------------------|-----------------------|----------------------------------------------------------------------------------------------------------|
| 1.1.          | I??                 | ??CB?S????????????? ? | 55.01.03.0031 del / of 24.11.2015 rev.3                                                                  |
|               | I??                 | ??CB?D????????????? ? | 55.01.03.0032 del / of 12.01.2015 rev.2                                                                  |
|               | I??                 | ??CB?T????????????? ? | 55.01.03.0032 del / of 12.01.2015 rev.2                                                                  |
|               | I??                 | ??DB?S????????????? ? | 55.01.03.0033 del / of 22.04.2015 rev.3                                                                  |
|               | I??                 | ??DB?D????????????? ? | 55.01.03.0034 del / of 22.04.2015 rev.3                                                                  |
|               | I??                 | ??DB?T????????????? ? | 55.01.03.0034 del / of 22.04.2015 rev.3                                                                  |
|               | I??                 | ??EB?S????????????? ? | 55.01.03.0035 del / of 12.01.2015 rev.2                                                                  |
|               | I??                 | ??EB?D????????????? ? | 55.01.03.0036 del / of 12.01.2015 rev.2                                                                  |
|               | I??                 | ??EB?T????????????? ? | 55.01.03.0036 del / of 12.01.2015 rev.2                                                                  |
|               | I??                 | ??FB?S????????????? ? | 55.01.03.0037 del / of 12.01.2015 rev.2                                                                  |
|               | I??                 | ??FB?D????????????? ? | 55.01.03.0038 del / of 12.01.2015 rev.2                                                                  |
|               | I??                 | ??FB?T????????????? ? | 55.01.03.0038 del / of 12.01.2015 rev.2                                                                  |
|               | I??                 | ??LB?D????????????? ? | 55.01.03.0126 del / of 19.07.2018 rev.0                                                                  |
|               | I??                 | ??LB?T????????????? ? | 55.01.03.0126 del / of 19.07.2018 rev.0                                                                  |
|               | I??                 | ??GB?S????????????? ? | 55.01.03.0039 del / of 12.01.2015 rev.2                                                                  |
|               | I??                 | ??GB?D????????????? ? | 55.01.03.0040 del / of 12.01.2015 rev.2                                                                  |
|               | I??                 | ??GB?T????????????? ? | 55.01.03.0040 del / of 12.01.2015 rev.2                                                                  |
|               | I??                 | ??HB?S????????????? ? | 55.01.03.0041 del / of 12.01.2015 rev.2                                                                  |
|               | I??                 | ??HB?D????????????? ? | 55.01.03.0042 del / of 12.01.2015 rev.2                                                                  |
|               | I??                 | ??HB?T????????????? ? | 55.01.03.0042 del / of 12.01.2015 rev.2                                                                  |
|               | B??                 | ??CB?S????????????? ? | 55.01.03.0113 del / of 16.05.2018 rev.0                                                                  |
|               | B??                 | ??CB?D????????????? ? | 55.01.03.0114 del / of 16.05.2018 rev.0                                                                  |
|               | B??                 | ??CB?T????????????? ? | 55.01.03.0114 del / of 16.05.2018 rev.0                                                                  |
|               | B??                 | ??DB?S????????????? ? | 55.01.03.0115 del / of 16.05.2018 rev.0                                                                  |
|               | B??                 | ??DB?D????????????? ? | 55.01.03.0116 del / of 16.05.2018 rev.0                                                                  |
|               | B??                 | ??DB?T????????????? ? | 55.01.03.0116 del / of 16.05.2018 rev.0                                                                  |
|               | B??                 | ??EB?S????????????? ? | 55.01.03.0117 del / of 16.05.2018 rev.0                                                                  |
|               | B??                 | ??EB?D????????????? ? | 55.01.03.0118 del / of 16.05.2018 rev.0                                                                  |
|               | B??                 | ??EB?T????????????? ? | 55.01.03.0118 del / of 16.05.2018 rev.0                                                                  |
|               | B??                 | ??FB?S????????????? ? | 55.01.03.0119 del / of 16.05.2018 rev.0                                                                  |
|               | B??                 | ??FB?D????????????? ? | 55.01.03.0120 del / of 16.05.2018 rev.0                                                                  |
|               | B??                 | ??FB?T????????????? ? | 55.01.03.0120 del / of 16.05.2018 rev.0                                                                  |
|               | B??                 | ??GB?S????????????? ? | 55.01.03.0121 del / of 16.05.2018 rev.0                                                                  |
|               | B??                 | ??GB?D????????????? ? | 55.01.03.0122 del / of 16.05.2018 rev.0                                                                  |
|               | B??                 | ??GB?T????????????? ? | 55.01.03.0122 del / of 16.05.2018 rev.0                                                                  |
|               | B??                 | ??HB?S????????????? ? | 55.01.03.0123 del / of 16.05.2018 rev.0                                                                  |
|               | B??                 | ??HB?D????????????? ? | 55.01.03.0124 del / of 16.05.2018 rev.0                                                                  |
|               | B??                 | ??HB?T????????????? ? | 55.01.03.0124 del / of 16.05.2018 rev.0                                                                  |
| 1.3.3.        | ???                 | ????????????????? ?   | 1 asse,<br>axle, 3° asse, interconnessione meccanica<br>3 <sup>rd</sup> axle, mechanical interconnection |
|               |                     | oppure / or           | 2 assi,<br>axles, { 1° asse, trasmissione idraulica<br>1 <sup>st</sup> axle, hydraulic trasmission       |
|               |                     |                       | { 3° asse, interconnessione meccanica<br>3 <sup>rd</sup> axle, mechanical interconnection                |



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| Punto<br>Item | Variant<br>Variant | Versione<br>Version    | Descrizione<br>Description                             |                                                        |                                                        |                                 |
|---------------|--------------------|------------------------|--------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|---------------------------------|
|               |                    |                        | 1° ÷ 2° asse<br>1 <sup>st</sup> ÷ 2 <sup>nd</sup> axle | 2° ÷ 3° asse<br>2 <sup>nd</sup> ÷ 3 <sup>rd</sup> axle | 3° ÷ 4° asse<br>3 <sup>rd</sup> ÷ 4 <sup>th</sup> axle |                                 |
| 2.1.2.1       | ???                | ??CB????????????P?? ?  | 2835 mm                                                | 1365 mm                                                | 1395 mm                                                |                                 |
|               | ???                | ??CB????????????Q?? ?  | 2880 mm                                                | 1320 mm                                                | 1395 mm                                                |                                 |
|               | ???                | ??CB????????????R?? ?  | 2790 mm                                                | 1410 mm                                                | 1395 mm                                                |                                 |
|               | ???                | ??DB????????????P?? ?  | 3135 mm                                                | 1365 mm                                                | 1395 mm                                                |                                 |
|               | ???                | ??DB????????????Q?? ?  | 3180 mm                                                | 1320 mm                                                | 1395 mm                                                |                                 |
|               | ???                | ??DB????????????R?? ?  | 3090 mm                                                | 1410 mm                                                | 1395 mm                                                |                                 |
|               | ???                | ??EB????????????P?? ?  | 3435 mm                                                | 1365 mm                                                | 1395 mm                                                |                                 |
|               | ???                | ??EB????????????Q?? ?  | 3480 mm                                                | 1320 mm                                                | 1395 mm                                                |                                 |
|               | ???                | ??EB????????????R?? ?  | 3390 mm                                                | 1410 mm                                                | 1395 mm                                                |                                 |
|               | ???                | ??FB????????????P?? ?  | 3735 mm                                                | 1365 mm                                                | 1395 mm                                                |                                 |
|               | ???                | ??FB????????????Q?? ?  | 3780 mm                                                | 1320 mm                                                | 1395 mm                                                |                                 |
|               | ???                | ??FB????????????R?? ?  | 3690 mm                                                | 1410 mm                                                | 1395 mm                                                |                                 |
|               | ???                | ??LB????????????P?? ?  | 4135 mm                                                | 1365 mm                                                | 1395 mm                                                |                                 |
|               | ???                | ??LB????????????Q?? ?  | 4180 mm                                                | 1320 mm                                                | 1395 mm                                                |                                 |
|               | ???                | ??LB????????????R?? ?  | 4090 mm                                                | 1410 mm                                                | 1395 mm                                                |                                 |
|               | ???                | ??GB????????????P?? ?  | 4335 mm                                                | 1365 mm                                                | 1395 mm                                                |                                 |
|               | ???                | ??GB????????????Q?? ?  | 4380 mm                                                | 1320 mm                                                | 1395 mm                                                |                                 |
|               | ???                | ??GB????????????R?? ?  | 4290 mm                                                | 1410 mm                                                | 1395 mm                                                |                                 |
|               | ???                | ??HB????????????P?? ?  | 4685 mm                                                | 1365 mm                                                | 1395 mm                                                |                                 |
|               | ???                | ??HB????????????Q?? ?  | 4730 mm                                                | 1320 mm                                                | 1395 mm                                                |                                 |
|               | ???                | ??HB????????????R?? ?  | 4640 mm                                                | 1410 mm                                                | 1395 mm                                                |                                 |
|               |                    |                        | 1° ÷ 4° asse<br>1 <sup>st</sup> ÷ 4 <sup>th</sup> axle |                                                        |                                                        |                                 |
| 2.1.2.2.      | ???                | ??CB???????????????? ? | 5595 mm                                                |                                                        |                                                        |                                 |
|               | ???                | ??DB???????????????? ? | 5895 mm                                                |                                                        |                                                        |                                 |
|               | ???                | ??EB???????????????? ? | 6195 mm                                                |                                                        |                                                        |                                 |
|               | ???                | ??FB???????????????? ? | 6495 mm                                                |                                                        |                                                        |                                 |
|               | ???                | ??LB???????????????? ? | 6895 mm                                                |                                                        |                                                        |                                 |
|               | ???                | ??GB???????????????? ? | 7095 mm                                                |                                                        |                                                        |                                 |
| 2.3.1.        | ???                | ??HB???????????????? ? | 7445 mm                                                |                                                        |                                                        |                                 |
|               | ???                | ??HB???????????????? ? |                                                        |                                                        |                                                        |                                 |
|               |                    |                        | 1° asse<br>1 <sup>st</sup> axle                        | 2° asse<br>2 <sup>nd</sup> axle                        | 3° asse<br>3 <sup>rd</sup> axle                        | 4° asse<br>4 <sup>th</sup> axle |
| 2.3.1.        | ?A?                | ???????????????????? ? | 2040 ÷ 2125                                            | 2038 ÷ 2060                                            | ---                                                    | ---                             |
|               | ?C?                | ???????????????????? ? | 2040 ÷ 2125                                            | 2038 ÷ 2060                                            | ---                                                    | 2021 mm                         |
| 2.3.2.        | ?A?                | ???????????????????? ? | ---                                                    | ---                                                    | 1820                                                   | 2021 mm                         |
|               | ?C?                | ???????????????????? ? | ---                                                    | ---                                                    | 1820                                                   | ---                             |
| 2.7.          | I??                | ???????????????????? ? | 9670 kg                                                |                                                        |                                                        |                                 |
|               | B??                | ???????????????????? ? | 10430 kg                                               |                                                        |                                                        |                                 |
|               |                    |                        | 1°                                                     | 2°                                                     | 3°                                                     | 4°                              |
| 2.7.1.        | I??                | ???????????????????? ? | 4720                                                   | 1420                                                   | 2180                                                   | 1350 kg                         |
|               | B??                | ???????????????????? ? | 5160                                                   | 1420                                                   | 2430                                                   | 1420 kg                         |
|               |                    |                        | 1°                                                     | 2°                                                     | 3°                                                     | 4°                              |
| 2.9.          | ???                | ????????86B2?80???? ?  | 8600                                                   | 7500                                                   | 12000                                                  | 8000 kg                         |
|               | ???                | ????????86B2?75???? ?  | 8600                                                   | 7000                                                   | 12000                                                  | 7500 kg                         |
|               | ???                | ????????80B2?80???? ?  | 8000                                                   | 7500                                                   | 12000                                                  | 8000 kg                         |
|               | ???                | ????????80B2?75???? ?  | 8000                                                   | 7000                                                   | 12000                                                  | 7500 kg                         |
|               | ???                | ????????80B2?67???? ?  | 8000                                                   | 6300                                                   | 12000                                                  | 6700 kg                         |
|               | ???                | ????????75B2?80???? ?  | 7500                                                   | 7500                                                   | 12000                                                  | 8000 kg                         |
|               | ???                | ????????75B2?75???? ?  | 7500                                                   | 7000                                                   | 12000                                                  | 7500 kg                         |
|               | ???                | ????????67B2?67???? ?  | 6700                                                   | 6300                                                   | 12000                                                  | 6700 kg                         |
|               | ???                | ????????71B2?71???? ?  | 7100                                                   | 6700                                                   | 12000                                                  | 7100 kg                         |
|               | ???                | ????????8611?75???? ?  | 8600                                                   | 7000                                                   | 11500                                                  | 7500 kg                         |
|               | ???                | ????????8011?75???? ?  | 8000                                                   | 7000                                                   | 11500                                                  | 7500 kg                         |
|               | ???                | ????????8011?75???? ?  | 8000                                                   | 7000                                                   | 11500                                                  | 7500 kg                         |



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| Punto<br>Item | Variante<br>Variant | Versione<br>Version    | Descrizione<br>Description            |      |       |       |       |  |
|---------------|---------------------|------------------------|---------------------------------------|------|-------|-------|-------|--|
|               | ???                 | ????????7511?75???? ?  | 7500                                  | 7000 | 11500 | 7500  | kg    |  |
|               | ???                 | ????????6711?67???? ?  | 6700                                  | 6300 | 11500 | 6700  | kg    |  |
|               | ???                 | ????????7111?71???? ?  | 7100                                  | 6700 | 11500 | 7100  | kg    |  |
|               | ???                 | ????????9011?75???? ?  | 9000                                  | 7000 | 11500 | 7500  | kg    |  |
|               | ???                 | ????????90B2?75???? ?  | 9000                                  | 7000 | 12000 | 7500  | kg    |  |
|               | ???                 | ????????90B2?80???? ?  | 9000                                  | 7500 | 12000 | 8000  | kg    |  |
|               |                     |                        | T <sub>post</sub> / T <sub>rear</sub> |      |       |       |       |  |
| 2.10.         | ???                 | ????????86B2?80???? ?  | 27000                                 | kg   |       |       |       |  |
|               | ???                 | ????????86B2?75???? ?  | 26500                                 | kg   |       |       |       |  |
|               | ???                 | ????????80B2?80???? ?  | 27000                                 | kg   |       |       |       |  |
|               | ???                 | ????????80B2?75???? ?  | 26500                                 | kg   |       |       |       |  |
|               | ???                 | ????????80B2?67???? ?  | 25000                                 | kg   |       |       |       |  |
|               | ???                 | ????????75B2?80???? ?  | 27000                                 | kg   |       |       |       |  |
|               | ???                 | ????????75B2?75???? ?  | 26500                                 | kg   |       |       |       |  |
|               | ???                 | ????????67B2?67???? ?  | 25000                                 | kg   |       |       |       |  |
|               | ???                 | ????????71B2?71???? ?  | 25800                                 | kg   |       |       |       |  |
|               | ???                 | ????????8611?75???? ?  | 26000                                 | kg   |       |       |       |  |
|               | ???                 | ????????8011?75???? ?  | 26000                                 | kg   |       |       |       |  |
|               | ???                 | ????????7511?75???? ?  | 26000                                 | kg   |       |       |       |  |
|               | ???                 | ????????6711?67???? ?  | 24500                                 | kg   |       |       |       |  |
|               | ???                 | ????????7111?71???? ?  | 25300                                 | kg   |       |       |       |  |
|               | ???                 | ????????9011?75???? ?  | 26000                                 | kg   |       |       |       |  |
|               | ???                 | ????????90B2?75???? ?  | 26500                                 | kg   |       |       |       |  |
|               | ???                 | ????????90B2?80???? ?  | 27000                                 | kg   |       |       |       |  |
|               |                     |                        | F ?                                   |      |       |       |       |  |
|               |                     |                        | Z ?                                   |      |       |       |       |  |
|               |                     |                        | A ?                                   |      |       |       |       |  |
|               |                     |                        | N ?                                   |      |       |       |       |  |
|               |                     |                        | P ?                                   |      |       |       |       |  |
|               |                     |                        | Q ?                                   |      |       |       |       |  |
|               |                     |                        | B ?                                   |      |       |       |       |  |
|               |                     |                        | V ?                                   |      |       |       |       |  |
|               |                     |                        | C ?                                   |      |       |       |       |  |
|               |                     |                        | E ?                                   |      |       |       |       |  |
|               |                     |                        | F ?                                   |      |       |       |       |  |
|               |                     |                        | H ?                                   |      |       |       |       |  |
|               |                     |                        | S ?                                   |      |       |       |       |  |
|               |                     |                        | kg                                    |      |       |       |       |  |
|               |                     |                        | KN                                    |      |       |       |       |  |
| 2.11.1.       | ???                 | ????????86B2?80????F ? | Mcomb (2.11.5.)                       |      | 40000 | 44000 | 60000 |  |
|               | ???                 | ????????86B2?75????F ? | D= 70                                 | ÷    | 285   | 285   | 285   |  |
|               | ???                 | ????????80B2?80????F ? | 8900                                  | ÷    | 30330 | 34330 | 50330 |  |
|               | ???                 | ????????80B2?75????F ? | 8900                                  | ÷    | 30330 | 34330 | 50330 |  |
|               | ???                 | ????????80B2?67????F ? | 9100                                  | ÷    | 30330 | 34330 | 50330 |  |
|               | ???                 | ????????75B2?80????F ? | 8900                                  | ÷    | 30330 | 34330 | 50330 |  |
|               | ???                 | ????????75B2?75????F ? | 9000                                  | ÷    | 30330 | 34330 | 50330 |  |
|               | ???                 | ????????67B2?67????F ? | 9200                                  | ÷    | 30330 | 34330 | 50330 |  |
|               | ???                 | ????????71B2?71????F ? | 9100                                  | ÷    | 30330 | 34330 | 50330 |  |
|               | ???                 | ????????8611?75????F ? | 8900                                  | ÷    | 30330 | 34330 | 50330 |  |
|               | ???                 | ????????8011?75????F ? | 9000                                  | ÷    | 30330 | 34330 | 50330 |  |
|               | ???                 | ????????7511?75????F ? | 9000                                  | ÷    | 30330 | 34330 | 50330 |  |
|               | ???                 | ????????6711?67????F ? | 9200                                  | ÷    | 30330 | 34330 | 50330 |  |
|               | ???                 | ????????7111?71????F ? | 9100                                  | ÷    | 30330 | 34330 | 50330 |  |
|               | ???                 | ????????9011?75????F ? | 8900                                  | ÷    | 30330 | 34330 | 50330 |  |
|               | ???                 | ????????90B2?75????F ? | 8900                                  | ÷    | 30330 | 34330 | 50330 |  |
|               | ???                 | ????????90B2?80????F ? | 8900                                  | ÷    | 30330 | 34330 | 50330 |  |
|               | ???                 | ????????????????N ?    | non ricorre / not applicable          |      |       |       |       |  |

oppure 3500 kg con rimorchio a frenatura ad inerzia  
or 3500 kg with trailer with inertia braking system





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| Punto<br>Item | Variante<br>Variant | Versione<br>Version     | Descrizione<br>Description          |
|---------------|---------------------|-------------------------|-------------------------------------|
| 2.11.6.       | ???                 | ????????????????????F ? | 750 kg                              |
|               | ???                 | ????????????????????N ? | non ricorre / <i>not applicable</i> |
| 2.12.1.       | ???                 | ????????????????????F ? | 1000 kg                             |
|               | ???                 | ????????????????????N ? | non ricorre / <i>not applicable</i> |



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| Punto<br>Item | Variante<br>Variant | Versione<br>Version   | Descrizione<br>Description                         |
|---------------|---------------------|-----------------------|----------------------------------------------------|
| 3.1.1.        | ??C                 | G8??C?N???????????? ? | F2BFA601G*J                                        |
|               | ??C                 | G8??C?P???????????? ? | F2BFA601K*J                                        |
|               | ??C                 | G8??C?Q???????????? ? | F2BFA601D*J                                        |
|               | ??C                 | G9??C?V???????????? ? | F2CFE601E*J                                        |
|               | ??C                 | G3??C?C???????????? ? | F3HFE601B*J                                        |
|               | ??C                 | G3??C?E???????????? ? | F3HFE601A*J                                        |
|               | ??S                 | 09??C?Z???????????? ? | F2CFE611D*J                                        |
|               | ??S                 | 09??C?A???????????? ? | F2CFE611C*J                                        |
|               | ??S                 | 09??C?B???????????? ? | F2CFE611B*J                                        |
|               | ??S                 | 09??C?V???????????? ? | F2CFE611A*J                                        |
|               | ??S                 | 11??C?C???????????? ? | F3GFE611F*J                                        |
|               | ??S                 | 11??C?E???????????? ? | F3GFE611E*J                                        |
|               | ??S                 | 11??C?F???????????? ? | F3GFE611G*J                                        |
|               | ??S                 | 11??K?F???????????? ? | F3GFL611D*J                                        |
|               | ??S                 | 12??C?R???????????? ? | F3HFE611G*J                                        |
|               | ??S                 | 12??C?S???????????? ? | F3HFE611F*J                                        |
|               | ??S                 | 12??K?S???????????? ? | F3HFL611D*J                                        |
| 3.2.1.1.      | ??C                 | ???????????????? ?    | accensione comandata / <i>positive ignition</i>    |
|               | ??S                 | ???????????????? ?    | accensione spontanea / <i>compression ignition</i> |
| 3.2.1.9.      | ??C                 | G8???????????? ?      | 2400 ± 50 min <sup>-1</sup>                        |
|               | ??C                 | G9???????????? ?      | 2400 ± 50 min <sup>-1</sup>                        |
|               | ??C                 | G3???????????? ?      | 2300 ± 50 min <sup>-1</sup>                        |
|               | ??S                 | 09???????????? ?      | 2400 ± 50 min <sup>-1</sup>                        |
|               | ??S                 | 11???????????? ?      | 2320 ± 50 min <sup>-1</sup>                        |
|               | ??S                 | 12???????????? ?      | 2320 ± 50 min <sup>-1</sup>                        |



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Punto  
Item

4.6.

Tipo cambio  
Gear box type

|                  | 9S 131? TO | 12AS 142? TD | 12AS 193? TD | 12AS 233? TD | 12AS 233? TO | 12AS 253? TO | 12TX 141? TD<br>12TX 181? TD | 12TX 201? TD | 12TX 221? TD | 12TX 242? TD<br>12TX 262? TD<br>12TX 282? TD | 12TX 181? TO | 12TX 201? TO | 12TX 221? TO<br>12TX 241? TO | 12TX 241? TO<br>12TX 261? TO | 16S 162? TD | 16S 182? TO | 16TX 244? TD<br>16TX 264? TD | 16TX 244? TO<br>16TX 264? TO | 16S 222? TO | 16S 232? TD | 16S 252? TO | Allison S3000<br>Allison S3200 | Allison 3200<br>Allison 3200R | Allison 3500<br>Allison 3500R |
|------------------|------------|--------------|--------------|--------------|--------------|--------------|------------------------------|--------------|--------------|----------------------------------------------|--------------|--------------|------------------------------|------------------------------|-------------|-------------|------------------------------|------------------------------|-------------|-------------|-------------|--------------------------------|-------------------------------|-------------------------------|
| 1                | 9,48       | 12,79        | 15,86        | 15,86        | 12,33        | 12,33        | 16,69                        | 16,69        | 16,69        | 16,69                                        | 12,92        | 12,92        | 12,92                        | 12,92                        | 16,41       | 13,80       | 17,94                        | 14,68                        | 13,80       | 16,41       | 13,80       | 3,49                           | 3,49                          | 4,59                          |
| 2                | 6,58       | 10,33        | 12,32        | 12,32        | 9,59         | 9,59         | 12,92                        | 12,92        | 12,92        | 12,92                                        | 9,98         | 9,98         | 9,98                         | 9,98                         | 13,80       | 11,54       | 14,68                        | 12,05                        | 11,54       | 13,80       | 11,54       | 1,86                           | 1,86                          | 2,25                          |
| 3                | 4,70       | 8,03         | 9,56         | 9,56         | 7,43         | 7,43         | 9,93                         | 9,93         | 9,93         | 9,93                                         | 7,69         | 7,69         | 7,69                         | 7,69                         | 11,28       | 9,49        | 12,12                        | 9,92                         | 9,49        | 11,28       | 9,49        | 1,41                           | 1,41                          | 1,54                          |
| 4                | 3,48       | 6,49         | 7,43         | 7,43         | 5,78         | 5,78         | 7,69                         | 7,69         | 7,69         | 7,69                                         | 5,94         | 5,94         | 5,94                         | 5,94                         | 9,49        | 7,93        | 9,92                         | 8,14                         | 7,93        | 9,49        | 7,93        | 1,00                           | 1,00                          | 1,00                          |
| 5                | 2,62       | 5,18         | 5,87         | 5,87         | 4,57         | 4,57         | 5,90                         | 5,90         | 5,90         | 5,90                                         | 4,57         | 4,57         | 4,57                         | 4,57                         | 7,76        | 6,53        | 8,28                         | 6,78                         | 6,53        | 7,76        | 6,53        | 0,75                           | 0,75                          | 0,75                          |
| 6                | 1,89       | 4,18         | 4,56         | 4,56         | 3,55         | 3,55         | 4,57                         | 4,57         | 4,57         | 4,57                                         | 3,53         | 3,53         | 3,53                         | 3,53                         | 6,53        | 5,46        | 6,78                         | 5,56                         | 5,46        | 6,53        | 5,46        | 0,65                           | 0,65                          | 0,65                          |
| 7                | 1,35       | 3,06         | 3,47         | 3,47         | 2,70         | 2,70         | 3,66                         | 3,66         | 3,66         | 3,66                                         | 2,83         | 2,83         | 2,83                         | 2,83                         | 5,43        | 4,57        | 5,57                         | 4,57                         | 4,57        | 5,43        | 4,57        |                                |                               |                               |
| 8                | 1,00       | 2,47         | 2,70         | 2,70         | 2,10         | 2,10         | 2,83                         | 2,83         | 2,83         | 2,83                                         | 2,19         | 2,19         | 2,19                         | 2,19                         | 4,57        | 3,82        | 4,57                         | 3,75                         | 3,82        | 4,57        | 3,82        |                                |                               |                               |
| 9                | 0,75       | 1,92         | 2,09         | 2,09         | 1,63         | 1,63         | 2,17                         | 2,17         | 2,17         | 2,17                                         | 1,68         | 1,68         | 1,68                         | 1,68                         | 3,59        | 3,02        | 3,93                         | 3,22                         | 3,02        | 3,59        | 3,02        |                                |                               |                               |
| 10               |            | 1,55         | 1,63         | 1,63         | 1,27         | 1,27         | 1,68                         | 1,68         | 1,68         | 1,68                                         | 1,30         | 1,30         | 1,30                         | 1,30                         | 3,02        | 2,53        | 3,22                         | 2,64                         | 2,53        | 3,02        | 2,53        |                                |                               |                               |
| 11               |            | 1,24         | 1,28         | 1,28         | 1,00         | 1,00         | 1,29                         | 1,29         | 1,29         | 1,29                                         | 1,00         | 1,00         | 1,00                         | 1,00                         | 2,47        | 2,08        | 2,65                         | 2,17                         | 2,08        | 2,47        | 2,08        |                                |                               |                               |
| 12               |            | 1,00         | 1,00         | 1,00         | 0,78         | 0,78         | 1,00                         | 1,00         | 1,00         | 1,00                                         | 0,77         | 0,77         | 0,77                         | 0,77                         | 2,08        | 1,74        | 2,17                         | 1,78                         | 1,74        | 2,08        | 1,74        |                                |                               |                               |
| 13               |            |              |              |              |              |              |                              |              |              |                                              |              |              |                              |                              | 1,70        | 1,43        | 1,81                         | 1,49                         | 1,43        | 1,70        | 1,43        |                                |                               |                               |
| 14               |            |              |              |              |              |              |                              |              |              |                                              |              |              |                              |                              | 1,43        | 1,20        | 1,49                         | 1,22                         | 1,20        | 1,43        | 1,20        |                                |                               |                               |
| 15               |            |              |              |              |              |              |                              |              |              |                                              |              |              |                              |                              | 1,19        | 1,00        | 1,22                         | 1,00                         | 1,00        | 1,19        | 1,00        |                                |                               |                               |
| 16               |            |              |              |              |              |              |                              |              |              |                                              |              |              |                              |                              | 1,00        | 0,84        | 1,00                         | 0,82                         | 0,84        | 1,00        | 0,84        |                                |                               |                               |
| R1               | 8,97       | 13,10        | 14,68        | 14,68        | 11,41        | 11,41        | 15,54                        | 15,54        | 15,54        | 15,54                                        | 12,03        | 12,03        | 12,03                        | 12,03                        | 15,36       | 12,92       | 17,27                        | 14,14                        | 12,92       | 15,36       | 12,92       | 5,03                           | 5,03                          | 5,00                          |
| R2               |            | 10,59        | 11,41        | 11,41        | 8,88         | 8,88         | 12,03                        | 12,03        | 12,03        | 12,03                                        | 9,29         | 9,29         | 9,29                         | 9,29                         | 12,92       | 10,80       | 14,14                        | 11,61                        | 10,80       | 12,92       | 10,80       |                                |                               |                               |
| R3               |            |              |              |              |              |              | 3,40                         | 3,40         | 3,40         | 3,40                                         | 2,64         | 2,64         | 2,64                         | 2,64                         |             |             | 3,78                         | 3,09                         |             |             |             |                                |                               |                               |
| R4               |            |              |              |              |              |              | 2,64                         | 2,64         | 2,64         | 2,64                                         | 2,04         | 2,04         | 2,04                         | 2,04                         |             |             | 3,09                         | 2,54                         |             |             |             |                                |                               |                               |
| Rapporto finale: | 3,2        | 3,2          | 3,2          | 3,2          | 3,2          | 3,2          | 3,2                          | 3,2          | 3,2          | 3,2                                          | 3,2          | 3,2          | 3,2                          | 3,2                          | 3,2         | 3,2         | 3,2                          | 3,2                          | 3,2         | 3,2         | 3,2         | 3,2                            | 3,2                           | 3,2                           |
| Final drive:     |            |              |              |              |              |              |                              |              |              |                                              |              |              |                              |                              |             |             |                              |                              |             |             |             |                                |                               |                               |



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Combinazioni motore / cambio / rapporto al ponte / ripartitore (se applicabile):

Engine / gear box / rear axle ratio / transfer box (if applicable) combinations:

| Tipo cambio<br>Gear box type | 9S 131? TO         | 12AS 142? TD | 12AS 193? TD | 12AS 233? TD | 12AS 233? TO | 12AS 253? TO | 12TX 141? TD<br>12TX 181? TD | 12TX 201? TD | 12TX 221? TD | 12TX 242? TD<br>12TX 262? TD<br>12TX 282? TD | 12TX 181? TO | 12TX 201? TO | 12TX 221? TO<br>12TX 241? TO | 12TX 241? TO<br>12TX 261? TO | 16S 162? TD | 16S 182? TO | 16TX 244? TD<br>16TX 264? TD | 16TX 244? TO<br>16TX 264? TO | 16S 222? TO | 16S 232? TD | 16S 252? TO | Allison S3000<br>Allison S3200 | Allison 3200<br>Allison 3200R | Allison 3500<br>Allison 3500R |
|------------------------------|--------------------|--------------|--------------|--------------|--------------|--------------|------------------------------|--------------|--------------|----------------------------------------------|--------------|--------------|------------------------------|------------------------------|-------------|-------------|------------------------------|------------------------------|-------------|-------------|-------------|--------------------------------|-------------------------------|-------------------------------|
|                              | A B                |              | A B          |              |              |              | H I                          |              |              |                                              |              |              |                              |                              | A B         |             |                              |                              |             |             |             | A B                            |                               |                               |
|                              |                    |              | K            |              |              |              | K                            | K            |              |                                              |              |              |                              |                              |             |             |                              |                              |             |             |             |                                | K                             | K                             |
|                              |                    |              |              |              |              |              |                              |              |              |                                              |              |              | E                            |                              |             |             |                              |                              |             |             |             |                                |                               |                               |
|                              | A B                | A B          | A B          |              | A B          |              | H I                          | H I          | H I          | H I                                          | H I          |              |                              |                              | A B         | A B         |                              |                              |             |             |             | A B                            |                               |                               |
|                              |                    |              | D E          | D E          | D E          |              | G H                          | G H          | G H          | G H                                          |              |              | G H                          | G H                          |             |             |                              |                              |             | D E         |             | D E                            |                               |                               |
|                              |                    |              |              | E F          | E F          | E F          | G H                          | G H          | G H          | G H                                          |              |              |                              | G H                          |             |             | G H                          | G H                          |             | E F         | E F         |                                |                               |                               |
|                              | Rapporto ponte: A  | 2,64         | 2,85         | 3,08         | 3,36         | 3,70         | 3,79                         | 4,11         |              |                                              |              |              |                              |                              |             |             |                              |                              |             |             |             |                                |                               |                               |
|                              | Rear axle ratio: B | 4,23         | 4,63         | 4,67         | 5,01         | 5,29         | 6,17                         | 3,40         | 3,78         | 3,79                                         | 4,125        | 4,50         | 5,14                         | 5,56                         | 5,67        | 6,09        | 6,57                         |                              |             |             |             |                                |                               |                               |
|                              | C                  | 2,64         | 2,85         | 3,08         | 3,09         | 3,36         | 3,40                         | 3,70         |              |                                              |              |              |                              |                              |             |             |                              |                              |             |             |             |                                |                               |                               |
|                              | D                  | 3,78         | 3,79         | 4,23         | 4,67         | 2,31         | 2,47                         | 4,125        | 4,50         | 5,01                                         | 5,14         | 5,56         | 5,67                         | 6,09                         | 6,57        |             |                              |                              |             |             |             |                                |                               |                               |
|                              | E                  | 3,08         | 3,36         | 3,70         | 4,11         | 4,63         | 5,29                         |              |              |                                              |              |              |                              |                              |             |             |                              |                              |             |             |             |                                |                               |                               |
|                              | F                  | 3,78         | 3,79         | 4,11         | 4,125        | 4,23         | 4,67                         | 2,31         | 2,47         | 4,50                                         | 5,01         | 5,14         | 5,56                         | 5,67                         | 6,09        | 6,57        |                              |                              |             |             |             |                                |                               |                               |
|                              | G                  | 2,31         | 2,47         | 2,64         | 2,85         | 3,08         | 3,09                         | 3,36         |              |                                              |              |              |                              |                              |             |             |                              |                              |             |             |             |                                |                               |                               |
|                              | H                  | 3,40         | 3,78         | 3,79         | 4,125        | 4,23         | 4,50                         | 4,67         | 5,01         | 5,14                                         | 5,56         | 5,67         | 6,09                         | 6,57                         |             |             |                              |                              |             |             |             |                                |                               |                               |
|                              | I                  | 2,85         | 3,08         | 3,36         | 3,70         | 4,11         | 4,63                         | 5,29         |              |                                              |              |              |                              |                              |             |             |                              |                              |             |             |             |                                |                               |                               |
|                              | K                  | 2,85         | 3,08         | 3,36         | 3,70         | 4,11         | 4,23                         | 4,63         | 4,67         | 5,01                                         | 5,29         | 5,56         | 6,09                         | 6,17                         | 6,59        |             |                              |                              |             |             |             |                                |                               |                               |
| Ripartitore: F               | 1,00               | 0,95         | 0,89         | stradale     |              | -            | 1,60                         | 1,62         | 1,536        | fuoristrada                                  |              |              |                              |                              |             |             |                              |                              |             |             |             |                                |                               |                               |
| Transfer box:                |                    |              |              | on road      |              |              | off road                     |              |              |                                              |              |              |                              |                              |             |             |                              |                              |             |             |             |                                |                               |                               |

Rapporto totale: = rapporto cambio x rapporto ponte oppure rapporto cambio x rapporto ripartitore x rapporto ponte

Total ratio: = gear box ratio x rear axle ratio or gear box ratio x transfer box ratio x rear axle ratio



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| Punto<br>Item | Variante<br>Variant | Versione<br>Version    | Descrizione<br>Description                               |
|---------------|---------------------|------------------------|----------------------------------------------------------|
| 5.4.          | ???                 | ???????????????????? A | 2° e 4° asse<br>2 <sup>nd</sup> and 4 <sup>th</sup> axle |
|               | ???                 | ???????????????????? B | 4° asse<br>4 <sup>th</sup> axle                          |



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| Punto<br>Item | Variante<br>Variant  | Versione<br>Version    | Descrizione<br>Description |                              |                   |                               |                            |                                |                                         |
|---------------|----------------------|------------------------|----------------------------|------------------------------|-------------------|-------------------------------|----------------------------|--------------------------------|-----------------------------------------|
| 6.1.          | ???                  | ???????????????????? A | 10.03.00.0042              | del                          | 12.01.2015        |                               |                            |                                |                                         |
|               |                      |                        | 10.03.00.0048              | of                           | 27.10.2014        |                               |                            |                                |                                         |
|               |                      |                        | 10110001                   |                              | 22.07.2013        |                               |                            |                                |                                         |
|               | ???                  | ???????????????????? B | 10.03.00.0008              | del                          | 12.03.2015        |                               |                            |                                |                                         |
|               |                      |                        |                            | of                           |                   |                               |                            |                                |                                         |
| 6.2.          | ???                  | ???????????????????? A | 25.01.20.0024              | pagina 3<br>page 3           | del               | 18.06.2018                    |                            |                                |                                         |
|               |                      |                        |                            | of                           |                   |                               |                            |                                |                                         |
|               | ???                  | ???????????????????? B | 25.01.20.0031              | pagina 3<br>page 3           | del               | 18.06.2018                    |                            |                                |                                         |
|               |                      |                        |                            | of                           |                   |                               |                            |                                |                                         |
|               | Varianti<br>Variants | Versioni<br>Versions   | Dimensione<br>Size         | Ind. di carico<br>Load index | Carico<br>Payload | Indice di vel.<br>Speed index | Dim. cerchio<br>Rim size   | Offset acciaio<br>Offset steel | Offset<br>alluminio<br>Offset aluminium |
| 6.6.1.1.1.    |                      | ????????67?????????? ? |                            |                              |                   |                               |                            |                                |                                         |
|               | ???                  | ????????71?????????? ? | 385/55 R22,5               | 158                          | 8500              | J - L                         | 22,5 x 11,75               | 130                            | 120-135                                 |
|               |                      | ????????75?????????? ? |                            |                              |                   |                               |                            |                                |                                         |
|               |                      | ????????80?????????? ? |                            |                              |                   |                               |                            |                                |                                         |
|               | ???                  | ????????77?????????? ? |                            | 160                          | 9000              |                               |                            |                                |                                         |
|               | ???                  | ????????67?????????? ? |                            | 150                          | 6700              |                               |                            |                                |                                         |
|               | ???                  | ????????67?????????? ? |                            | 152                          | 7100              |                               |                            |                                |                                         |
|               |                      | ????????71?????????? ? | 315/60 R22,5               |                              |                   | G - L                         | 22,5 x 9,00                | 161-162                        | 150-153                                 |
|               |                      | ????????67?????????? ? |                            |                              |                   |                               |                            |                                |                                         |
|               | ???                  | ????????71?????????? ? |                            | 154                          | 7500              |                               |                            |                                |                                         |
|               |                      | ????????75?????????? ? |                            |                              |                   |                               |                            |                                |                                         |
|               |                      | ????????67?????????? ? |                            |                              |                   |                               |                            |                                |                                         |
|               | ???                  | ????????71?????????? ? | 385/65 R22,5               | 158                          | 8500              | G - L                         | 22,5 x 11,75               | 120-135                        | 120-135                                 |
|               |                      | ????????75?????????? ? |                            |                              |                   |                               |                            |                                |                                         |
|               |                      | ????????80?????????? ? |                            |                              |                   |                               |                            |                                |                                         |
|               | ???                  | ????????77?????????? ? |                            | 160                          | 9000              |                               |                            |                                |                                         |
|               | ???                  | ????????67?????????? ? |                            | 150                          | 6700              |                               |                            |                                |                                         |
|               | ???                  | ????????67?????????? ? |                            | 152                          | 7100              |                               |                            |                                |                                         |
|               |                      | ????????71?????????? ? |                            |                              |                   |                               |                            |                                |                                         |
|               | ???                  | ????????67?????????? ? | 315/70 R22,5               | 154                          | 7500              | G - M                         | 22,5 x 9,00                | 161-162                        | 150-154                                 |
|               |                      | ????????71?????????? ? |                            |                              |                   |                               |                            |                                |                                         |
|               |                      | ????????75?????????? ? |                            |                              |                   |                               |                            |                                |                                         |
|               |                      | ????????67?????????? ? |                            |                              |                   |                               |                            |                                |                                         |
|               | ???                  | ????????71?????????? ? |                            | 156                          | 8000              |                               |                            |                                |                                         |
|               |                      | ????????75?????????? ? |                            |                              |                   |                               |                            |                                |                                         |
|               |                      | ????????80?????????? ? |                            |                              |                   |                               |                            |                                |                                         |
|               | ???                  | ????????67?????????? ? |                            | 150                          | 6700              |                               |                            |                                |                                         |
|               | ???                  | ????????67?????????? ? |                            | 152                          | 7100              |                               |                            |                                |                                         |
|               |                      | ????????71?????????? ? | 295/80 R22,5               |                              |                   | G - M                         | 22,5 x 8,25<br>22,5 x 9,00 | 152-159<br>161-162             | 145-148<br>150-154                      |
|               |                      | ????????67?????????? ? |                            |                              |                   |                               |                            |                                |                                         |
|               | ???                  | ????????71?????????? ? |                            | 154                          | 7500              |                               |                            |                                |                                         |
|               |                      | ????????75?????????? ? |                            |                              |                   |                               |                            |                                |                                         |



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| Punto<br>Item | Variante<br>Variant | Versione<br>Version                                                                          | Descrizione<br>Description |                    |                              |                   |                               |                          |                                |                                      |
|---------------|---------------------|----------------------------------------------------------------------------------------------|----------------------------|--------------------|------------------------------|-------------------|-------------------------------|--------------------------|--------------------------------|--------------------------------------|
| 6.6.1.1.2.    | ???                 | ????????67???????? ?                                                                         | 305/70 R22,5               | 150                | 6700                         | G - M             | 22,5 x 8,25<br>22,5 x 9,00    | 152-159<br>161-162       | 145-148<br>150-154             |                                      |
|               | ???                 | ????????67???????? ?<br>????????71???????? ?                                                 |                            | 152                | 7100                         |                   |                               |                          |                                |                                      |
|               | ???                 | ????????67???????? ?<br>????????71???????? ?<br>????????75???????? ?                         |                            | 154                | 7500                         |                   |                               |                          |                                |                                      |
|               | ???                 | ????????67???????? ?<br>????????71???????? ?<br>????????75???????? ?                         |                            | 150                | 6700                         |                   |                               |                          |                                |                                      |
|               | ???                 | ????????67???????? ?<br>????????71???????? ?<br>????????75???????? ?                         | 315/80 R22,5               | 152                | 7100                         | G - M             | 22,5 x 9,00                   | 161-162                  | 150-154                        |                                      |
|               | ???                 | ????????67???????? ?<br>????????71???????? ?<br>????????75???????? ?                         |                            | 154                | 7500                         |                   |                               |                          |                                |                                      |
|               | ???                 | ????????67???????? ?<br>????????71???????? ?<br>????????75???????? ?<br>????????80???????? ? |                            | 156                | 8000                         |                   |                               |                          |                                |                                      |
|               | ???                 | ????????67???????? ?<br>????????71???????? ?<br>????????75???????? ?<br>????????80???????? ? |                            | 150                | 6700                         |                   |                               |                          |                                |                                      |
|               | ???                 | ????????67???????? ?<br>????????71???????? ?<br>????????75???????? ?                         | 13 R22,5                   | 152                | 7100                         | G - M             | 22,5 x 9,00                   | 161-162                  | 150-154                        |                                      |
|               | ???                 | ????????67???????? ?<br>????????71???????? ?<br>????????75???????? ?                         |                            | 154                | 7500                         |                   |                               |                          |                                |                                      |
|               | ???                 | ????????67???????? ?<br>????????71???????? ?<br>????????75???????? ?<br>????????80???????? ? |                            | 156                | 8000                         |                   |                               |                          |                                |                                      |
|               | ???                 | ????????67???????? ?<br>????????71???????? ?<br>????????75???????? ?<br>????????80???????? ? |                            | 150                | 6700                         |                   |                               |                          |                                |                                      |
|               | ???                 | ????????67???????? ?<br>????????71???????? ?<br>????????75???????? ?                         | 12 R22,5                   | 152                | 7100                         | G - M             | 22,5 x 8,25<br>22,5 x 9,00    | 145-159                  | 153-162                        |                                      |
|               | ???                 | ????????67???????? ?<br>????????71???????? ?                                                 |                            | 150                | — 6700                       |                   |                               |                          |                                |                                      |
|               | ???                 | ????????67???????? ?<br>????????71???????? ?<br>????????75???????? ?                         | 295/60 R22,5               | 150                | — 6700                       | G - L             | 22,5 x 8,25<br>22,5 x 9,00    | 152-159<br>161-162       | 145-148<br>150-154             |                                      |
|               | ???                 | ????????67???????? ?<br>????????71???????? ?                                                 | 355/50 R22,5               | 152                | 7100                         | K - L             | 22,5 x 11,75                  | 130-135                  | 130-135                        |                                      |
|               | ???                 | ????????67???????? ?<br>????????71???????? ?<br>????????75???????? ?                         |                            | 154                | 7500                         |                   |                               |                          |                                |                                      |
|               | ???                 | ????????67???????? ?<br>????????71???????? ?<br>????????75???????? ?                         |                            |                    |                              |                   |                               |                          |                                |                                      |
|               |                     | Varianti<br>Variants                                                                         | Versioni<br>Versions       | Dimensione<br>Size | Ind. di carico<br>Load index | Carico<br>Payload | Indice di vel.<br>Speed index | Dim. cerchio<br>Rim size | Offset acciaio<br>Offset steel | Offset alluminio<br>Offset aluminium |
|               | ???                 | ????????67???? ?<br>????????71???? ?                                                         | 315/60 R22,5               | 150                | 6700                         | G - L             | 22,5 x 9,00                   | 161-162                  | 150-153                        |                                      |
|               | ???                 | ????????67???? ?<br>????????71???? ?<br>????????75???? ?                                     |                            | 152                | 7100                         |                   |                               |                          |                                |                                      |
|               | ???                 | ????????67???? ?<br>????????71???? ?<br>????????75???? ?<br>????????80???? ?                 |                            | 154                | 7500                         |                   |                               |                          |                                |                                      |
|               | ???                 | ????????67???? ?<br>????????71???? ?<br>????????75???? ?<br>????????80???? ?                 |                            | 150                | 6700                         |                   |                               |                          |                                |                                      |
|               | ???                 | ????????67???? ?<br>????????71???? ?<br>????????75???? ?                                     | 315/70 R22,5               | 152                | 7100                         | G - M             | 22,5 x 9,00                   | 161-162                  | 150-154                        |                                      |
|               | ???                 | ????????67???? ?<br>????????71???? ?<br>????????75???? ?                                     |                            | 154                | 7500                         |                   |                               |                          |                                |                                      |
|               | ???                 | ????????67???? ?<br>????????71???? ?<br>????????75???? ?<br>????????80???? ?                 |                            | 154                | 7500                         |                   |                               |                          |                                |                                      |
|               | ???                 | ????????67???? ?<br>????????71???? ?<br>????????75???? ?<br>????????80???? ?                 |                            |                    |                              |                   |                               |                          |                                |                                      |



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| Punto<br>Item | Variante<br>Variant | Versione<br>Version                                                                                          | Descrizione<br>Description |      |       |                            |                    |                    |
|---------------|---------------------|--------------------------------------------------------------------------------------------------------------|----------------------------|------|-------|----------------------------|--------------------|--------------------|
| ???           | ???                 | ????????????67???? ?<br>????????????71???? ?<br>????????????75???? ?<br>????????????80???? ?                 | 156                        | 8000 |       |                            |                    |                    |
| ???           | ???                 | ????????????67???? ?<br>????????????71???? ?                                                                 | 150                        | 6700 |       |                            |                    |                    |
| ???           | ???                 | ????????????67???? ?<br>????????????71???? ?<br>????????????75???? ?                                         | 152                        | 7100 | G - M | 22,5 x 8,25<br>22,5 x 9,00 | 152-159<br>161-162 | 145-148<br>150-154 |
| ???           | ???                 | 295/80 R22,5<br>????????????67???? ?<br>????????????71???? ?<br>????????????75???? ?<br>????????????80???? ? | 154                        | 7500 |       |                            |                    |                    |
| ???           | ???                 | ????????????67???? ?<br>????????????71???? ?                                                                 | 150                        | 6700 |       |                            |                    |                    |
| ???           | ???                 | ????????????67???? ?<br>????????????71???? ?<br>????????????75???? ?                                         | 152                        | 7100 | G - M | 22,5 x 8,25<br>22,5 x 9,00 | 152-159<br>161-162 | 145-148<br>150-154 |
| ???           | ???                 | 305/70 R22,5<br>????????????67???? ?<br>????????????71???? ?<br>????????????75???? ?<br>????????????80???? ? | 154                        | 7500 |       |                            |                    |                    |
| ???           | ???                 | ????????????67???? ?<br>????????????71???? ?                                                                 | 150                        | 6700 |       |                            |                    |                    |
| ???           | ???                 | ????????????67???? ?<br>????????????71???? ?<br>????????????75???? ?                                         | 152                        | 7100 | G - M | 22,5 x 9,00                | 161-162            | 150-154            |
| ???           | ???                 | 315/80 R22,5<br>????????????67???? ?<br>????????????71???? ?<br>????????????75???? ?<br>????????????80???? ? | 154                        | 7500 |       |                            |                    |                    |
| ???           | ???                 | ????????????67???? ?<br>????????????71???? ?<br>????????????75???? ?<br>????????????80???? ?                 | 156                        | 8000 |       |                            |                    |                    |
| ???           | ???                 | ????????????67???? ?<br>????????????71???? ?                                                                 | 150                        | 6700 | G - L | 22,5 x 8,25<br>22,5 x 9,00 | 152-159<br>161-162 | 145-148<br>150-154 |
| ???           | ???                 | 295/60 R22,5<br>????????????67???? ?<br>????????????71???? ?                                                 | 150                        | 6700 |       |                            |                    |                    |
| ???           | ???                 | ????????????67???? ?<br>????????????71???? ?<br>????????????75???? ?                                         | 152                        | 7100 |       |                            |                    |                    |
| ???           | ???                 | ????????????67???? ?<br>????????????71???? ?<br>????????????75???? ?<br>????????????80???? ?                 | 154                        | 7500 | G - M | 22,5 x 9,00                | 161-162            | 150-154            |
| ???           | ???                 | 13 R22,5<br>????????????67???? ?<br>????????????71???? ?<br>????????????75???? ?<br>????????????80???? ?     | 156                        | 8000 |       |                            |                    |                    |
| ???           | ???                 | ????????????67???? ?<br>????????????71???? ?                                                                 | 150                        | 6700 |       |                            |                    |                    |
| ???           | ???                 | ????????????67???? ?<br>????????????71???? ?<br>????????????75???? ?                                         | 152                        | 7100 | G - M | 22,5 x 8,25<br>22,5 x 9,00 | 145-159            | 153-162            |
| ???           | ???                 | 12 R22,5<br>????????????67???? ?<br>????????????71???? ?<br>????????????75???? ?                             | 152                        | 7100 |       |                            |                    |                    |



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| Punto<br>Item | Variante<br>Variant  | Versione<br>Version                                                                          | Descrizione<br>Description |                              |                   |                               |                            |                                |                                      |
|---------------|----------------------|----------------------------------------------------------------------------------------------|----------------------------|------------------------------|-------------------|-------------------------------|----------------------------|--------------------------------|--------------------------------------|
| 6.6.1.1.3.    | ???                  | ????????????67???? ?<br>????????????71???? ?<br>????????????75???? ?<br>????????????80???? ? | 385/55 R22,5               | 158                          | 8500              | J - L                         | 22,5 x 11,75               | 130                            | 120-135                              |
|               | ???                  | ????????????67???? ?<br>????????????71???? ?<br>????????????75???? ?<br>????????????80???? ? |                            | 160                          | 9000              |                               |                            |                                |                                      |
|               | ???                  | ????????????67???? ?<br>????????????71???? ?<br>????????????75???? ?<br>????????????80???? ? | 385/65 R22,5               | 158                          | 8500              | G - L                         | 22,5 x 11,75               | 120-135                        | 120-135                              |
|               | ???                  | ????????????67???? ?<br>????????????71???? ?<br>????????????75???? ?<br>????????????80???? ? |                            | 160                          | 9000              |                               |                            |                                |                                      |
|               | ???                  | ????????????67???? ?<br>????????????71???? ?<br>????????????75???? ?<br>????????????80???? ? | 355/50 R22,5               | 152                          | 7100              | K - L                         | 22,5 x 11,75               | 130-135                        | 130-135                              |
|               | ???                  | ????????????67???? ?<br>????????????71???? ?<br>????????????75???? ?<br>????????????80???? ? |                            | 154                          | 7500              |                               |                            |                                |                                      |
|               | Varianti<br>Variants | Versioni<br>Versions                                                                         | Dimensione<br>Size         | Ind. di carico<br>Load index | Carico<br>Payload | Indice di vel.<br>Speed index | Dim. cerchio<br>Rim size   | Offset acciaio<br>Offset steel | Offset alluminio<br>Offset aluminium |
|               | ???                  | ????????????11???????? ?<br>????????????11???????? ?<br>????????????B2???????? ?             | 315/80 R22,5               | 145                          | 11600             | G - M                         | 22,5 x 9,00                | 161-162                        | 150-154                              |
|               | ???                  | ????????????11???????? ?<br>????????????B2???????? ?                                         | 315/60 R22,5               | 147                          | 12300             | G - L                         | 22,5 x 9,00                | 161-162                        | 150-153                              |
|               | ???                  | ????????????11???????? ?<br>????????????B2???????? ?                                         | 315/70 R22,5               | 145                          | 11600             | G - M                         | 22,5 x 9,00                | 161-162                        | 150-154                              |
|               | ???                  | ????????????11???????? ?<br>????????????B2???????? ?                                         | 305/70 R22,5               | 147                          | 12300             | G - M                         | 22,5 x 8,25<br>22,5 x 9,00 | 152-159<br>161-162             | 145-148<br>150-154                   |
|               | ???                  | ????????????11???????? ?<br>????????????B2???????? ?                                         | 295/80 R22,5               | 145                          | 11600             | G - M                         | 22,5 x 8,25<br>22,5 x 9,00 | 152-159<br>161-162             | 145-148<br>150-154                   |
|               | ???                  | ????????????11???????? ?<br>????????????B2???????? ?                                         | 13 R22,5                   | 147                          | 12300             | G - M                         | 22,5 x 9,00                | 161-162                        | 150-154                              |
|               | ???                  | ????????????11???????? ?<br>????????????B2???????? ?                                         | 12 R22,5                   | 147                          | 12300             | G - M                         | 22,5 x 8,25<br>22,5 x 9,00 | 145-159                        | 153-162                              |
|               | ???                  | ????????????11???????? ?<br>????????????B2???????? ?                                         | 295/60 R22,5               | 147                          | 12300             | G - L                         | 22,5 x 8,25<br>22,5 x 9,00 | 152-159<br>161-162             | 145-148<br>150-154                   |



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|---------------|----------------------|----------------------|----------------------------|------------------------------|-------------------|-------------------------------|----------------------------|--------------------------------|--------------------------------------|
|               | Varianti<br>Variants | Versioni<br>Versions | Dimensione<br>Size         | Ind. di carico<br>Load index | Carico<br>Payload | Indice di vel.<br>Speed index | Dim. cerchio<br>Rim size   | Offset acciaio<br>Offset steel | Offset alluminio<br>Offset aluminium |
| 6.6.1.1.4.    | ???                  | ????????????67???? ? | 315/60 R22,5               | 150                          | 6700              | G - L                         | 22,5 x 9,00                | 161-162                        | 150-153                              |
|               | ???                  | ????????????67???? ? |                            | 152                          | 7100              |                               |                            |                                |                                      |
|               | ???                  | ????????????71???? ? |                            | 154                          | 7500              |                               |                            |                                |                                      |
|               | ???                  | ????????????75???? ? |                            | 156                          | 8000              |                               |                            |                                |                                      |
|               | ???                  | ????????????67???? ? | 315/70 R22,5               | 150                          | 6700              | G - M                         | 22,5 x 9,00                | 161-162                        | 150-154                              |
|               | ???                  | ????????????67???? ? |                            | 152                          | 7100              |                               |                            |                                |                                      |
|               | ???                  | ????????????71???? ? |                            | 154                          | 7500              |                               |                            |                                |                                      |
|               | ???                  | ????????????75???? ? |                            | 156                          | 8000              |                               |                            |                                |                                      |
|               | ???                  | ????????????80???? ? | 295/80 R22,5               | 150                          | 6700              | G - M                         | 22,5 x 8,25<br>22,5 x 9,00 | 152-159<br>161-162             | 145-148<br>150-154                   |
|               | ???                  | ????????????67???? ? |                            | 152                          | 7100              |                               |                            |                                |                                      |
|               | ???                  | ????????????71???? ? |                            | 154                          | 7500              |                               |                            |                                |                                      |
|               | ???                  | ????????????75???? ? |                            | 156                          | 8000              |                               |                            |                                |                                      |
|               | ???                  | ????????????67???? ? | 305/70 R22,5               | 150                          | 6700              | G - M                         | 22,5 x 8,25<br>22,5 x 9,00 | 152-159<br>161-162             | 145-148<br>150-154                   |
|               | ???                  | ????????????67???? ? |                            | 152                          | 7100              |                               |                            |                                |                                      |
|               | ???                  | ????????????71???? ? |                            | 154                          | 7500              |                               |                            |                                |                                      |
|               | ???                  | ????????????75???? ? |                            | 156                          | 8000              |                               |                            |                                |                                      |
|               | ???                  | ????????????67???? ? | 315/80 R22,5               | 150                          | 6700              | G - M                         | 22,5 x 9,00                | 161-162                        | 150-154                              |
|               | ???                  | ????????????67???? ? |                            | 152                          | 7100              |                               |                            |                                |                                      |
|               | ???                  | ????????????71???? ? |                            | 154                          | 7500              |                               |                            |                                |                                      |
|               | ???                  | ????????????75???? ? |                            | 156                          | 8000              |                               |                            |                                |                                      |
|               | ???                  | ????????????80???? ? | 295/60 R22,5               | 150 – 6700                   | G - L             | 22,5 x 8,25<br>22,5 x 9,00    | 152-159<br>161-162         | 145-148<br>150-154             |                                      |
|               | ???                  | ????????????67???? ? |                            | 150                          | 6700              | G - M                         | 22,5 x 9,00                | 161-162                        | 150-154                              |
|               | ???                  | ????????????67???? ? |                            | 152                          | 7100              |                               |                            |                                |                                      |
|               | ???                  | ????????????71???? ? |                            | 154                          | 7500              |                               |                            |                                |                                      |
|               | ???                  | ????????????75???? ? | 156                        | 8000                         |                   |                               |                            |                                |                                      |
|               | ???                  | ????????????67???? ? | 13 R22,5                   | 150                          | 6700              | G - M                         | 22,5 x 9,00                | 161-162                        | 150-154                              |
|               | ???                  | ????????????71???? ? |                            | 152                          | 7100              |                               |                            |                                |                                      |
|               | ???                  | ????????????75???? ? |                            | 154                          | 7500              |                               |                            |                                |                                      |
|               | ???                  | ????????????80???? ? |                            | 156                          | 8000              |                               |                            |                                |                                      |
|               | ???                  | ????????????67???? ? | 12 R22,5                   | 150                          | 6700              | G - M                         | 22,5 x 8,25<br>22,5 x 9,00 | 145-159                        | 153-162                              |
|               | ???                  | ????????????67???? ? |                            | 152                          | 7100              |                               |                            |                                |                                      |
|               | ???                  | ????????????71???? ? |                            | 154                          | 7500              |                               |                            |                                |                                      |
| ???           | ????????????75???? ? | 156                  |                            | 8000                         |                   |                               |                            |                                |                                      |



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| Punto<br>Item | Variante<br>Variant | Versione<br>Version                                                                          | Descrizione<br>Description |     |      |       |              |         |         |
|---------------|---------------------|----------------------------------------------------------------------------------------------|----------------------------|-----|------|-------|--------------|---------|---------|
|               | ???                 | ????????????67???? ?<br>????????????71???? ?<br>????????????75???? ?<br>????????????80???? ? | 385/55 R22,5               | 158 | 8500 | J - L | 22,5 x 11,75 | 130     | 120-135 |
|               | ???                 | ????????????67???? ?<br>????????????71???? ?<br>????????????75???? ?<br>????????????80???? ? |                            | 160 | 9000 |       |              |         |         |
|               | ???                 | ????????????67???? ?<br>????????????71???? ?<br>????????????75???? ?<br>????????????80???? ? |                            | 158 | 8500 |       |              |         |         |
|               | ???                 | ????????????67???? ?<br>????????????71???? ?<br>????????????75???? ?<br>????????????80???? ? |                            | 160 | 9000 |       |              |         |         |
|               | ???                 | ????????????67???? ?<br>????????????71???? ?<br>????????????75???? ?<br>????????????80???? ? | 385/65 R22,5               | 158 | 8500 | G - L | 22,5 x 11,75 | 120-135 | 120-135 |
|               | ???                 | ????????????67???? ?<br>????????????71???? ?<br>????????????75???? ?<br>????????????80???? ? |                            | 160 | 9000 |       |              |         |         |
|               | ???                 | ????????????67???? ?<br>????????????71???? ?<br>????????????75???? ?<br>????????????80???? ? |                            | 152 | 7100 |       |              |         |         |
|               | ???                 | ????????????67???? ?<br>????????????71???? ?<br>????????????75???? ?<br>????????????80???? ? |                            | 154 | 7500 |       |              |         |         |
|               | ???                 | ????????????67???? ?<br>????????????71???? ?<br>????????????75???? ?<br>????????????80???? ? | 355/50 R22,5               | 154 | 7500 | K - L | 22,5 x 11,75 | 130-135 | 130-135 |

| 6.6.2.1. | Dimensione<br>Size | Raggio di<br>rotolamento<br>Rolling radii | Circonferenza di<br>rotolamento<br>Rolling circumference | Pressione (^)<br>Pressure (^) |
|----------|--------------------|-------------------------------------------|----------------------------------------------------------|-------------------------------|
|          | 295/60 R22,5       | 446 mm                                    | 2806 mm                                                  | 900 kPa                       |
|          | 355/50 R22,5       | 450 mm                                    | 2812 mm                                                  | 900 kPa                       |
|          | 315/60 R22,5       | 458 mm                                    | 2879 mm                                                  | 900 kPa                       |
|          | 385/55 R22,5       | 480 mm                                    | 3018 mm                                                  | 900 kPa                       |
|          | 305/70 R22,5       | 486 mm                                    | 3050 mm                                                  | 900 kPa                       |
|          | 315/70 R22,5       | 492 mm                                    | 3093 mm                                                  | 850 ÷ 900 kPa                 |
|          | 295/80 R22,5       | 507 mm                                    | 3184 mm                                                  | 850 ÷ 900 kPa                 |
|          | 385/65 R22,5       | 517 mm                                    | 3248 mm                                                  | 850 kPa                       |
|          | 315/80 R22,5       | 523 mm                                    | 3282 mm                                                  | 875 kPa                       |
|          | 12 R22,5           | 526 mm                                    | 3306 mm                                                  | 850 ÷ 900 kPa                 |
|          | 13 R22,5           | 546 mm                                    | 3428 mm                                                  | 900 kPa                       |

(^): in funzione del carico massimo ammesso  
(^): according to permissible load



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|---------------|---------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8.2.1.        | ???                 | ????????????????????F ? | pneumatico a pedale, a 3 circuiti indipendenti<br>uno per 1° asse, uno per 2°, 3° e 4° asse, ed<br>uno per il rimorchio<br><i>pneumatic (compressed air), 3 independent circuits<br/>one for 1<sup>st</sup> axles, one for 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> axles, and one for the<br/>trailer</i><br><br>Schema impianto frenante:<br><i>Brake system layout:</i> |
|               | ???                 | ????????????????????F A | 25.01.20.0024 pagina 1 del 18.06.2018                                                                                                                                                                                                                                                                                                                                               |
|               | ???                 | ????????????????????F B | 25.01.20.0031 pagina 1 del 18.06.2018                                                                                                                                                                                                                                                                                                                                               |
|               | ???                 | ????????????????????N ? | pneumatico a pedale, a 2 circuiti indipendenti<br>uno per 1° asse, uno per 2°, 3° e 4° asse<br><i>pneumatic (compressed air), 2 independent circuits<br/>one for 1<sup>st</sup> axles, one for 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> axles</i><br><br>Schema impianto frenante:<br><i>Brake system layout:</i>                                                          |
|               | ???                 | ????????????????????N A | 25.01.20.0024 pagina 2 del 18.06.2018                                                                                                                                                                                                                                                                                                                                               |
|               | ???                 | ????????????????????N B | 25.01.20.0031 pagina 2 del 18.06.2018                                                                                                                                                                                                                                                                                                                                               |

### Funzionamento del sistema di controllo di stabilità

Il controllo di stabilità ESP è un sistema di controllo di stabilità non solo nella dinamica longitudinale del veicolo ma specialmente in casi critici di marcia in curva quando sono raggiunti e superati i limiti di stabilità del veicolo. L'ESP utilizza sensori per la rilevazione dell'angolo del volante, della velocità angolare attorno all'asse verticale (tasso di imbardata) e dell'accelerazione laterale ed un software per l'elaborazione dati, verifica e controllo delle dinamiche laterali del veicolo.

La logica di funzionamento dell'ESP può essere divisa in 2 blocchi: controllo di imbardata e controllo di stabilità al rollio.

In entrambi i casi l'ESP cerca di fornire un momento stabilizzante tramite l'attivazione automatica unilaterale dei freni di una singola ruota o di una ruota del gruppo di assi (l'asse aggiunto non è "controllato"), per riportare il veicolo nella giusta direzione. A questo scopo l'ESP controlla sia l'angolo di slittamento del veicolo ed il suo gradiente, sia la deviazione tra quanto richiesto dal conducente e il tasso di imbardata attuale del veicolo. In aggiunta, allo scopo di decelerare il veicolo, la coppia motore viene ridotta ed i freni del rimorchio azionati.

Tutti i componenti dell'ESP sono quelli del veicolo originale 6x2, invariati e non spostati. In particolare il Modulo di Controllo della Stabilità (Wabco 446 065 073 0, appr. E1 10R-031831), che contiene i sensori per valutare il tasso di imbardata e l'accelerazione laterale del veicolo, rimane nella sua posizione originale, in prossimità del centro di gravità del veicolo.

#### Operation of the stability control system

The stability control provides means of vehicle control not only of longitudinal vehicle dynamics but especially of critical cornering situations when driving stability limits are approached or even exceeded.

ESP uses sensors for steering wheel angle, angular velocity around vertical axis (yaw rate) and lateral acceleration plus software for signal processing.

ESP control strategies is split into two features: yaw control and roll stability control.

In both cases ESP will try to build up a yawing momentum by automatic unilateral activation of single wheel brakes or a wheel brakes of an axle group (the added axle isn't "active") to turn the vehicle back to the appropriate direction. In this respect ESP controls the sli angle and its gradient as well as the deviation between driver demand and actual vehicle yaw rate. For purpose of supporting vehicle deceleration also the engine torque will be reduced and the trailer brakes additionally applied.

All the components of ESP are original (of 6x2 vehicle), unchanged and not moved. Especially the Stability Control Module (Wabco 446 065 073 0, appr. E1 10R-031831), that contains sensors for yaw rate and lateral acceleration of the vehicle, remains in the original position, near to the vehicle centre of gravity.



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### Descrizione del sistema LDWS

Il sistema LDWS deve avvisare i conducenti stanchi o distratti quando il loro veicolo lascia involontariamente la corsia di marcia.

Il sistema consiste in una telecamera montata dietro al parabrezza del veicolo. Il sensore rileva le diverse strisce che delimitano la corsia e calcola la posizione del veicolo in riferimento ai segni rilevati.

Se il veicolo sta per abbandonare la corsia senza che il conducente manifesti l'intenzione di cambiarla (senza attivare l'indicatore delle luci) viene generato un suono per avvisare il conducente.

Il suono viene generato dagli altoparlanti sinistro o destro a seconda della direzione di deriva.

Il sistema funziona a velocità del veicolo > 55 km/h.

Per consentire al guidatore di controllare il sistema questo può essere disattivato da un interruttore.

Dopo l'attivazione il sistema è sempre attivo indipendentemente dal suo stato precedente.

L'utente deve essere consapevole del fatto che in alcune situazioni, a causa di particolari condizioni ambientali il sistema non può riconoscere le corsie.

Le prestazioni e la precisione del sistema LDWS dipende dal campo visivo della strada da parte della telecamera.

Questi incroci sono influenzati dall'inclinazione del parabrezza e dall'altezza di installazione.

La telecamera può essere installata da 1,4 a 2,6 m con parabrezza inclinato da 0° a 50°. La telecamera può essere installata con uno spostamento laterale massimo di +/- 1 m.

Tutti i componenti dell'LDWS sono quelli del veicolo originale 6x2, invariati e non spostati.

### LDWS description

*The LDWS shall alert tired or inattentive drivers when their unintentionally leaves the current lane of travel.*

*The system consist of a camera sensor mounted at the vehicle windshield. The sensor detects different types of lane markings and calculates the position of the vehicle in reference to the detected markings. If the vehicle drifts in the direction of one marking and no active driver intention to change the lane can be detected (direction light active) a rumble strip sound is generated to alert the driver.*

*The sound is generated in the left or right speakers depending on the direction of drift.*

*The system operates at vehicle speeds > 55 km/h.*

*To allow the driver control over the system it can be disabled by a switch. After ignition activation the system is always active independent of it's prior state.*

*Customer needs to be aware that in some situations, due to environment conditions the system cannot track lanes.*

*The performance and precision of the LDWS depends on the minimum and maximum road intersection of the cameras field of view.*

*This intersections are impacted by windscreen inclination and installation height. The camera can be installed from 1.4 to 2.6 m with windscreen inclination from 0° to 50°. The camera can be installed with a maximum lateral displacement from +/- 1 m.*

*All the components of LDWS are original (of 6x2 vehicle), unchanged and not moved.*

### Descrizione del sistema AEBS

Lo scopo dell'AEBS è quello di ridurre gli incidenti provocati da conducenti distratti o colpiti da un colpo di sonno, che impattano contro un veicolo davanti ad essi.

Gli impatti sono ridotti utilizzando un sistema (radarsensor) che misura la distanza dal veicolo che precede; con queste informazioni il sistema può calcolare il tempo potenziale di collisione e attivare i freni autonomamente.

Un intervento tipico dell'AEBS si compone di 3 fasi consecutive:

1. segnale di avvertimento ottico e acustico
2. avvertimento tattile (colpo del freno)
3. frenata d'emergenza

Il conducente sarà avvertito da un segnale acustico, da un'icona e da uno colpo del freno prima che venga attivata la frenata d'emergenza.

Il conducente è sempre in grado di annullare il sistema di incremento di valore del pedale dell'acceleratore, l'attivazione delle luci o dello sterzo (lasciando il percorso di collisione). La frenata del conducente darà conferma al sistema e il sistema si adatterà per ottenere la decelerazione richiesta del veicolo.

Il veicolo che segue sarà avvertito dall'attivazione delle luci dei freni, se la decelerazione è al di sopra di una soglia critica.

Se risultano attivi guasti nel rilevare le prestazioni, il sistema si disabiliterà e al conducente verrà visualizzata un'ICONA nella strumentazione.

Il sistema funziona a velocità comprese tra 15 e 90 km/h.

Il radarsensor verrà installato al centro del veicolo nella zona del paraurti anteriore ad altezze comprese fra 0,3 e 1,0 m.

Tutti i componenti dell'AEBS sono quelli del veicolo originale 6x2, invariati e non spostati.



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### **AEBS description**

*Purpose of the AEBS is to reduce the impact of accidents cause by unattended drivers that were distracted or felt a sleep and hit a vehicle driving in front of them self.*

*The impacts shall be reduced by utilizing a system (radarsensor) that measures the distance to the vehicle ahead, with this information the system can calculate potential time to collision and activate the brakes autonomously by requesting to the brakes if an impact is unavoidable.*

*A typical AEBS intervention consists of 3 escalating steps:*

*1. optic and acoustic warning*

*2. haptic warning (brake jerk)*

*3. emergency braking*

*The driver will be warned by a buzzer, icon and a brake jerk before emergency braking is activated.*

*The driver is always able to override the system by accelerator pedal value increase, turnlight activation or steering (leaving the collision path). Braking of the driver will confirm the system and the system will adopt required vehicle deceleration.*

*The following traffic will be warned by activated brake lights, if deceleration is above a critical threshold the brake lights.*

*If performance relevant faults are active the system will be shutoff and the driver will see an ICON in the instrument cluster.*

*The system will work from speeds between 15 and 90 km/h.*

*The radarsensor will be installed in the vehicle center in the area of the front bumper at heights 0,3 m till 1,0 m.*

*All the components of AEBS are original (of 6x2 vehicle), unchanged and not moved.*

### **8.8. Calcolo del sistema di frenatura (2° asse)**

#### **Calculation of the braking system (2<sup>nd</sup> axle)**

Raggio efficace: Rt 175 mm

*Effective radius:*

Corsa massima della molla: 64 mm

*Piston max stroke:*

Corsa di lavoro della molla: 25 - 35 mm

*Piston working stroke:*

Pressione di calcolo: Db 8 bar

*Calculation pressure:*

Pressione di accostamento dei freni: Da 0,35 bar

*Const. response pressure:*

Caratteristica del freno: C\* 0,76

*Characteristic of wheel brake:*

Coefficiente di attrito della guarnizione:  $\mu$  0,38

*Friction coefficient:*

Superficie della guarnizione freno per asse: A 816 cm<sup>2</sup>

*Friction area per axle:*

Rendimento meccanico del freno:  $\eta$  0,95

*Mechanical efficiency:*

Rapporto rispetto all'azionamento del freno: lz 14,82

*Complete ratio of the mechanic:*

Numero freni per asse: Na 2

*Number of brakes per axle:*

Rapporti di leva: ih 15,6

*Lever ratio:*

Tipo di cilindro freno: SQIN 12"

*Brake cylinder type:*

Forza nel cilindro dovuta alla pressione di calcolo: Fc 5400 N

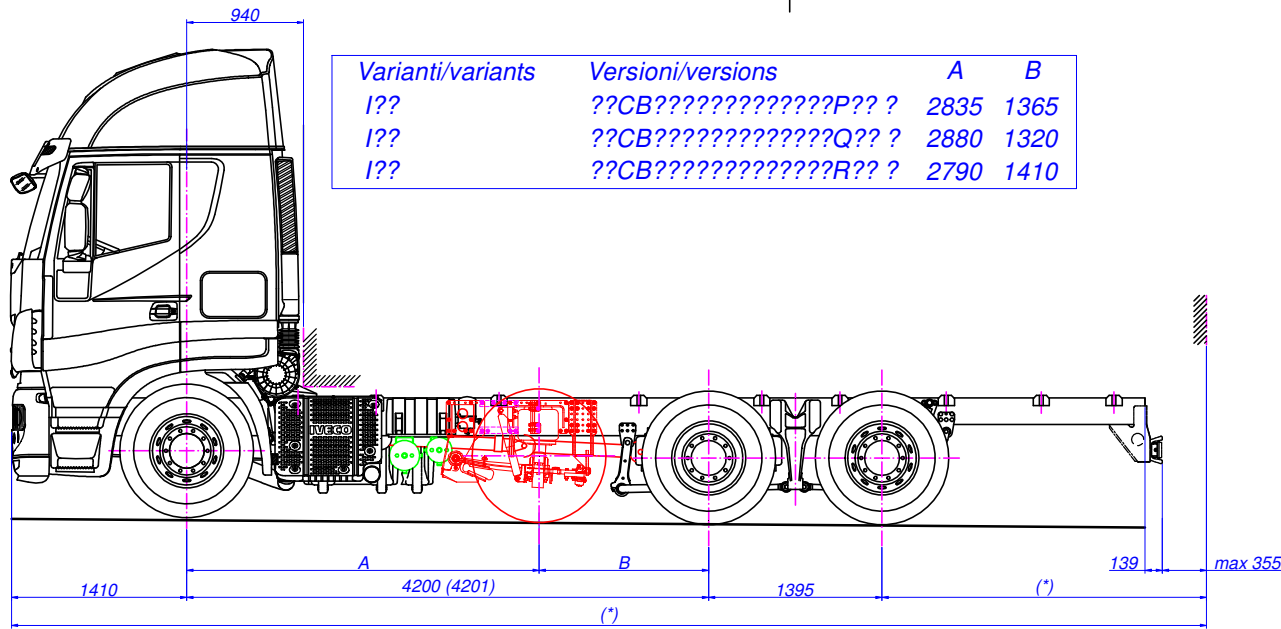
*Cylinder force at calculation pressure:*



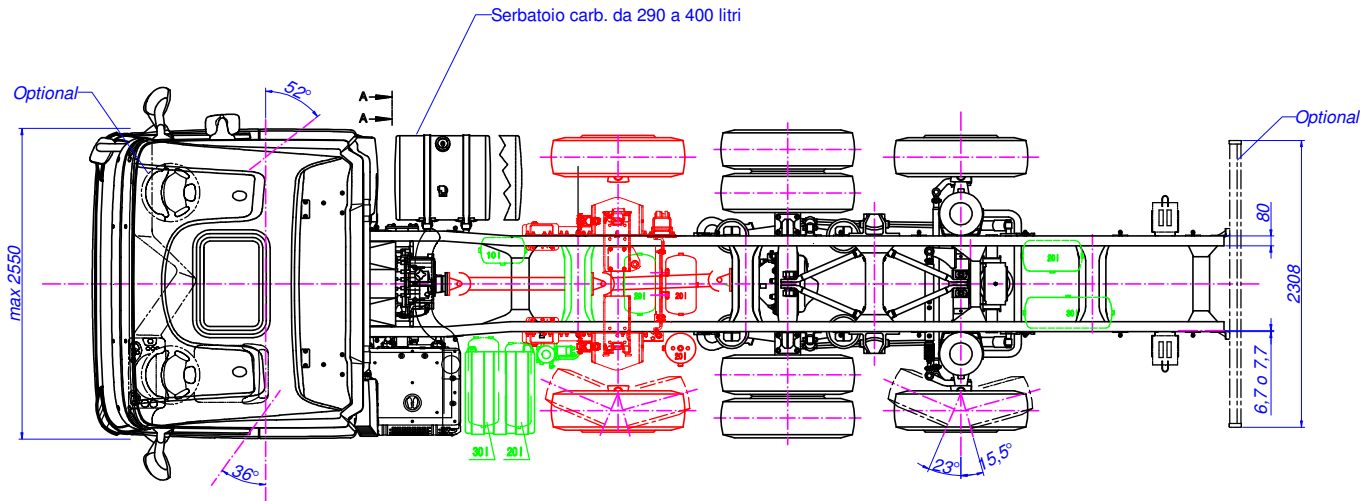
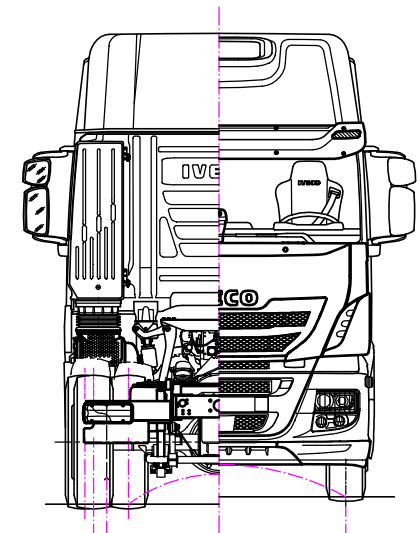
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|-------------------------------------------------------------------------|---------------------|-----------------------------------------------------------|----------------------------|---------------------------------------------------------|
| Forza di accostamento del freno:<br><i>response force of the brake:</i> |                     |                                                           | Fa                         | 65 N                                                    |
| Momento frenante per ruota:<br><i>Brake torque per wheel brake:</i>     |                     |                                                           | Mb                         | 10516 Nm                                                |
| Pneumatici<br>Tyre                                                      | Raggio<br>Radius    | Rapporti rispetto al piano stradale<br>Reaction to street |                            | Forza freno 2° asse<br>Brake force 2 <sup>nd</sup> axle |
| 295/60 R22,5                                                            | R = 428 mm          | If = 4,61                                                 |                            | Ti = 49138 N                                            |
| 355/50 R22,5                                                            | R = 433 mm          | If = 4,55                                                 |                            | Ti = 48571 N                                            |
| 315/60 R22,5                                                            | R = 442 mm          | If = 4,46                                                 |                            | Ti = 47582 N                                            |
| 385/55 R22,5                                                            | R = 461 mm          | If = 4,28                                                 |                            | Ti = 45621 N                                            |
| 305/70 R22,5                                                            | R = 462 mm          | If = 4,27                                                 |                            | Ti = 45522 N                                            |
| 315/70 R22,5                                                            | R = 467 mm          | If = 4,22                                                 |                            | Ti = 45035 N                                            |
| 295/80 R22,5                                                            | R = 487 mm          | If = 4,05                                                 |                            | Ti = 43185 N                                            |
| 385/65 R22,5                                                            | R = 497 mm          | If = 3,97                                                 |                            | Ti = 42316 N                                            |
| 315/80 R22,5                                                            | R = 500 mm          | If = 3,94                                                 |                            | Ti = 42062 N                                            |
| 12 R22,5                                                                | R = 504 mm          | If = 3,91                                                 |                            | Ti = 41729 N                                            |
| 13 R22,5                                                                | R = 521 mm          | If = 3,78                                                 |                            | Ti = 40367 N                                            |

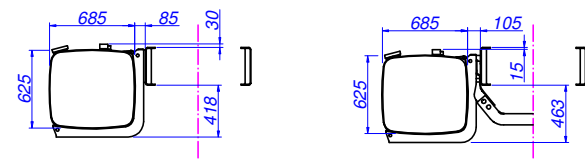


| Varianti/variants | Versioni/versions     | A    | B    |
|-------------------|-----------------------|------|------|
| I??               | ??CB????????????P?? ? | 2835 | 1365 |
| I??               | ??CB????????????Q?? ? | 2880 | 1320 |
| I??               | ??CB????????????R?? ? | 2790 | 1410 |



Nota (\*): vedere scheda informativa  
Note (\*): see information document

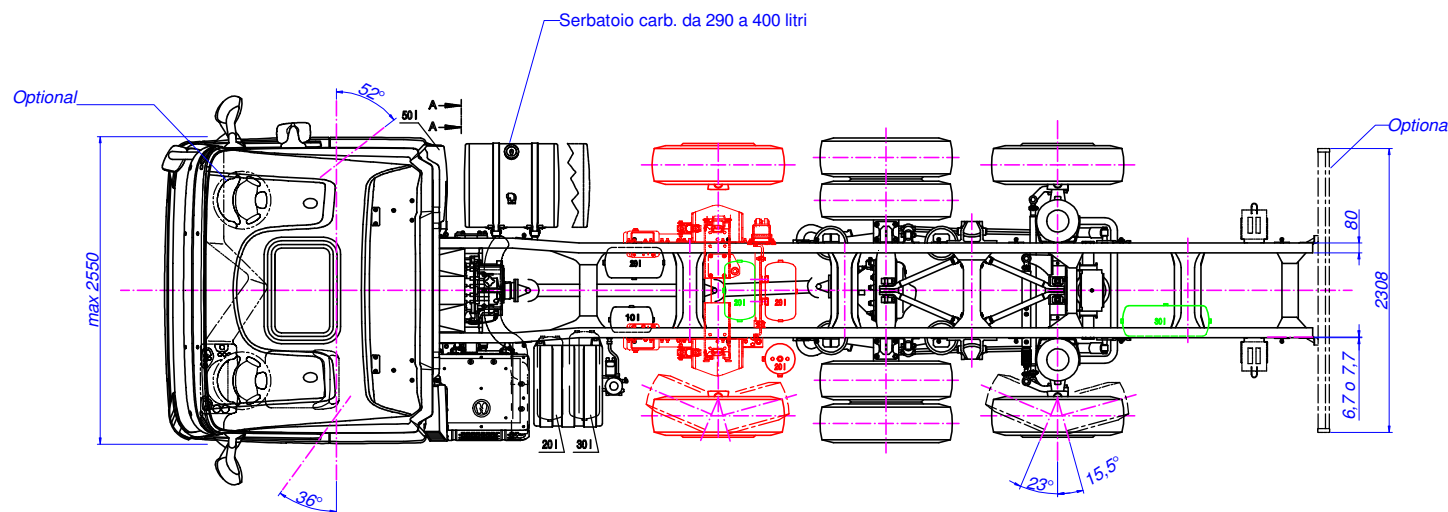
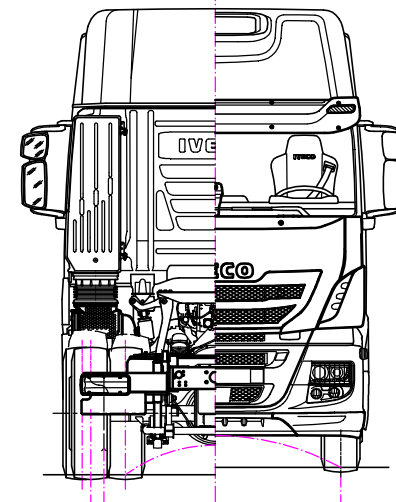
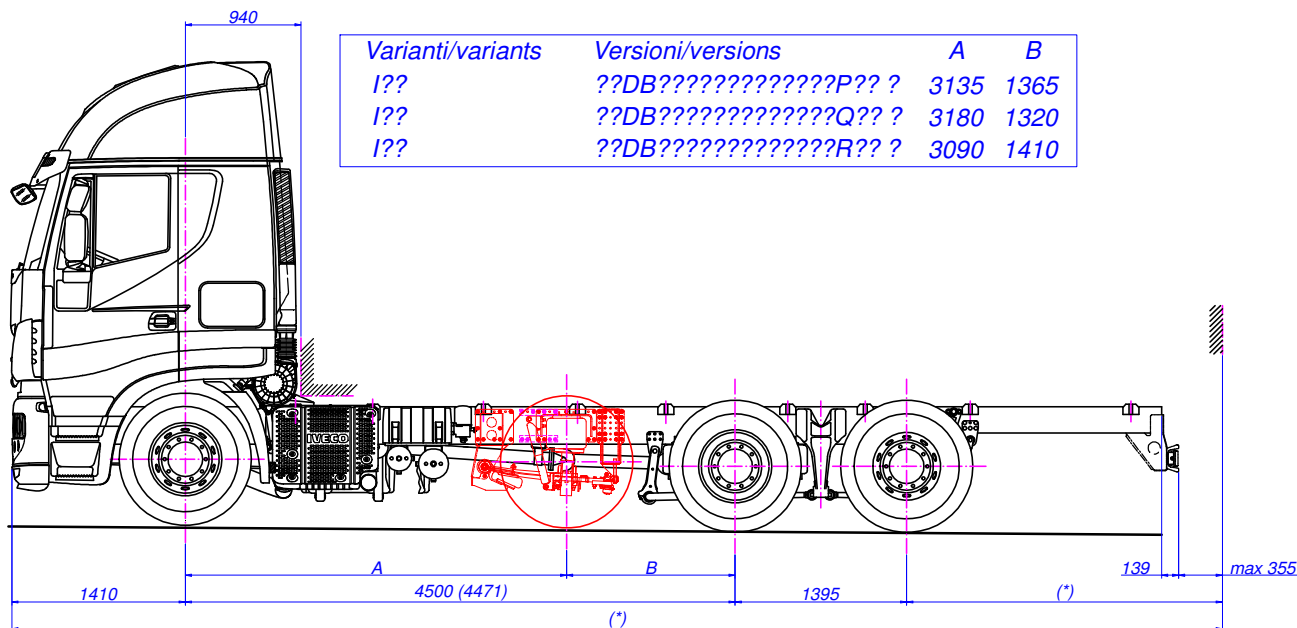
Vista A / View A



| Pos.                                                                                                                 | Q.tà           | Designazione, materiale, dimensione, ecc. |                            |                                                                                                     |                                                     |               | Codice           | Modifiche |
|----------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------|---------------|------------------|-----------|
| Materiale                                                                                                            | Unificazione   | Trattamento                               | Caratteristiche meccaniche | Massa kg                                                                                            | Unità di misura lineari: mm angoli: "sessagesimali" | Codice grezzo | Formato disegno  |           |
| Disegnato da                                                                                                         | Controllato da | Data                                      | Scala                      | Quote senza indicazione di tolleranza secondo tabella UNI EN 22768/1, con grado di precisione medio |                                                     |               | Codice fornitore |           |
| P. Toppano                                                                                                           | P. Martini     | 19.09.2013                                |                            | Disegno di proprietà della S.T. System Truck S.p.A. Vietata la riproduzione non autorizzata.        |                                                     |               | TITOLO           |           |
| S.T. System Truck S.p.A.<br>via Paesa, 28 - I 46048 Roverbella (MN)<br>tel. +39 0376 696809 - info@stsystemtruck.com |                |                                           |                            | FIGURINO IVECO STRALIS AS 260 YPS EURO 6<br>CONF. 1+3 - PASSO 4200 MM - TIPO: ST 2Y3C               |                                                     |               | N° DISEGNO       |           |
|                                                                                                                      |                |                                           |                            |                                                                                                     |                                                     |               | 55.01.03.0031    |           |
|                                                                                                                      |                |                                           |                            |                                                                                                     |                                                     |               | Modifica         | Foglio    |
|                                                                                                                      |                |                                           |                            |                                                                                                     |                                                     |               | 3 - 24.11.2015   | 1/1       |

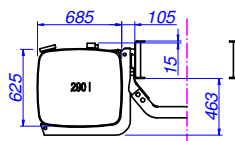
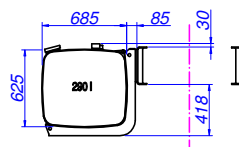
Rev. 3 del 24.11.2015 : aggiunto foglio 2 (solo per schema produzione) - PT  
Rev. 2 del 12.01.2015 : aggiornato cartiglio - PT  
Rev. 1 del 21.10.2014 : aggiunte versioni con interasse (2°-3° asse) di 1320 mm e 1410 mm - PT





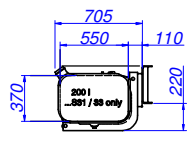
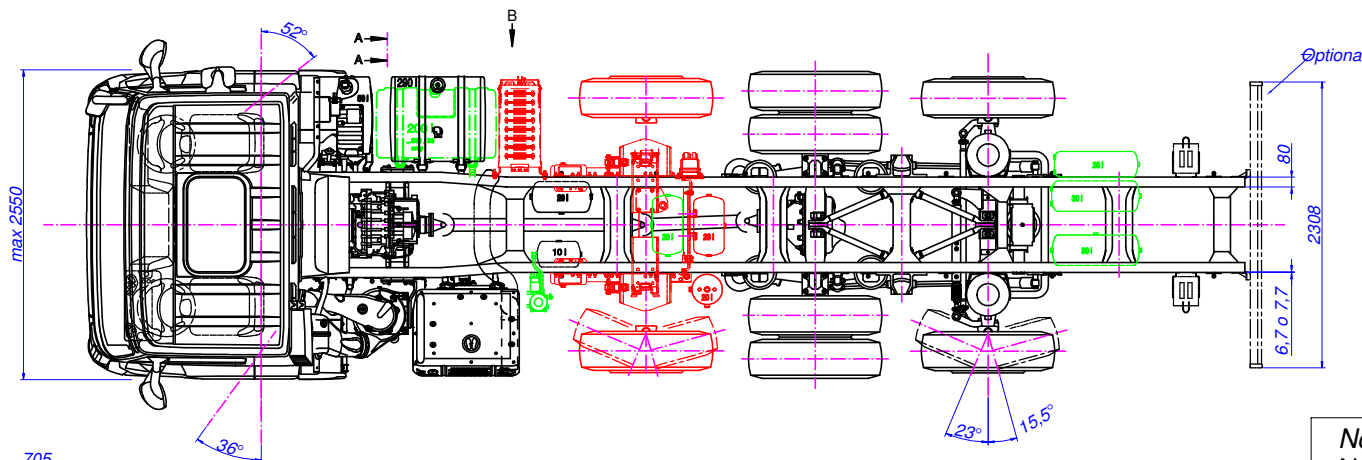
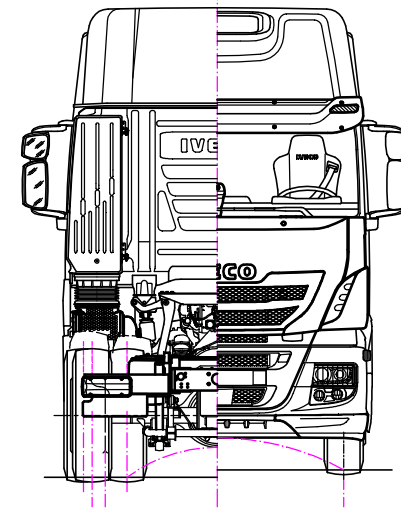
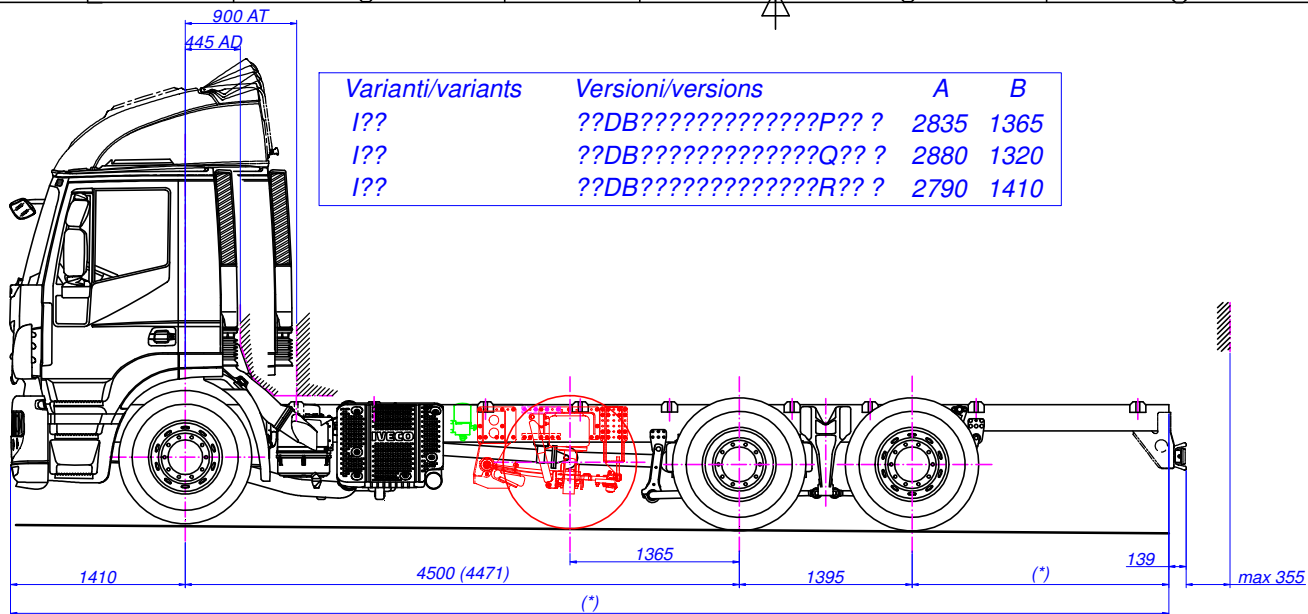
Nota (\*): vedere scheda informativa  
Note (\*): see information document

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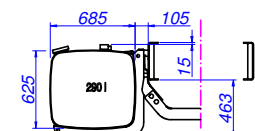
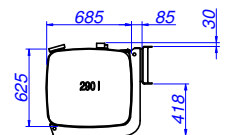


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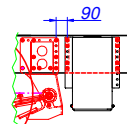
Disegno per omologazione  
Drawing for type-approval



View A



Vista B / View B



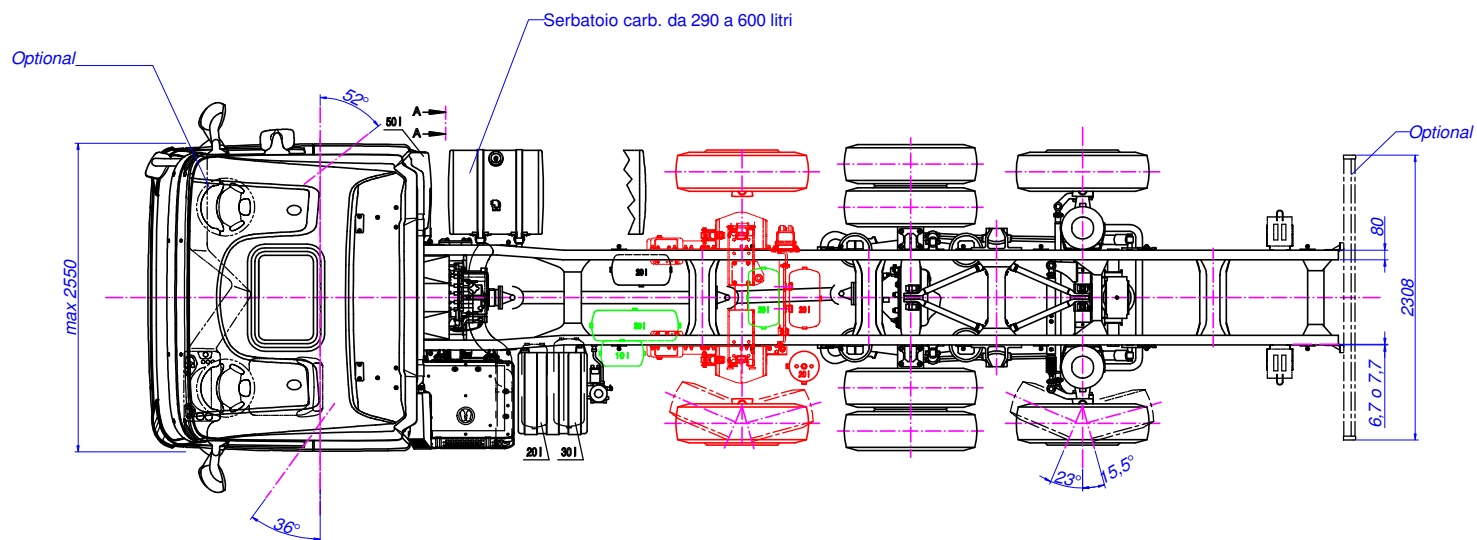
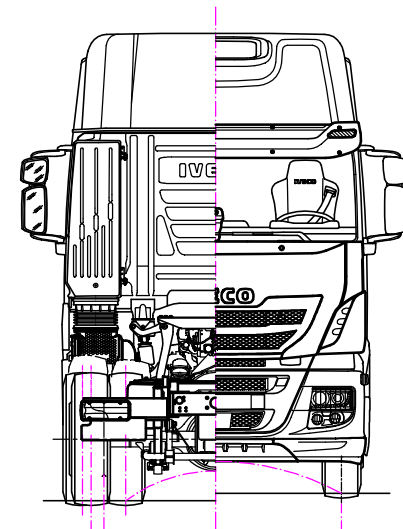
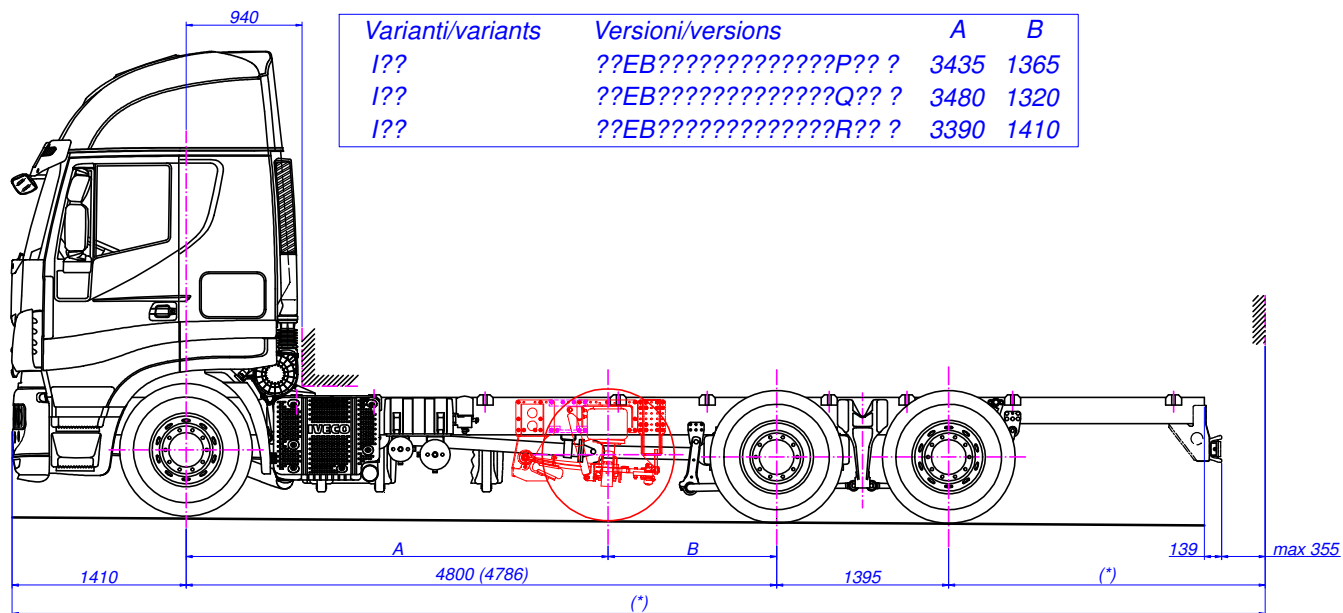
Nota (\*): vedere scheda informativa  
Note (\*): see information document

| Pos.                                                                                                                 | Q.tà           | Designazione, materiale, dimensione, ecc. |                            |                                                                                    |                                                                                                     |                  | Codice          | Modifiche |
|----------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------|----------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------|-----------------|-----------|
| Materiale                                                                                                            | Unificazione   | Trattamento                               | Caratteristiche meccaniche | Massa kg                                                                           | Unità di misura lineari: mm angoli: °                                                               | Codice grezzo    | Formato disegno |           |
| Disegnato da                                                                                                         | Controllato da | Data                                      | Scala                      |                                                                                    | Quote senza indicazione di tolleranza secondo tabella UNI EN 22768/1, con grado di precisione medio | Codice fornitore |                 |           |
| P. Toppiano                                                                                                          | P. Martini     | 19.09.2013                                |                            |                                                                                    |                                                                                                     |                  |                 |           |
| S.T. System Truck S.p.A.<br>via Paesa, 28 - I 46048 Roverbella (MN)<br>tel. +39 0376 696809 - info@stsystemtruck.com |                |                                           |                            | TITOLO<br>FIGURINO IVECO STRALIS AD/AT 260 YPS EURO 6<br>CONF. 1+3 - PASSO 4500 MM |                                                                                                     |                  |                 |           |
| N° DISEGNO<br>55.01.03.0034                                                                                          |                |                                           |                            | Modifica<br>3 - 22.04.2015                                                         |                                                                                                     | Foglio<br>1/1    |                 |           |

E24\*13R11/14\*0056\*00

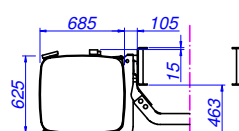
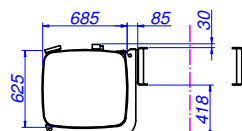
Rev. 3 del 22.04.2015 : aggiunti fazzoletti cod. 01200115 - PT  
Rev. 2 del 12.01.2015 : aggiornato cartiglio - PT  
Rev. 1 del 21.10.2014 : aggiunte versioni con interasse (2°-3° asse) in alternativa - PT

| Varianti/variants | Versioni/versions     | A    | B    |
|-------------------|-----------------------|------|------|
| I??               | ??EB????????????P?? ? | 3435 | 1365 |
| I??               | ??EB????????????Q?? ? | 3480 | 1320 |
| I??               | ??EB????????????R?? ? | 3390 | 1410 |



Nota (\*): vedere scheda informativa  
Note (\*): see information document

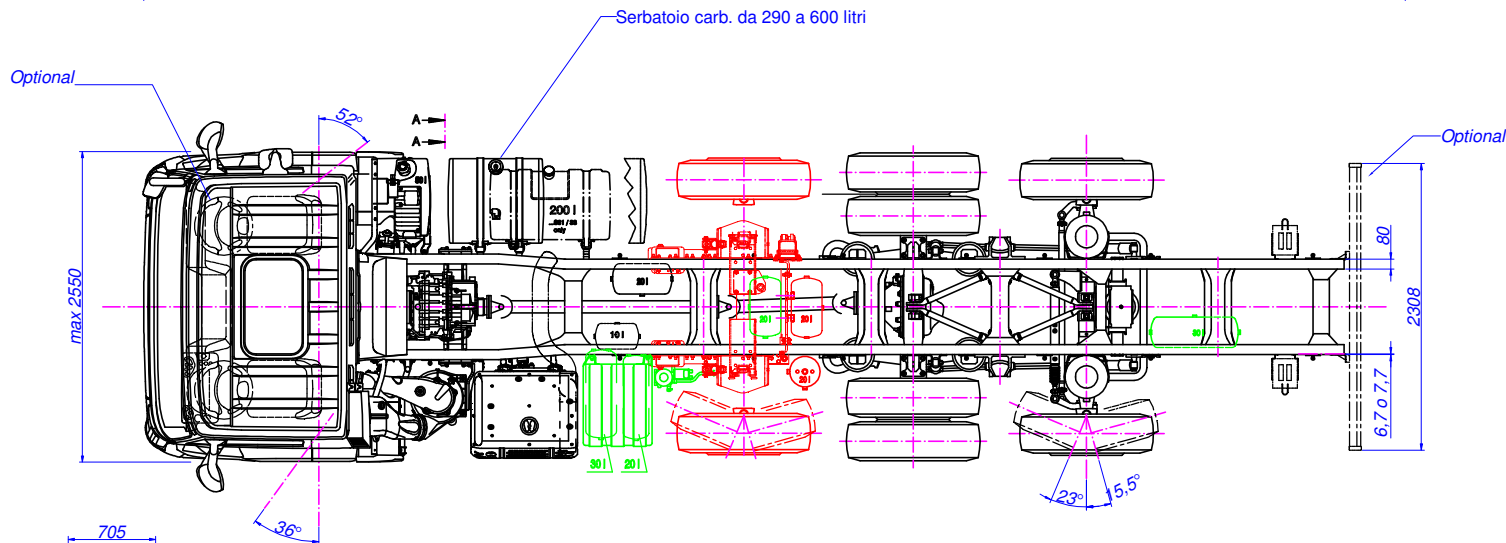
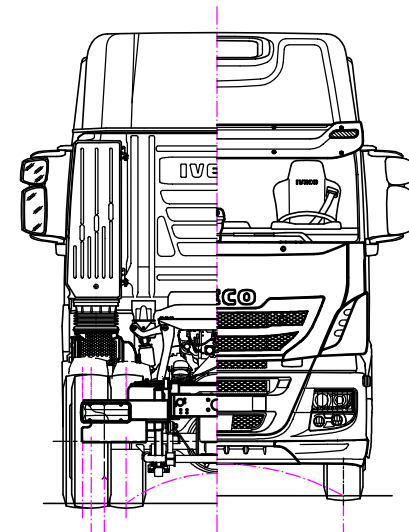
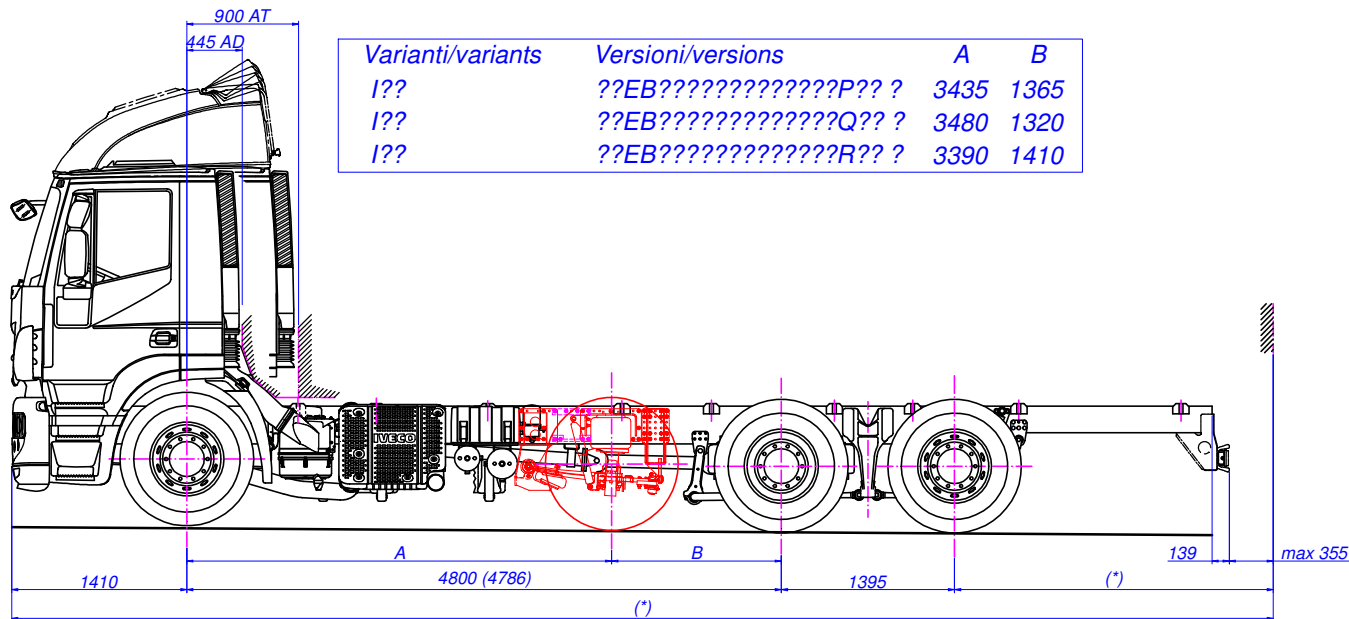
*Vista A / View A*

[illegible]

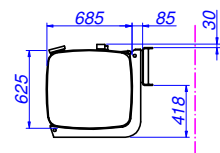
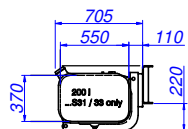
**E24\*13R11/14\*0056\*00**

Rev. 2 del 12.01.2015 : aggiornato cartiglio - PT

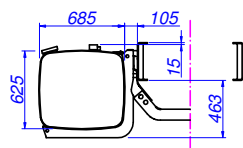
| Varianti/variants | Versioni/versions     | A    | B    |
|-------------------|-----------------------|------|------|
| I??               | ??EB????????????P?? ? | 3435 | 1365 |
| I??               | ??EB????????????Q?? ? | 3480 | 1320 |
| I??               | ??EB????????????R?? ? | 3390 | 1410 |



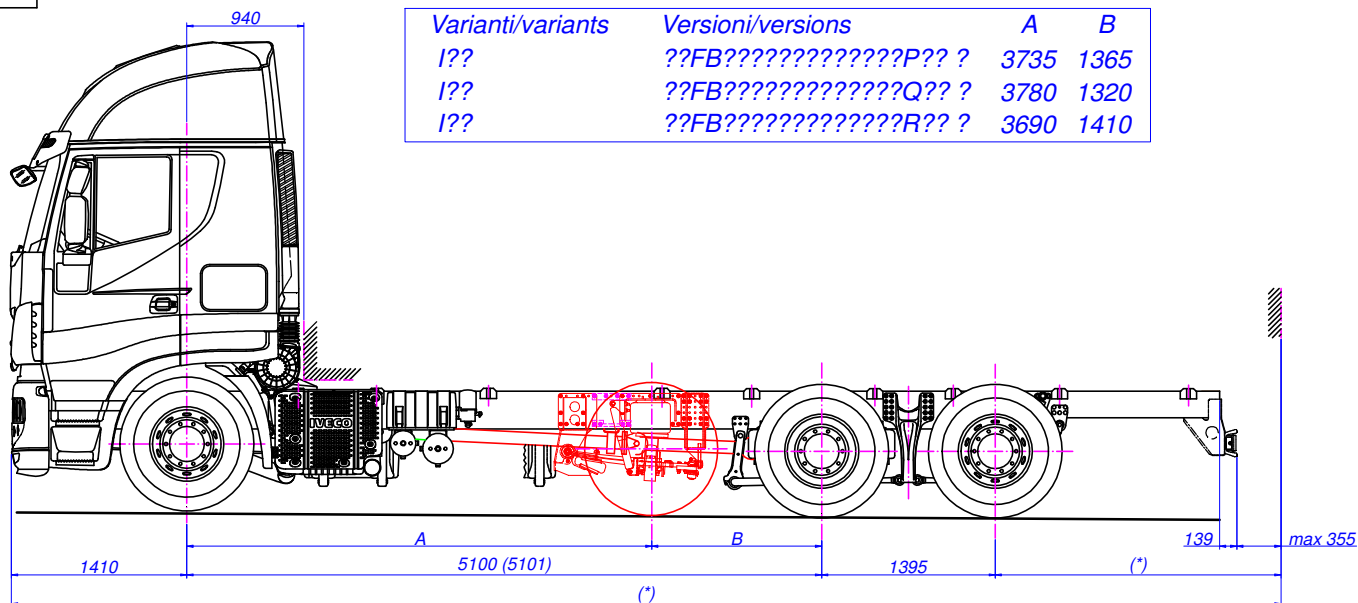
Nota (\*): vedere scheda informativa  
Note (\*): see information document



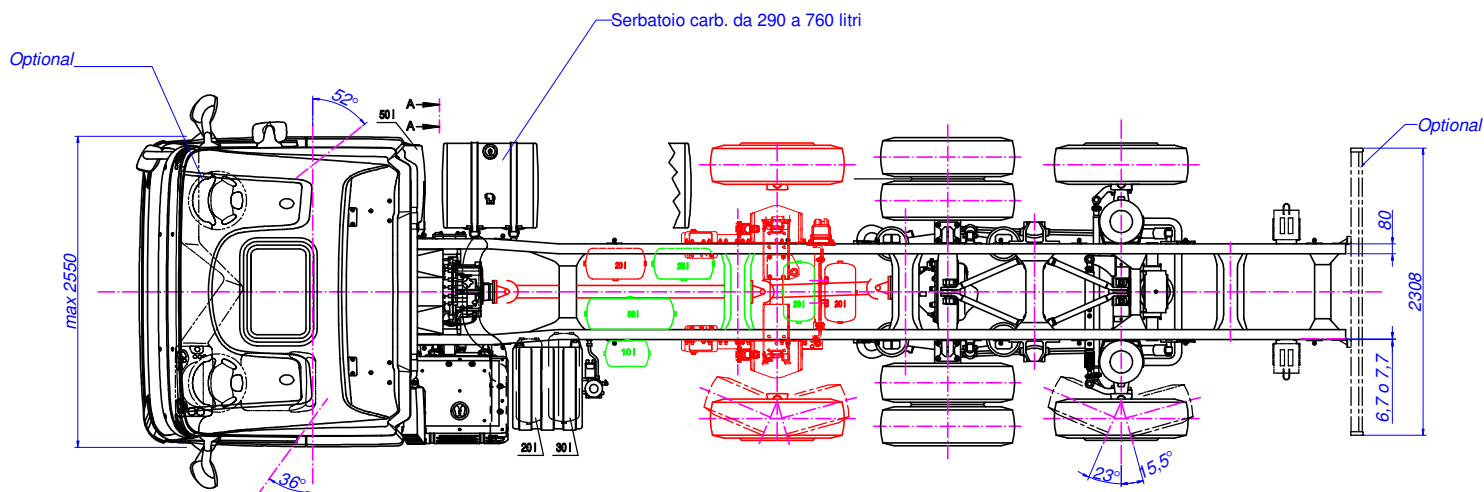
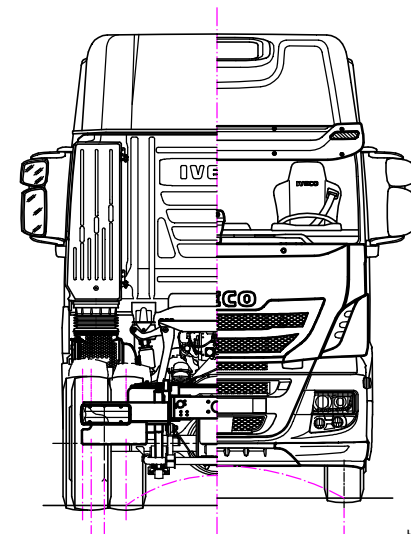
Vista A / View A



| Pos.                                                                                                                          | Q.tà           | Designazione, materiale, dimensione, ecc. |                            |                                                                                                                                                                                                  |                                                                                                     |                  | Codice          | Modifiche |
|-------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------|-----------------|-----------|
| Materiale                                                                                                                     | Unificazione   | Trattamento                               | Caratteristiche meccaniche | Massa kg                                                                                                                                                                                         | Unità di misura lineari: mm angoli:°sessagesimali                                                   | Codice grezzo    | Formato disegno |           |
| Disegnato da                                                                                                                  | Controllato da | Data                                      | Scala                      |                                                                                                                                                                                                  | Quote senza indicazione di tolleranza secondo tabella UNI EN 22768/1, con grado di precisione medio | Codice fornitore |                 |           |
| P. Toppiano                                                                                                                   | P. Martini     | 19.09.2013                                |                            |                                                                                                                                                                                                  |                                                                                                     |                  |                 |           |
| <p>S.T. System Truck S.p.A.<br/>via Paesa, 28 - I 46048 Roverbella (MN)<br/>tel. +39 0376 696809 - info@stsystemtruck.com</p> |                |                                           |                            | <p>Disegno di proprietà della S.T. System Truck S.p.A. Vietata la riproduzione non autorizzata.</p> <p>Property of S.T. System Truck S.p.A. Reproduction not permitted, all rights reserved.</p> |                                                                                                     |                  |                 |           |
| TITOLO                                                                                                                        |                |                                           |                            | FIGURINO IVECO STRALIS AD/AT 260 YPS EURO 6<br>CONF. 1+3 - PASSO 4800 MM - TIPO: ST 2Y3C                                                                                                         |                                                                                                     |                  |                 |           |
| N° DISEGNO                                                                                                                    |                |                                           |                            | 55.01.03.0036                                                                                                                                                                                    |                                                                                                     |                  |                 |           |
|                                                                                                                               |                |                                           |                            | Modifica 2 - 12.01.2015                                                                                                                                                                          |                                                                                                     |                  |                 |           |
|                                                                                                                               |                |                                           |                            | Foglio 1/1                                                                                                                                                                                       |                                                                                                     |                  |                 |           |

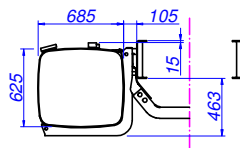
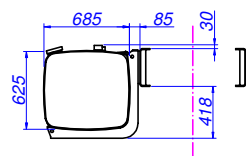


| Varianti/variants | Versioni/versions     | A    | B    |
|-------------------|-----------------------|------|------|
| I??               | ??FB????????????P?? ? | 3735 | 1365 |
| I??               | ??FB????????????Q?? ? | 3780 | 1320 |
| I??               | ??FB????????????R?? ? | 3690 | 1410 |



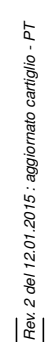
Nota (\*): vedere scheda informativa  
Note (\*): see information document

Vista A / View A

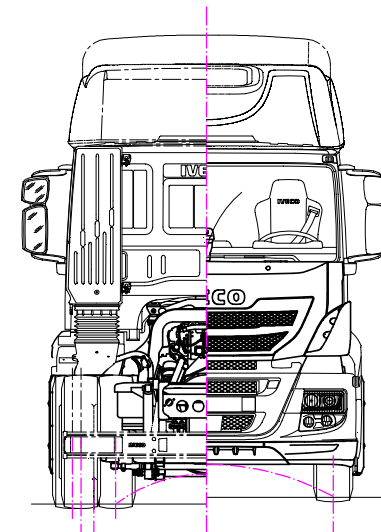
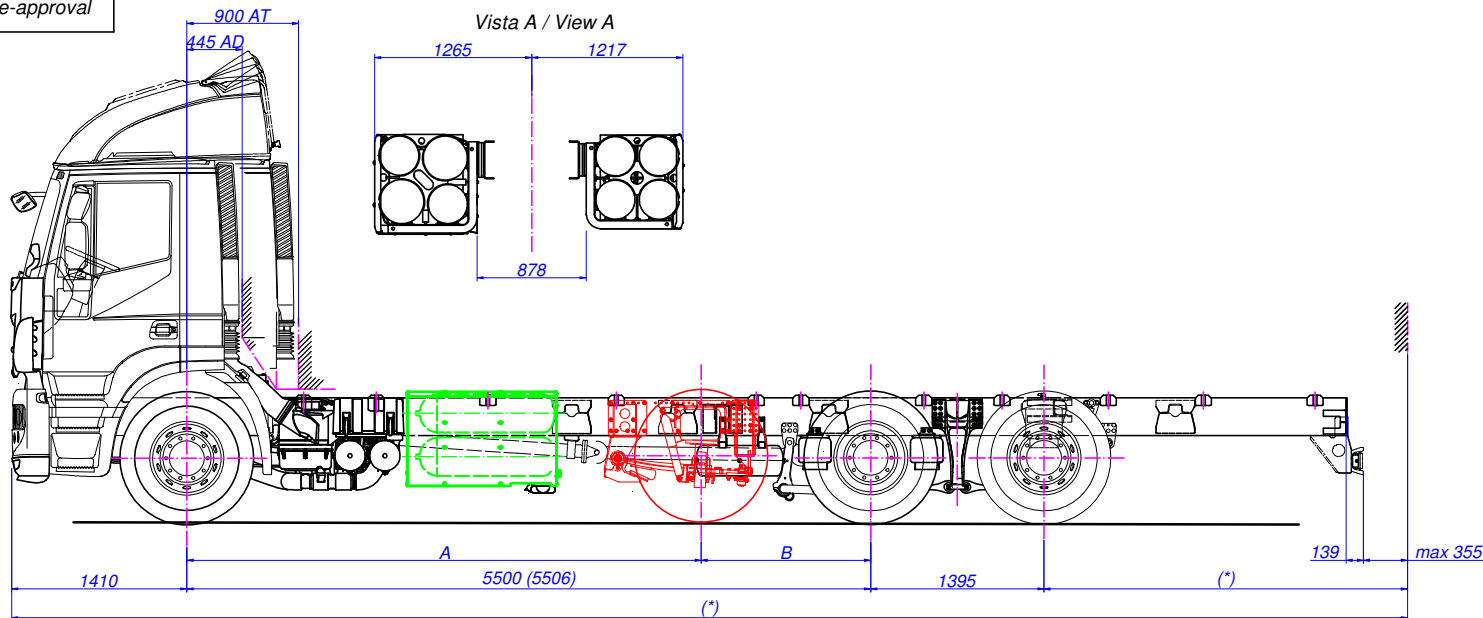


| Pos.                                                                                                                                                                                                                | Q.tà                      | Designazione, materiale, dimensione, ecc. |                            |                                                                                                                                                                                                  |                                                                                                     |                  | Codice          | Modifiche |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------------------------------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------|-----------------|-----------|
| Materiale                                                                                                                                                                                                           | Unificazione              | Trattamento                               | Caratteristiche meccaniche | Massa kg                                                                                                                                                                                         | Unità di misura lineari: mm angoli:°sessagesimali                                                   | Codice grezzo    | Formato disegno |           |
| Disegnato da P. Toppino                                                                                                                                                                                             | Controllato da P. Martini | Data 19.09.2013                           | Scala                      |                                                                                                                                                                                                  | Quote senza indicazione di tolleranza secondo tabella UNI EN 22768/1, con grado di precisione medio | Codice fornitore |                 |           |
|  <p>S.T. System Truck S.p.A.<br/>via Paesa, 28 - I 46048 Roverbella (MN)<br/>tel. +39 0376 696809 - info@stsystemtruck.com</p> |                           |                                           |                            | <p>Disegno di proprietà della S.T. System Truck S.p.A. Vietata la riproduzione non autorizzata.</p> <p>Property of S.T. System Truck S.p.A. Reproduction not permitted, all rights reserved.</p> |                                                                                                     |                  |                 |           |
| <p>TITOLO</p> <p>FIGURINO IVECO STRALIS AS 260 YPS EURO 6<br/>CONF. 1+3 - PASSO 5100 MM - TIPO: ST 2Y3C</p>                                                                                                         |                           |                                           |                            | <p>N° DISEGNO</p> <p>55.01.03.0037</p>                                                                                                                                                           |                                                                                                     |                  |                 |           |
|                                                                                                                                                                                                                     |                           |                                           |                            | <p>Modifica</p> <p>2 - 12.01.2015</p>                                                                                                                                                            |                                                                                                     |                  |                 |           |
|                                                                                                                                                                                                                     |                           |                                           |                            | <p>Foglio</p> <p>1/1</p>                                                                                                                                                                         |                                                                                                     |                  |                 |           |

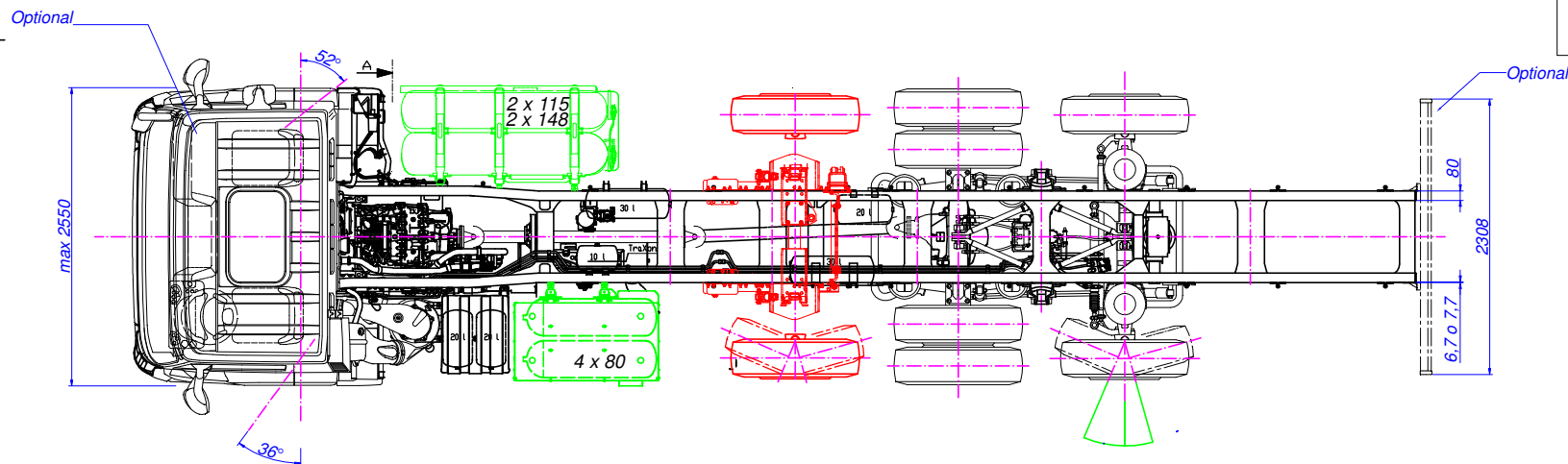
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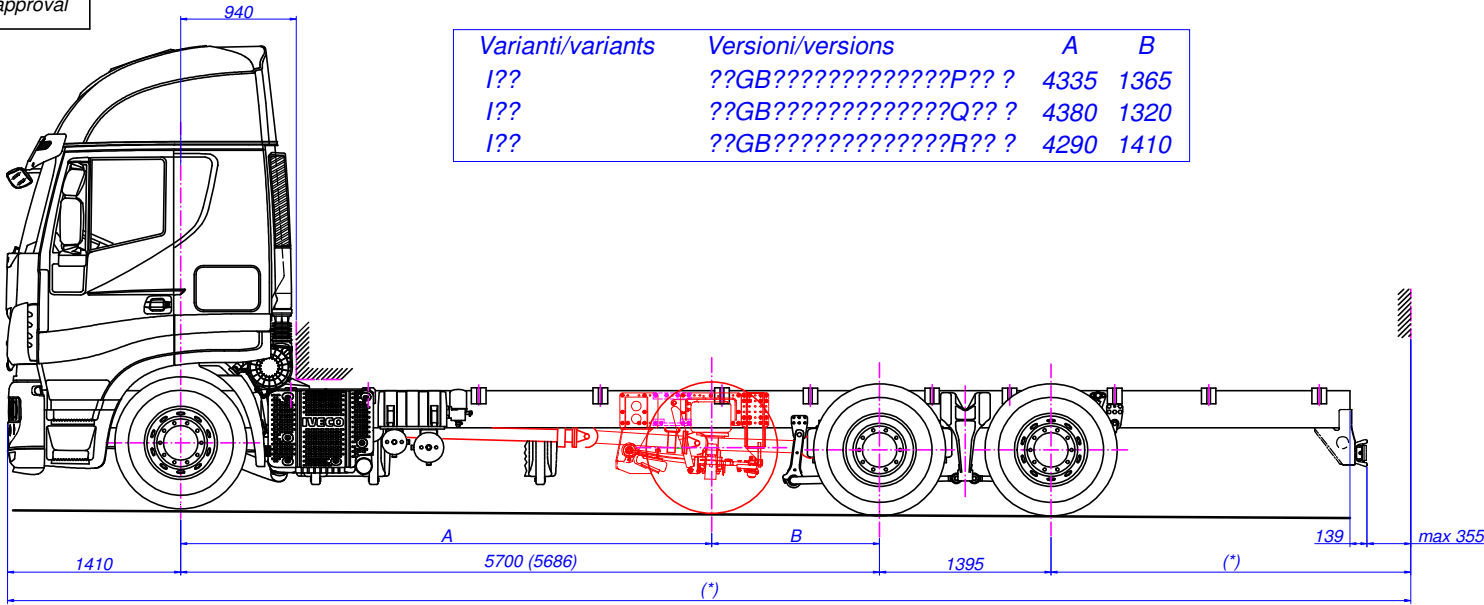


Nota (\*): vedere scheda informativa  
Note (\*): see information document

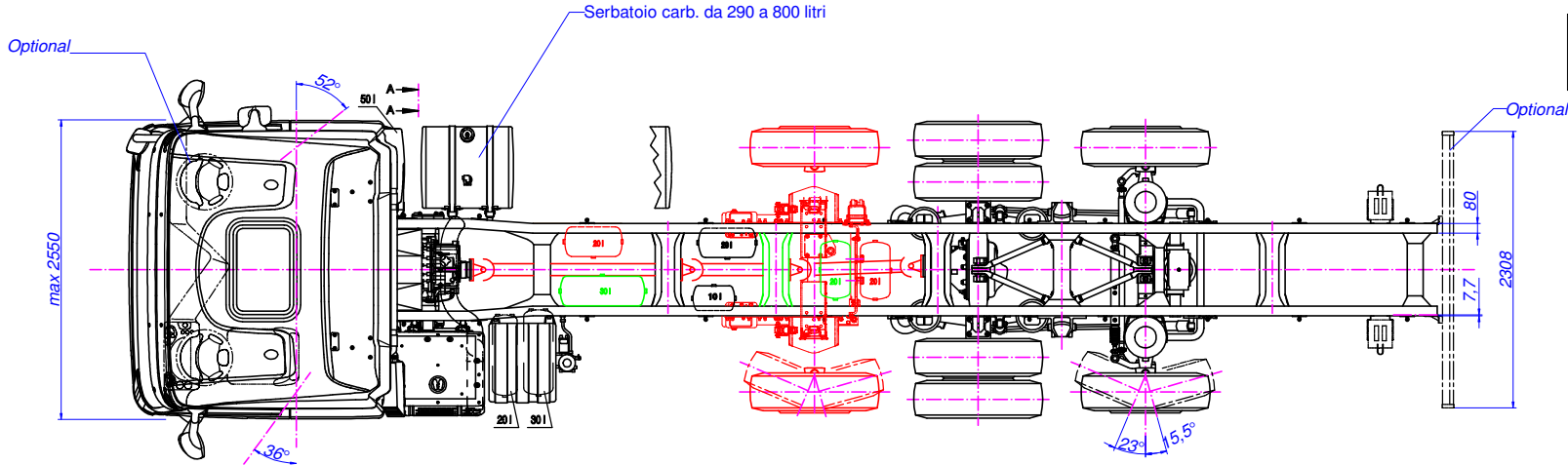
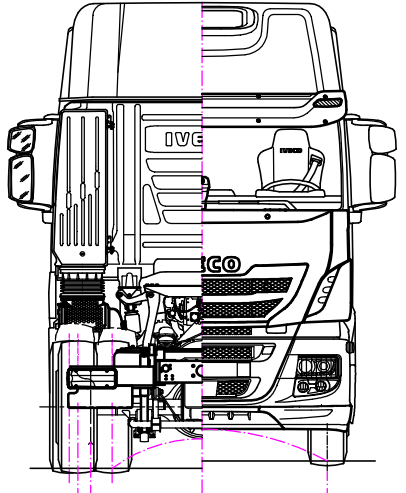


| Varianti/variants | Versioni/versions     | A    | B    |
|-------------------|-----------------------|------|------|
| ICC               | G9LB????????????P?? ? | 4135 | 1365 |
| ICC               | G9LB????????????Q?? ? | 4180 | 1320 |
| ICC               | G9LB????????????R?? ? | 4090 | 1410 |

| Pos.                                                                                                                 | Q.tà           | Designazione, materiale, dimensione, ecc. |                                                                                              |                                                                                       |                                                                                                               | Codice                                            | Modifiche                  |                  |
|----------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------|----------------------------|------------------|
| Materiale                                                                                                            | Unificazione   | Trattamento                               | Caratteristiche meccaniche                                                                   |                                                                                       | Massa kg                                                                                                      | Unità di misura lineari: mm angoli:°sessagesimali | Codice grezzo              | Formato disegno  |
| .....                                                                                                                | .....          | .....                                     | .....                                                                                        |                                                                                       | .....                                                                                                         | .....                                             | .....                      | .....            |
| Disegnata da                                                                                                         | Controllato da | Data                                      | Scala                                                                                        |  | Quote senza indicazione di tolleranza secondo tabella UNI EN 22768/1, con grado di precisione medio           |                                                   |                            | Codice fornitore |
| P. Toppano                                                                                                           | P. Martini     | 19.09.2013                                | .....                                                                                        |                                                                                       |                                                                                                               |                                                   |                            | .....            |
|                                 |                |                                           | Disegno di proprietà della S.T. System Truck S.p.A. Vietata la riproduzione non autorizzata. |                                                                                       | TITOLO<br>FIGURINO IVECO STRALIS AD/AT 260 YPS EURO 6 CNG CURSOR<br>CONF. 1+3 - PASSO 5500 MM - TIPO: ST 2Y3C |                                                   |                            |                  |
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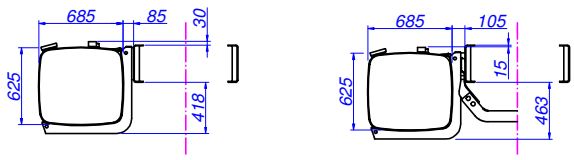


| Varianti/variants | Versioni/versions     | A    | B    |
|-------------------|-----------------------|------|------|
| I??               | ??GB????????????P?? ? | 4335 | 1365 |
| I??               | ??GB????????????Q?? ? | 4380 | 1320 |
| I??               | ??GB????????????R?? ? | 4290 | 1410 |

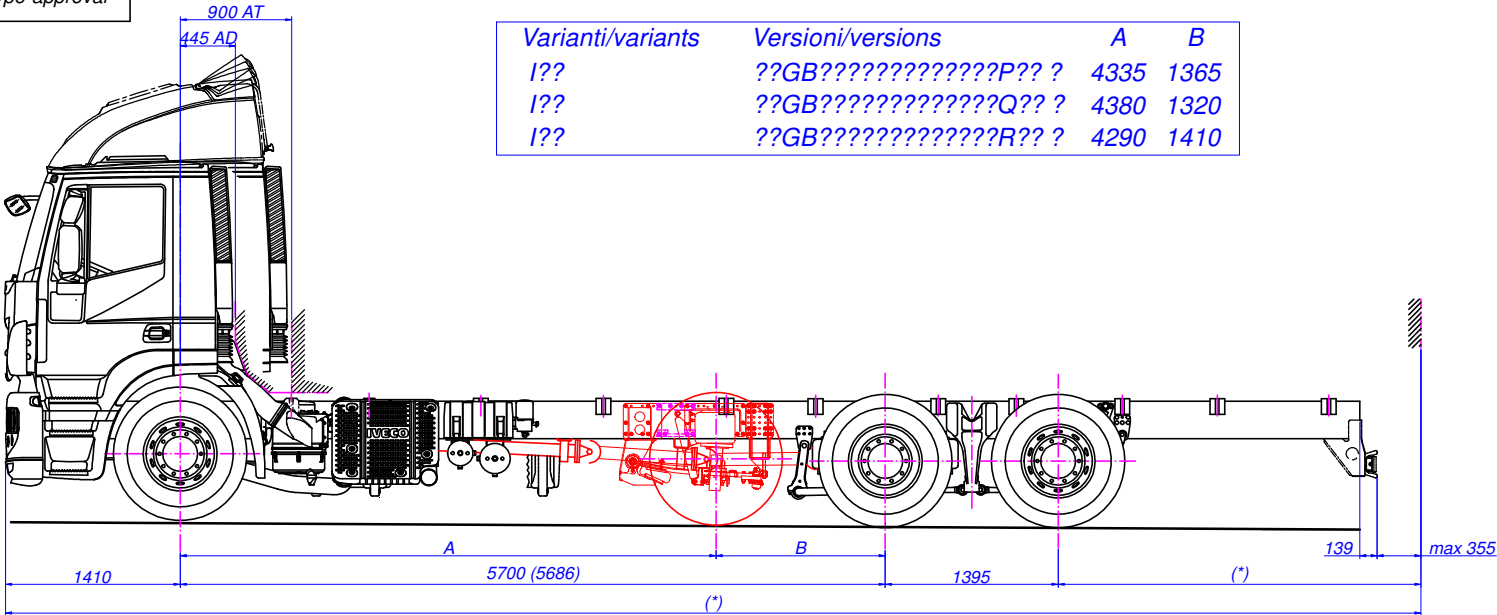


Nota (\*): vedere scheda informativa  
Note (\*): see information document

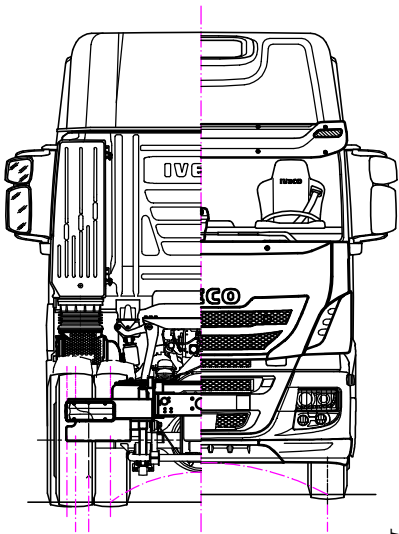
Vista A / View A



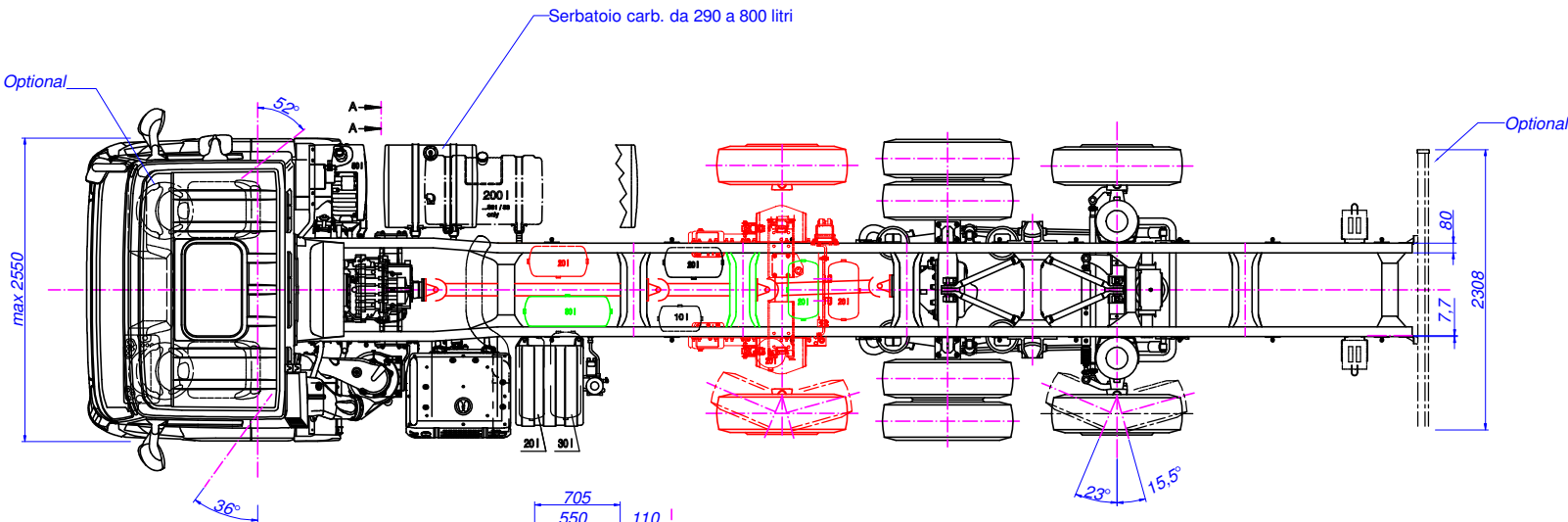
| Pos.                                                                                     | Q.tà           | Designazione, materiale, dimensione, ecc. |                            |                                                                                       |                                                                                                     | Codice           | Modifiche       |
|------------------------------------------------------------------------------------------|----------------|-------------------------------------------|----------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------|-----------------|
| Materiale                                                                                | Unificazione   | Trattamento                               | Caratteristiche meccaniche | Massa kg                                                                              | Unità di misura lineari: mm angoli: "sessagesimali                                                  | Codice grezzo    | Formato disegno |
| Disegnato da                                                                             | Controllato da | Data                                      | Scala                      |                                                                                       | Quote senza indicazione di tolleranza secondo tabella UNI EN 22768/1, con grado di precisione medio | Codice fornitore |                 |
| P. Toppiano                                                                              | P. Martini     | 19.09.2013                                |                            |                                                                                       |                                                                                                     |                  |                 |
| S.T. System Truck S.p.A.                                                                 |                |                                           |                            | TITOLO                                                                                |                                                                                                     |                  |                 |
| via Paesa, 28 - I 46048 Roverbella (MN)<br>tel. +39 0376 696809 - info@stsystemtruck.com |                |                                           |                            | FIGURINO IVECO STRALIS AS 260 YPS EURO 6<br>CONF. 1+3 - PASSO 5700 MM - TIPO: ST 2Y3C |                                                                                                     |                  |                 |
| N° DISEGNO                                                                               |                |                                           |                            | 55.01.03.0039                                                                         |                                                                                                     | Modifica         | Foglio          |
|                                                                                          |                |                                           |                            |                                                                                       |                                                                                                     | 2 - 12.01.2015   | 1/1             |



| Varianti/variants | Versioni/versions     | A    | B    |
|-------------------|-----------------------|------|------|
| I??               | ??GB????????????P?? ? | 4335 | 1365 |
| I??               | ??GB????????????Q?? ? | 4380 | 1320 |
| I??               | ??GB????????????R?? ? | 4290 | 1410 |



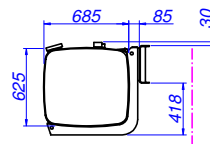
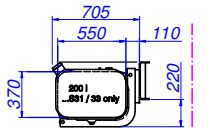
Nota (\*): vedere scheda informativa  
Note (\*): see information document



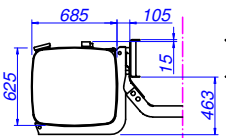
Serbatoio carb. da 290 a 800 litri

Optional

Optional

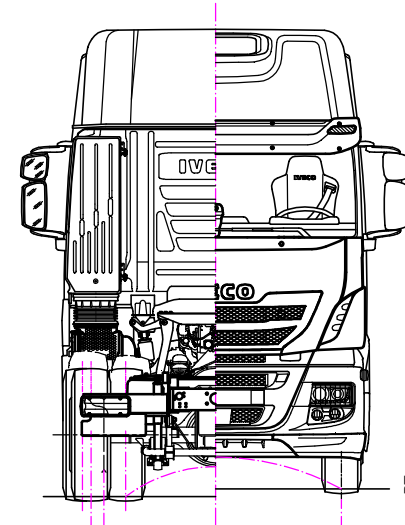
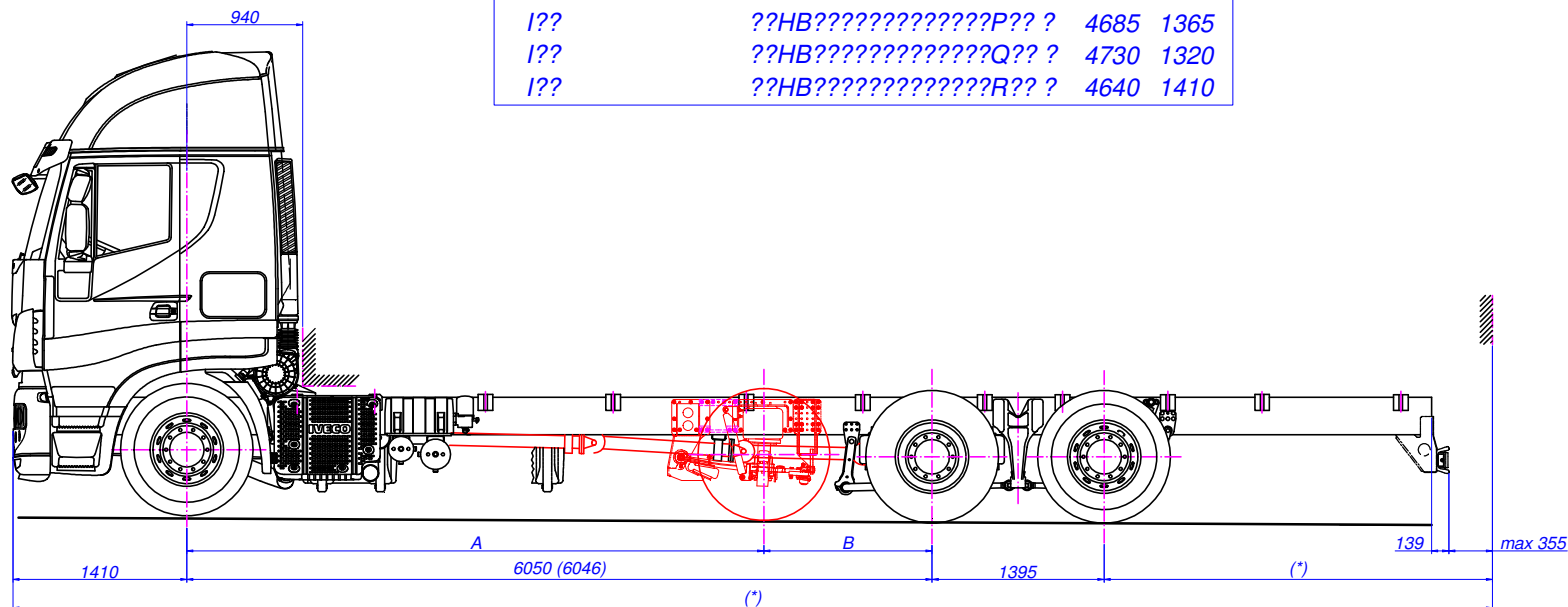


Vista A / View A

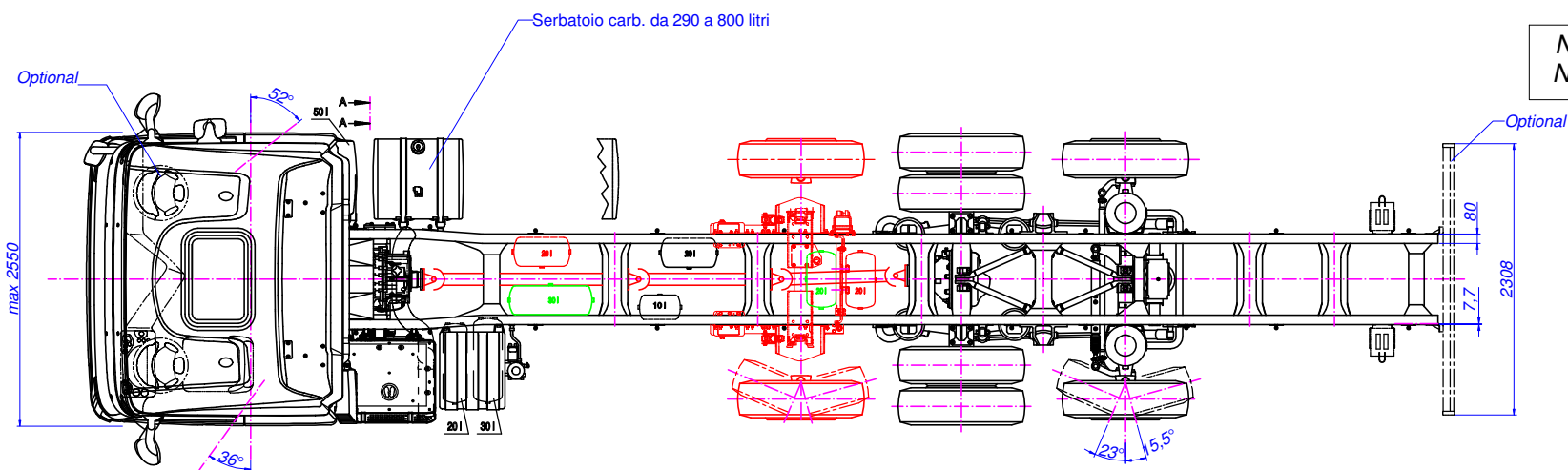


| Pos.                                                                                                           | Q.tà           | Designazione, materiale, dimensione, ecc. | Codice                     | Modifiche                                          |
|----------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------|----------------------------|----------------------------------------------------|
| Materiale                                                                                                      | Unificazione   | Trattamento                               | Caratteristiche meccaniche | Massa kg                                           |
| Disegnato da                                                                                                   | Controllato da | Data                                      | Scala                      | Unità di misura lineari: mm angoli: °sessagesimali |
| P. Toppino                                                                                                     | P. Martini     | 19.09.2013                                | .....                      | .....                                              |
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| S.T. System Truck S.p.A. via Paesa, 28 - I 46048 Roverbella (MN) tel. +39 0376 696809 - info@stsystemtruck.com |                |                                           |                            |                                                    |
| TITOLO                                                                                                         |                |                                           |                            |                                                    |
| FIGURINO IVECO STRALIS AD/AT 260 YPS EURO 6 CONF. 1+3 - PASSO 5700 MM - TIPO: ST 2Y3C                          |                |                                           |                            |                                                    |
| N° DISEGNO                                                                                                     |                |                                           |                            |                                                    |
| 55.01.03.0040                                                                                                  |                |                                           |                            |                                                    |
| Modifica                                                                                                       |                |                                           |                            |                                                    |
| 2 - 12.01.2015                                                                                                 |                |                                           |                            |                                                    |
| Foglio                                                                                                         |                |                                           |                            |                                                    |
| 1/1                                                                                                            |                |                                           |                            |                                                    |

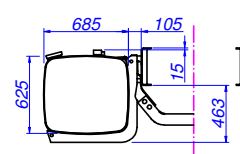
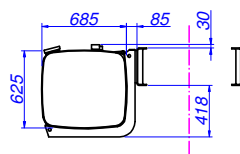
| Varianti/variants | Versioni/versions     | A    | B    |
|-------------------|-----------------------|------|------|
| I??               | ??HB????????????P?? ? | 4685 | 1365 |
| I??               | ??HB????????????Q?? ? | 4730 | 1320 |
| I??               | ??HB????????????R?? ? | 4640 | 1410 |



Nota (\*): vedere scheda informativa  
Note (\*): see information document



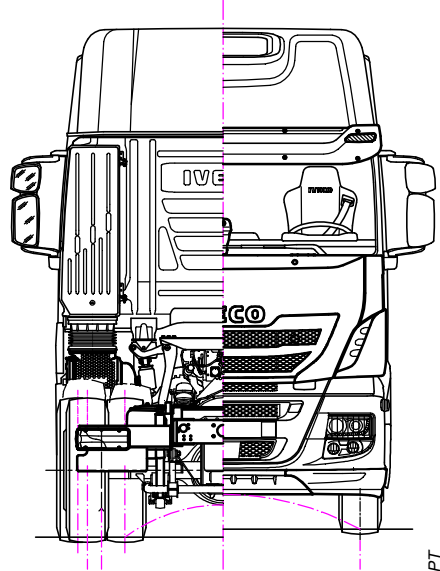
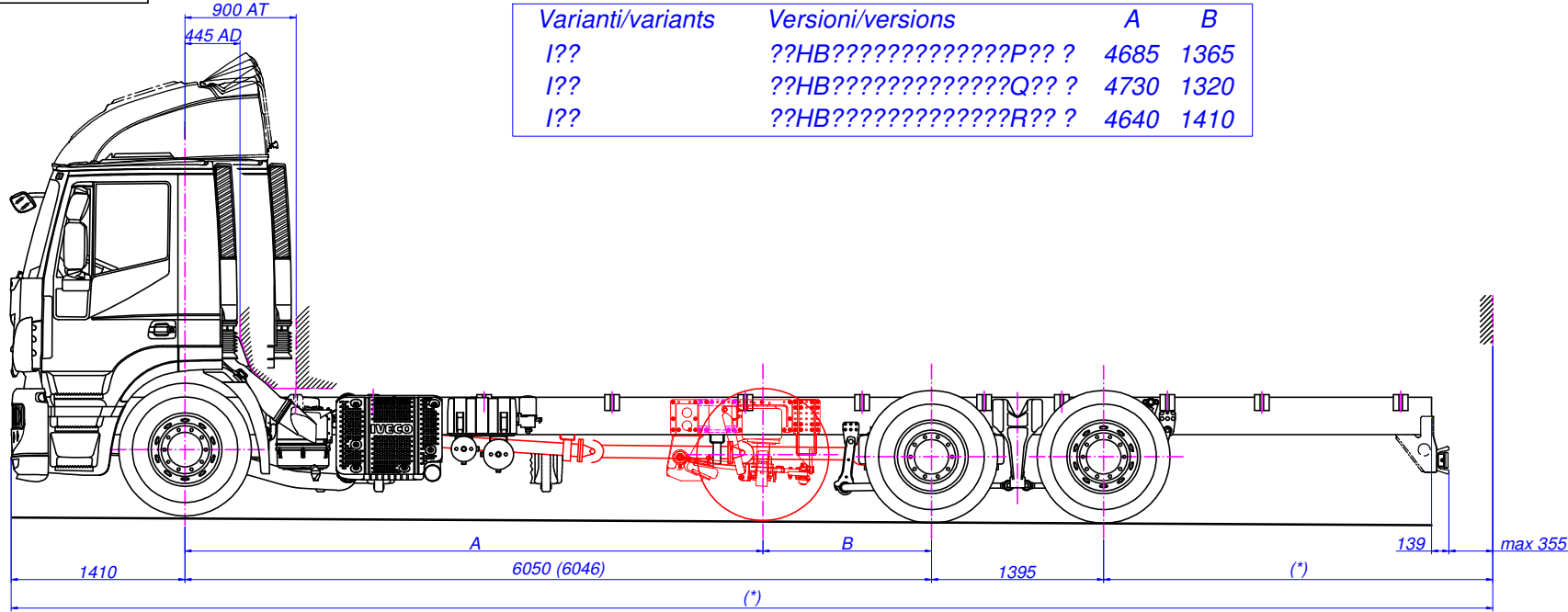
Vista A / View A



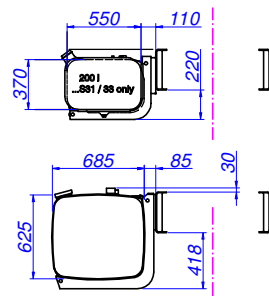
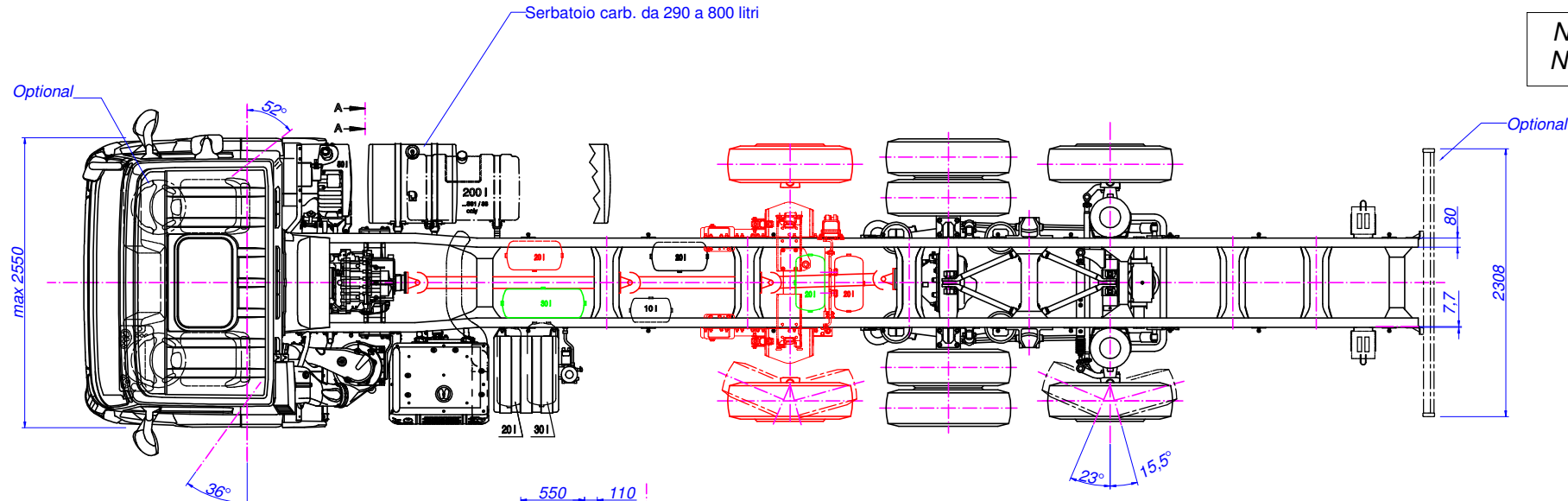
| Pos.                                                                                                                 | Q.tà           | Designazione, materiale, dimensione, ecc. |                            |                                                                                                 |                                                                                                     |               | Codice        | Modifiche        |
|----------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------|----------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------|---------------|------------------|
| Materiale                                                                                                            | Unificazione   | Trattamento                               | Caratteristiche meccaniche | Massa kg                                                                                        | Unità di misura lineari: mm angoli: °                                                               | sessagesimali | Codice grezzo | Formato disegno  |
| Disegnato da                                                                                                         | Controllato da | Data                                      | Scala                      |                                                                                                 | Quote senza indicazione di tolleranza secondo tabella UNI EN 22768/1, con grado di precisione medio |               |               | Codice fornitore |
| P. Toppano                                                                                                           | P. Martini     | 19.09.2013                                |                            |                                                                                                 |                                                                                                     |               |               |                  |
|                                 |                |                                           |                            | Disegno di proprietà della S.T. System Truck S.p.A. Vietata la riproduzione non autorizzata.    |                                                                                                     |               |               |                  |
| S.T. System Truck S.p.A.<br>via Paesa, 28 - I 46048 Roverbella (MN)<br>tel. +39 0376 696809 - info@stsystemtruck.com |                |                                           |                            | TITOLO<br>FIGURINO IVECO STRALIS AS 260 YPS EURO 6<br>CONF. 1+3 - PASSO 6050 MM - TIPO: ST 2Y3C |                                                                                                     |               |               |                  |
|                                                                                                                      |                |                                           |                            | N° DISEGNO<br><b>55.01.03.0041</b>                                                              |                                                                                                     |               |               |                  |
|                                                                                                                      |                |                                           |                            | Modifica<br>2 - 12.01.2015                                                                      |                                                                                                     |               |               |                  |
|                                                                                                                      |                |                                           |                            | Foglio<br>1/1                                                                                   |                                                                                                     |               |               |                  |

Disegno per omologazione  
Drawing for type-approval

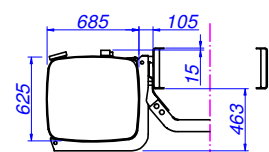
| Varianti/variants | Versioni/versions     | A    | B    |
|-------------------|-----------------------|------|------|
| I??               | ??HB????????????P?? ? | 4685 | 1365 |
| I??               | ??HB????????????Q?? ? | 4730 | 1320 |
| I??               | ??HB????????????R?? ? | 4640 | 1410 |



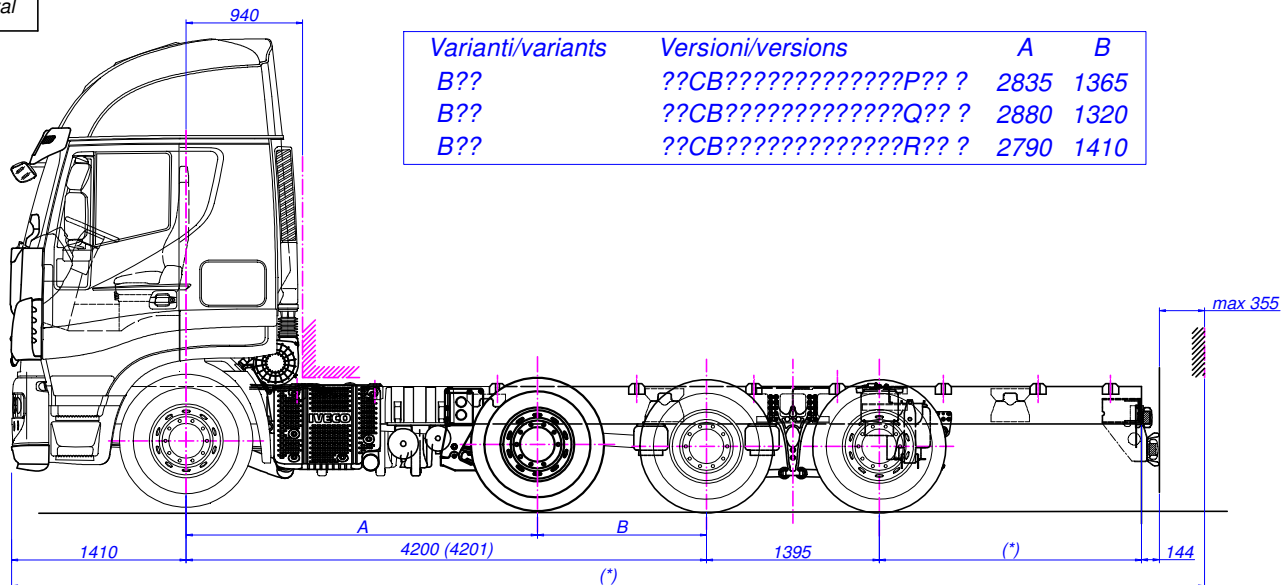
Nota (\*): vedere scheda informativa  
Note (\*): see information document



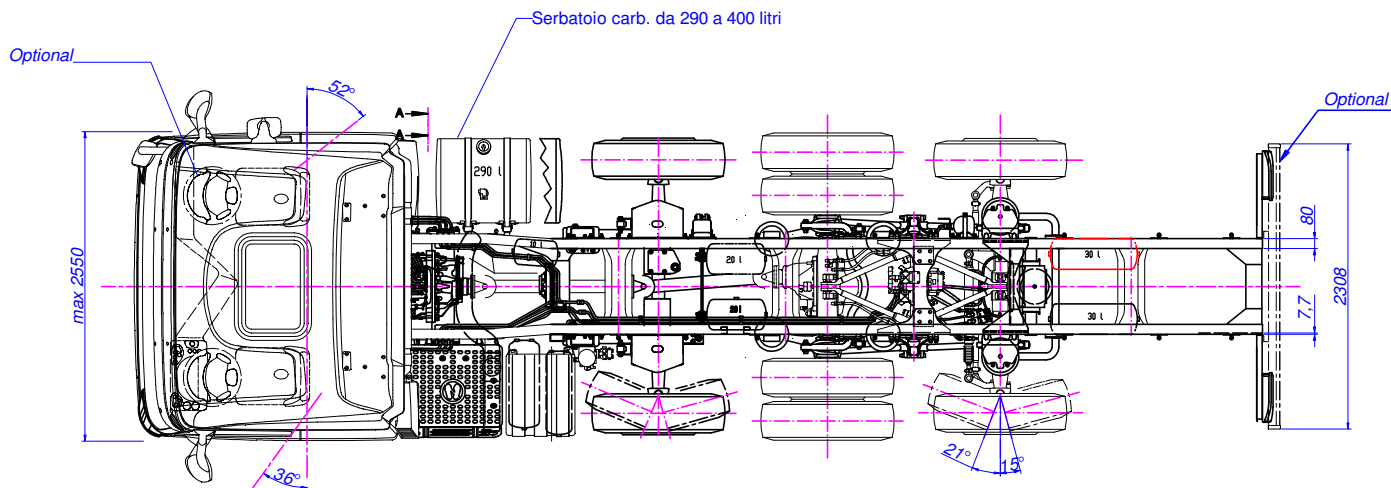
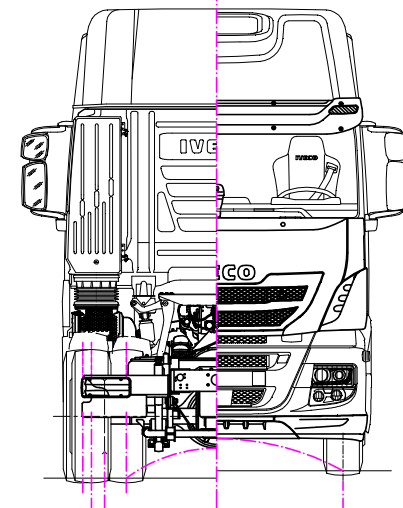
Vista A / View A



| Pos.                                                                                  | Q.tà                      | Designazione, materiale, dimensione, ecc. |                            |                                                                                       |                                                                                                     | Codice           | Modifiche       |
|---------------------------------------------------------------------------------------|---------------------------|-------------------------------------------|----------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------|-----------------|
| Materiale                                                                             | Unificazione              | Trattamento                               | Caratteristiche meccaniche | Massa kg                                                                              | Unità di misura lineari: mm angoli: °sessagesimali                                                  | Codice grezzo    | Formato disegno |
| Disegnato da P. Toppano                                                               | Controllato da P. Martini | Data 19.09.2013                           | Scala                      |                                                                                       | Quote senza indicazione di tolleranza secondo tabella UNI EN 22768/1, con grado di precisione medio | Codice fornitore |                 |
| S.T. System Truck S.p.A.                                                              |                           |                                           |                            | FIGURINO IVECO STRALIS AD/AT 260 YPS EURO 6 CONF. 1+3 - PASSO 6050 MM - TIPO: ST 2Y3C |                                                                                                     |                  |                 |
| S.T. System Truck S.p.A.                                                              |                           |                                           |                            | N° DISEGNO 55.01.03.0042                                                              |                                                                                                     |                  |                 |
| via Paesa, 28 - I 46048 Roverbella (MN) tel. +39 0376 696809 - info@stsystemtruck.com |                           |                                           |                            | Modifica 2 - 12.01.2015 Foglio 1/1                                                    |                                                                                                     |                  |                 |

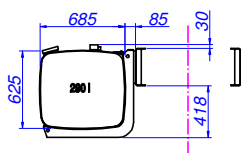


| Varianti/variants | Versioni/versions    | A    | B    |
|-------------------|----------------------|------|------|
| B??               | ??CB????????????P??? | 2835 | 1365 |
| B??               | ??CB????????????Q??? | 2880 | 1320 |
| B??               | ??CB????????????R??? | 2790 | 1410 |



Nota (\*): vedere scheda informativa  
Note (\*): see information document

Vista A / View A



| model                       | 6x2 P | Fdp | engine |
|-----------------------------|-------|-----|--------|
| AS260X42,46,48Y/PS HR/SR DN | C46Y  | C11 |        |
| AS260X51,57Y/PS HR/SR DN    | C56Y  | C13 |        |

| Disegnato da | Controllato da | Data       | Scala |
|--------------|----------------|------------|-------|
| P. M.        | .....          | 16.05.2018 | ..... |



S.T. System Truck S.p.A.  
via Paesa, 28 - I 46048 Roverbella (MN)  
tel. +39 0376 696809 - info@stsystemtruck.com

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Quote senza indicazione di tolleranza secondo  
tabella UNI EN 22768/1, con grado  
di precisione

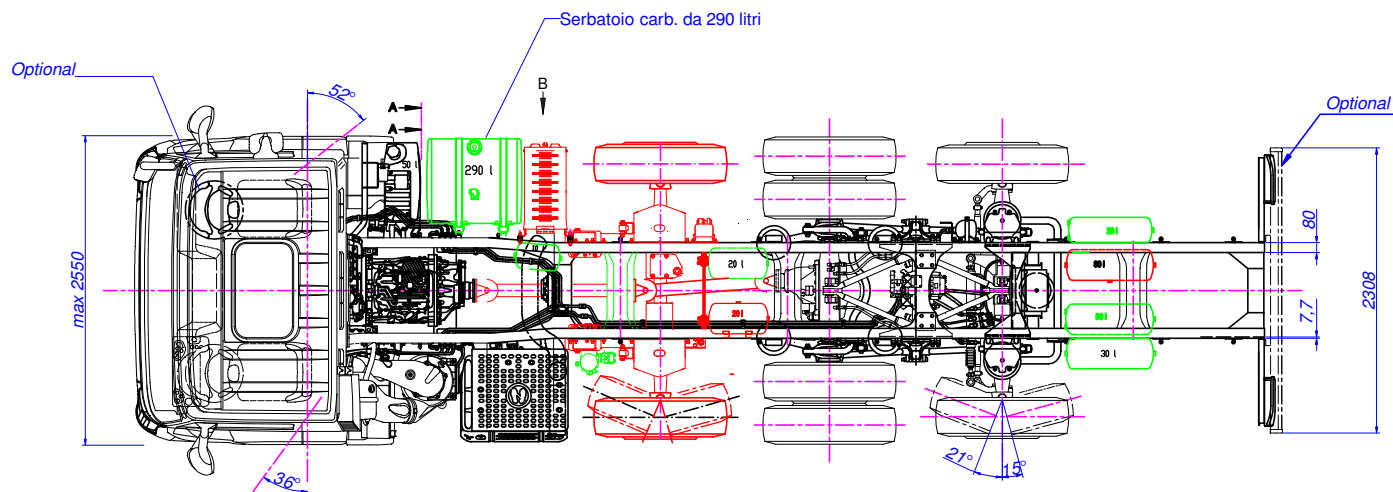
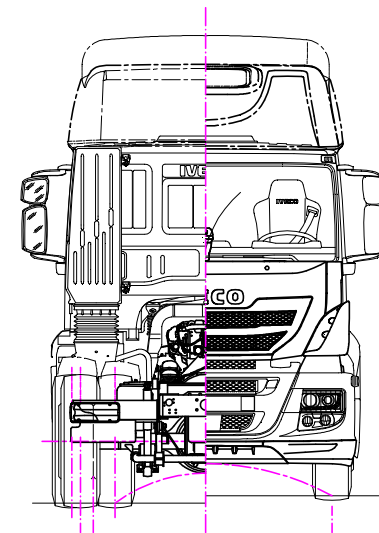
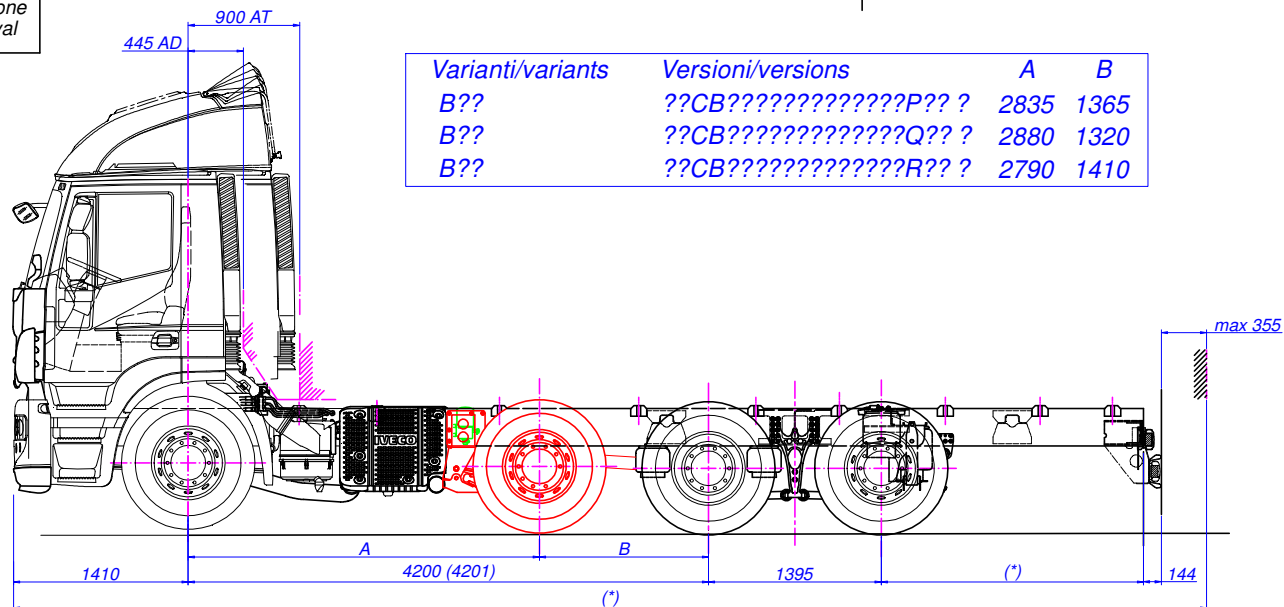
TITOLO FIGURINO IVECO STRALIS X-WAY AS 260 YPS EURO 6  
CONF. 1+3 - PASSO 4200 MM

N° DISEGNO  
**55.01.03.0113**

Modifica  
.....  
Foglio  
--

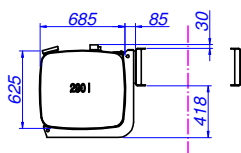
**E24\*13R11/14\*0056\*008**

Disegno per omologazione  
Drawing for type-approval

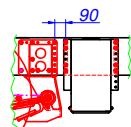


Nota (\*): vedere scheda informativa  
Note (\*): see information document

Vista A / View A



Vista B / View B



|                                   |       |     |        |
|-----------------------------------|-------|-----|--------|
| model                             | 6x2 P | Fdp | engine |
| AD/AT260X31,33,36,40Y/PS HR/SR DN | D26Y  | C9  |        |
| AD/AT260X42,46,48Y/PS HR/SR DN    | D36Y  | C11 |        |

|              |                |            |       |
|--------------|----------------|------------|-------|
| Disegnato da | Controllato da | Data       | Scala |
| P. M.        | .....          | 16.05.2018 | ..... |

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di precisione

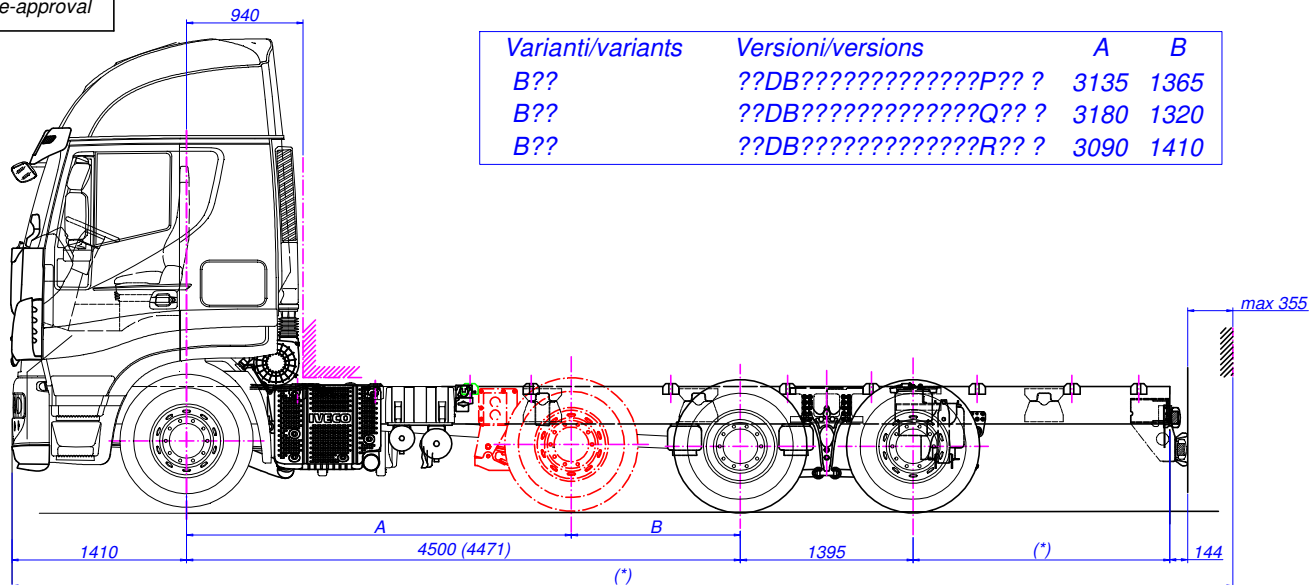
TITOLO FIGURINO IVECO STRALIS X-WAY AD AT 260 YPS EURO 6  
CONF. 1+3 - PASSO 4200 MM

N° DISEGNO  
55.01.03.0114

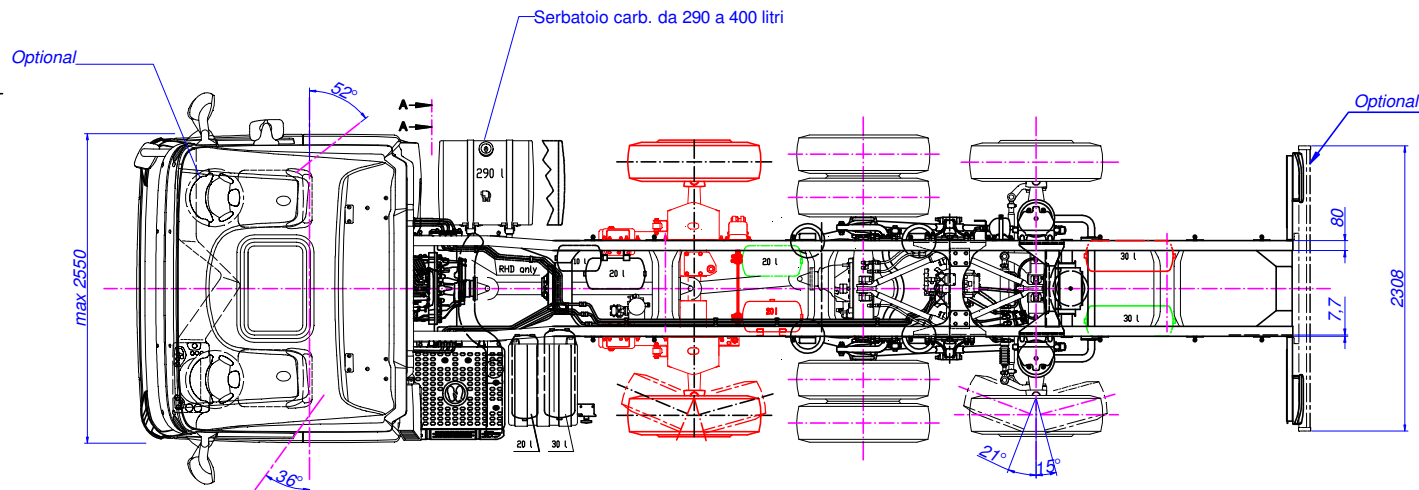
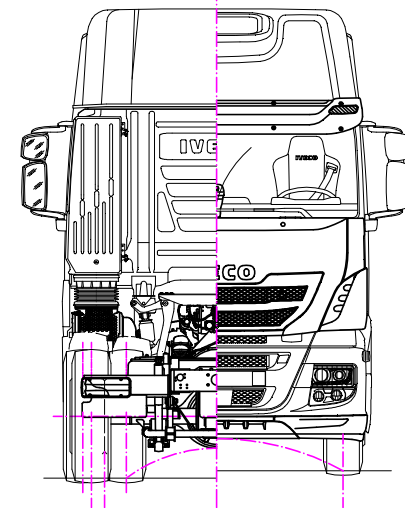
Modifica  
Foglio

E24\*13R11/14\*0056\*008

Disegno per omologazione  
Drawing for type-approval

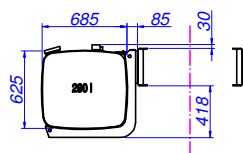


| Varianti/variants | Versioni/versions    | A    | B    |
|-------------------|----------------------|------|------|
| B??               | ??DB????????????P??? | 3135 | 1365 |
| B??               | ??DB????????????Q??? | 3180 | 1320 |
| B??               | ??DB????????????R??? | 3090 | 1410 |



Nota (\*): vedere scheda informativa  
Note (\*): see information document

Vista A / View A



| model 6x2 P                 | Fdp  | engine |
|-----------------------------|------|--------|
| AS260X42,46,48Y/PS HR/SR DN | C46Y | C11    |
| AS260X51,57Y/PS HR/SR DN    | C56Y | C13    |

| Disegnato da | Controllato da | Data       |
|--------------|----------------|------------|
| P. M.        | .....          | 16.05.2018 |



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|-------|
| ..... |

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| Quote senza indicazione di tolleranza secondo<br>tabella UNI EN 22768/1, con grado<br>di precisione |
|-----------------------------------------------------------------------------------------------------|
|-----------------------------------------------------------------------------------------------------|

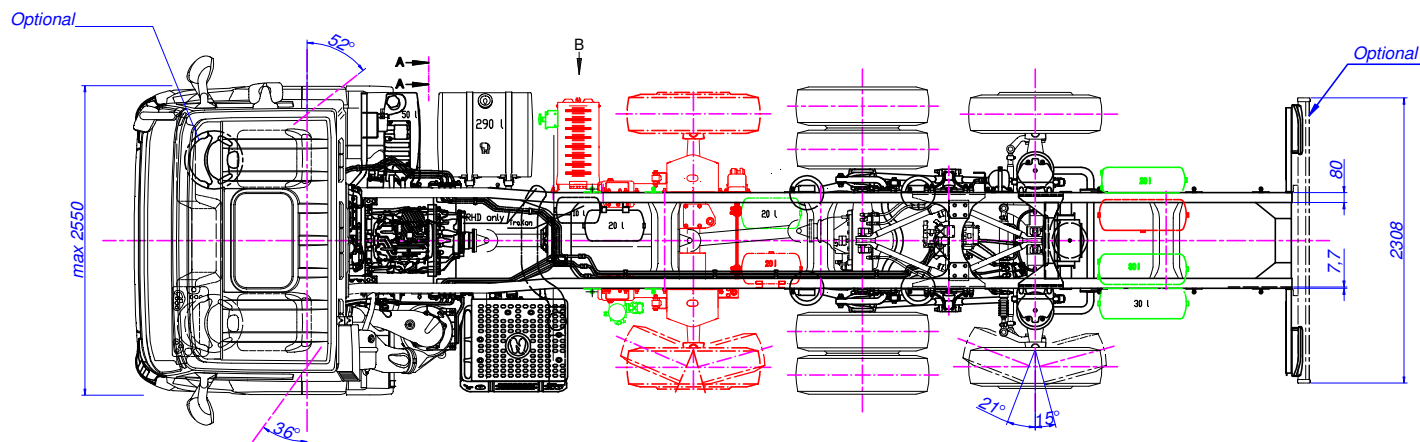
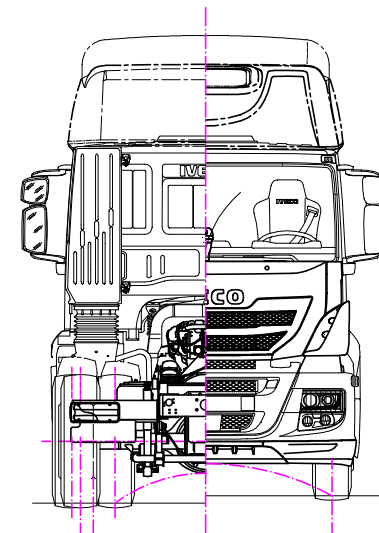
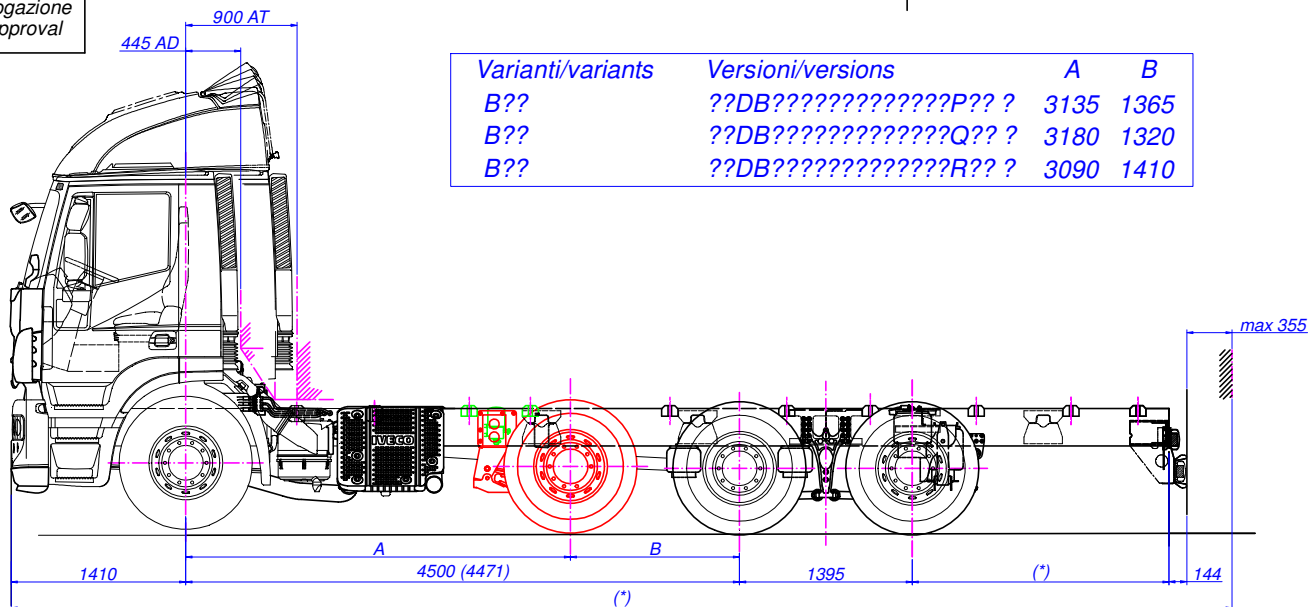
TITOLO FIGURINO IVECO STRALIS X-WAY AS 260 YPS EURO 6  
CONF. 1+3 - PASSO 4500 MM

N° DISEGNO 55.01.03.0115

| Modifiche | Formato disegno |
|-----------|-----------------|
| .....     | .....           |
| Modifica  | Foglio          |
| .....     | --              |

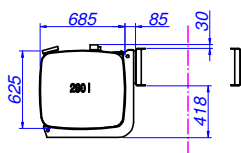
E24\*13R11/14\*0056\*008

Disegno per omologazione  
Drawing for type-approval

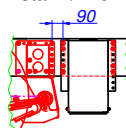


Nota (\*): vedere scheda informativa  
Note (\*): see information document

Vista A / View A



Vista B / View B



|                                   |       |     |        |
|-----------------------------------|-------|-----|--------|
| model                             | 6x2 P | Fdp | engine |
| AD/AT260X31,33,36,40Y/PS HR/SR DN | D26Y  | C9  |        |
| AD/AT260X42,46,48Y/PS HR/SR DN    | D36Y  | C11 |        |

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Controllato da

Data  
16.05.2018

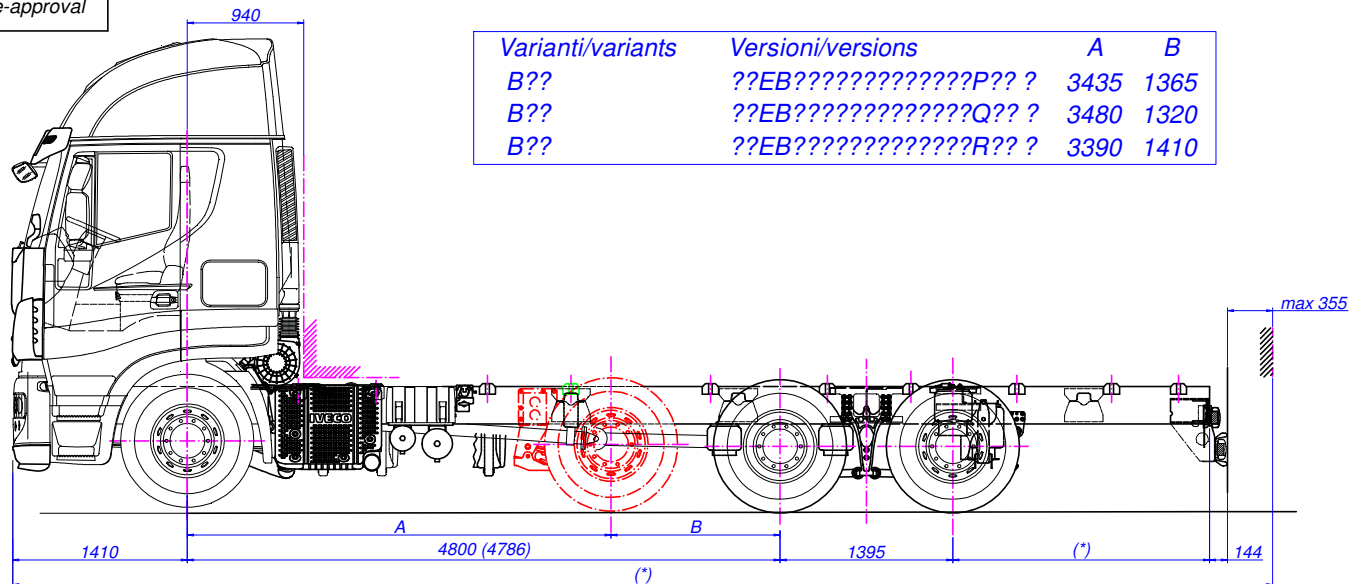
Scala

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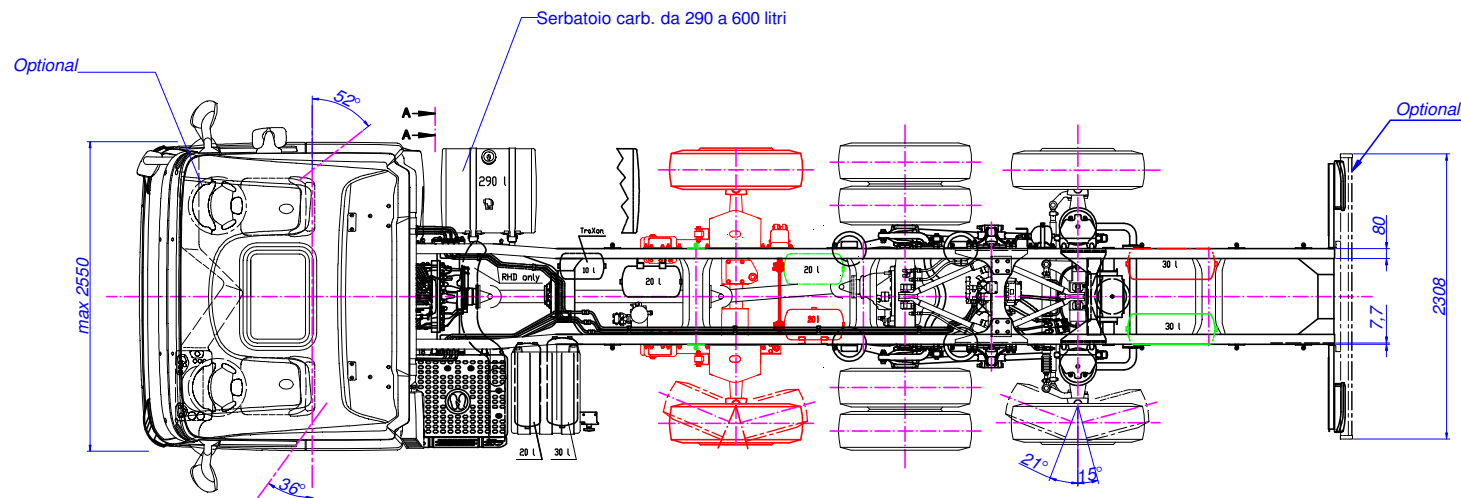
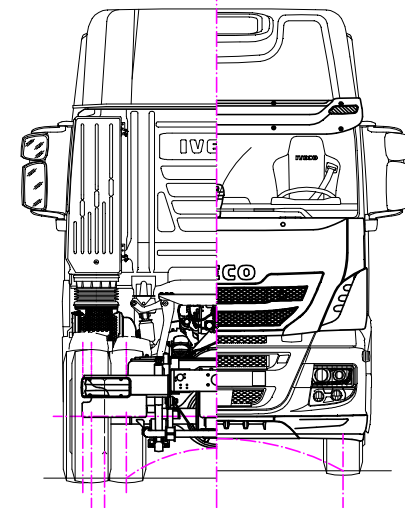
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|                                                                                               |                 |
|-----------------------------------------------------------------------------------------------|-----------------|
| Quote senza indicazione di tolleranza secondo tabella UNI EN 22768/1, con grado di precisione | Modifiche       |
| TITOLO<br>FIGURINO IVECO STRALIS X-WAY AD AT 260 YPS EURO 6<br>CONF. 1+3 - PASSO 4500 MM      | Formato disegno |
| N° DISEGNO<br>55.01.03.0116                                                                   | Modifica        |
| E24*13R11/14*0056*008                                                                         | Foglio          |

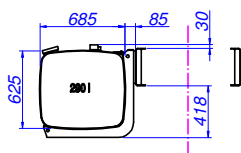


| Varianti/variants | Versioni/versions     | A    | B    |
|-------------------|-----------------------|------|------|
| B??               | ??EB????????????P?? ? | 3435 | 1365 |
| B??               | ??EB????????????Q?? ? | 3480 | 1320 |
| B??               | ??EB????????????R?? ? | 3390 | 1410 |



Nota (\*): vedere scheda informativa  
Note (\*): see information document

Vista A / View A



| model 6x2 P                 | Fdp  | engine |
|-----------------------------|------|--------|
| AS260X42,46,48Y/PS HR/SR DN | C46Y | C11    |
| AS260X51,57Y/PS HR/SR DN    | C56Y | C13    |

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TITOLO

FIGURINO IVECO STRALIS X-WAY AS 260 YPS EURO 6

CONF. 1+3 - PASSO 4800 MM

N° DISEGNO

55.01.03.0117

Modifica

Foglio

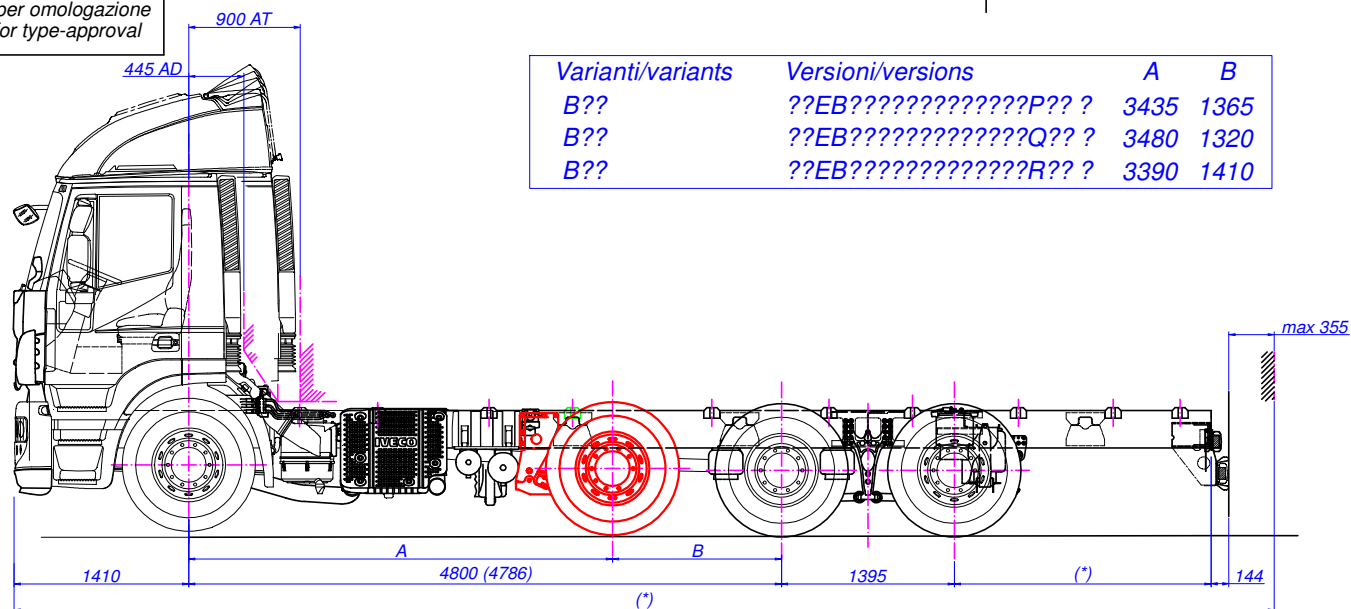
Modifiche

Formato disegno

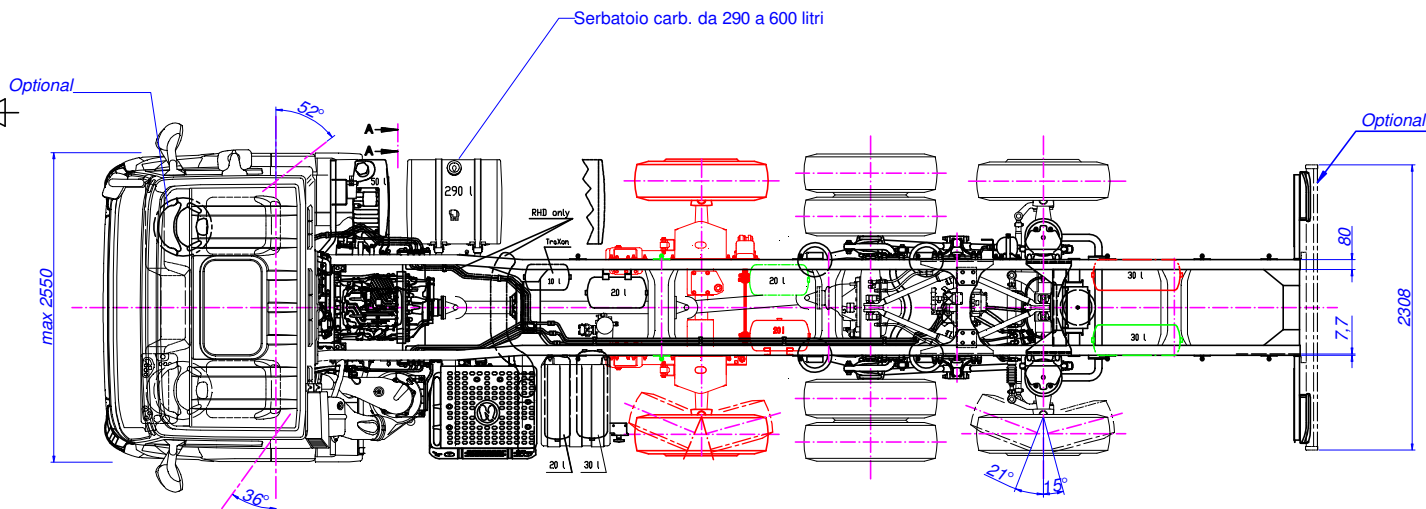
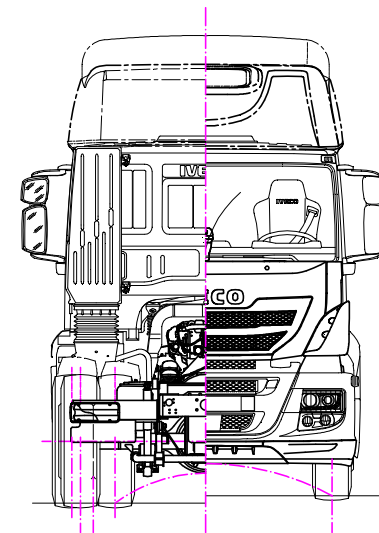
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E24\*13R11/14\*0056\*008

Disegno per omologazione  
Drawing for type-approval

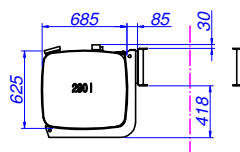


| Varianti/variants | Versioni/versions     | A    | B    |
|-------------------|-----------------------|------|------|
| B??               | ??EB????????????P?? ? | 3435 | 1365 |
| B??               | ??EB????????????Q?? ? | 3480 | 1320 |
| B??               | ??EB????????????R?? ? | 3390 | 1410 |



Nota (\*): vedere scheda informativa  
Note (\*): see information document

Vista A / View A



|                                   |       |     |        |
|-----------------------------------|-------|-----|--------|
| model                             | 6x2 P | Fdp | engine |
| AD/AT260X31,33,36,40Y/PS HR/SR DN | D26Y  | C9  |        |
| AD/AT260X42,46,48Y/PS HR/SR DN    | D36Y  | C11 |        |

|              |                |            |       |
|--------------|----------------|------------|-------|
| Disegnato da | Controllato da | Data       | Scala |
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TITOLO FIGURINO IVECO STRALIS X-WAY AD AT 260 YPS EURO 6  
CONF. 1+3 - PASSO 4800 MM

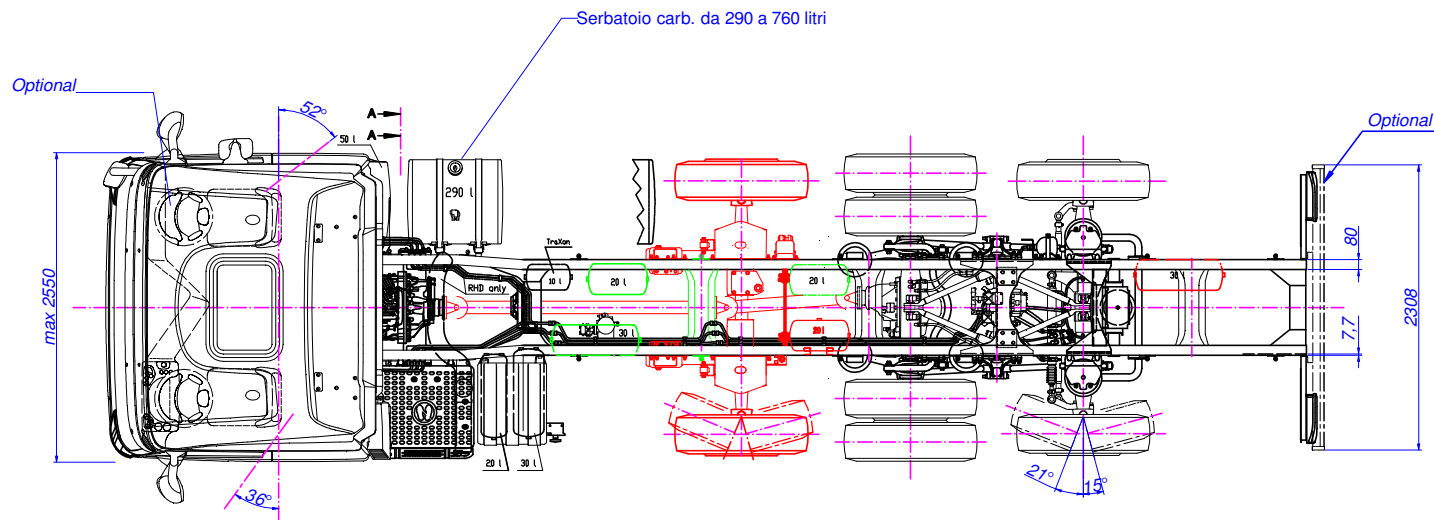
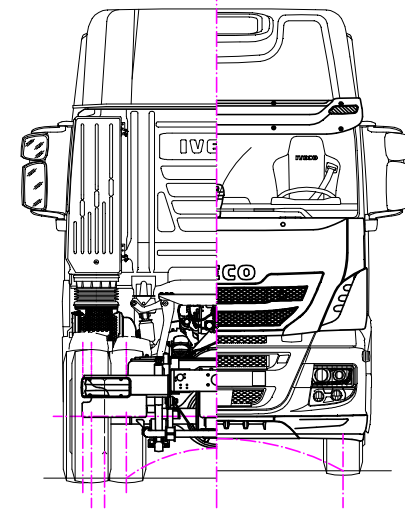
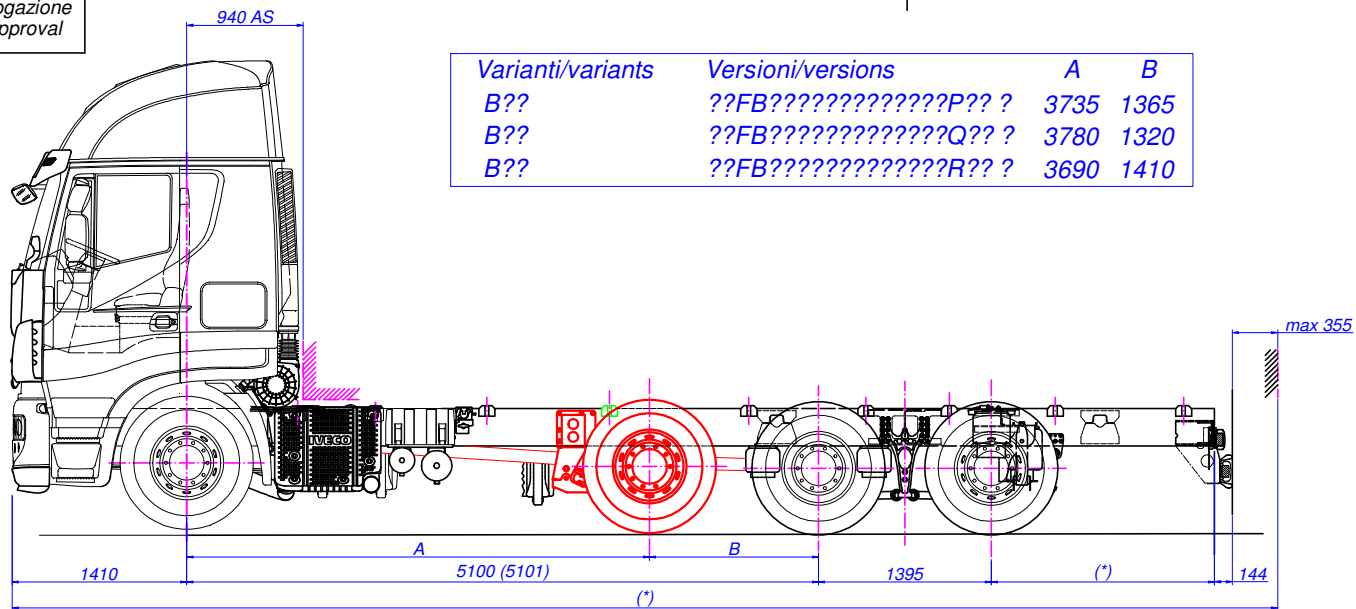
N° DISEGNO 55.01.03.0118

Modifica Foglio

E24\*13R11/14\*0056\*008

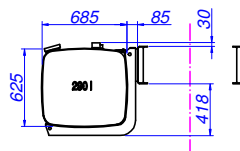
Disegno per omologazione  
Drawing for type-approval

| Varianti/variants | Versioni/versions     | A    | B    |
|-------------------|-----------------------|------|------|
| B??               | ??FB????????????P?? ? | 3735 | 1365 |
| B??               | ??FB????????????Q?? ? | 3780 | 1320 |
| B??               | ??FB????????????R?? ? | 3690 | 1410 |



Nota (\*): vedere scheda informativa  
Note (\*): see information document

*Vista A / View A*



| model 6x2 P                 | Fdp  | engine |
|-----------------------------|------|--------|
| AS260X42,46,48Y/PS HR/SR DN | C46Y | C11    |
| AS260X51,57Y/PS HR/SR DN    | C56Y | C13    |

|              |                |            |
|--------------|----------------|------------|
| Disegnato da | Controllato da | Data       |
| P. M.        | .....          | 16.05.2018 |



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| <i>Scala</i> |
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**TITOLO** *FIGURINO IVECO STRALIS X-WAY AS 260 YPS EURO 6  
CONF. 1+3 - PASSO 5100 MM*

**N° DISEGNO**

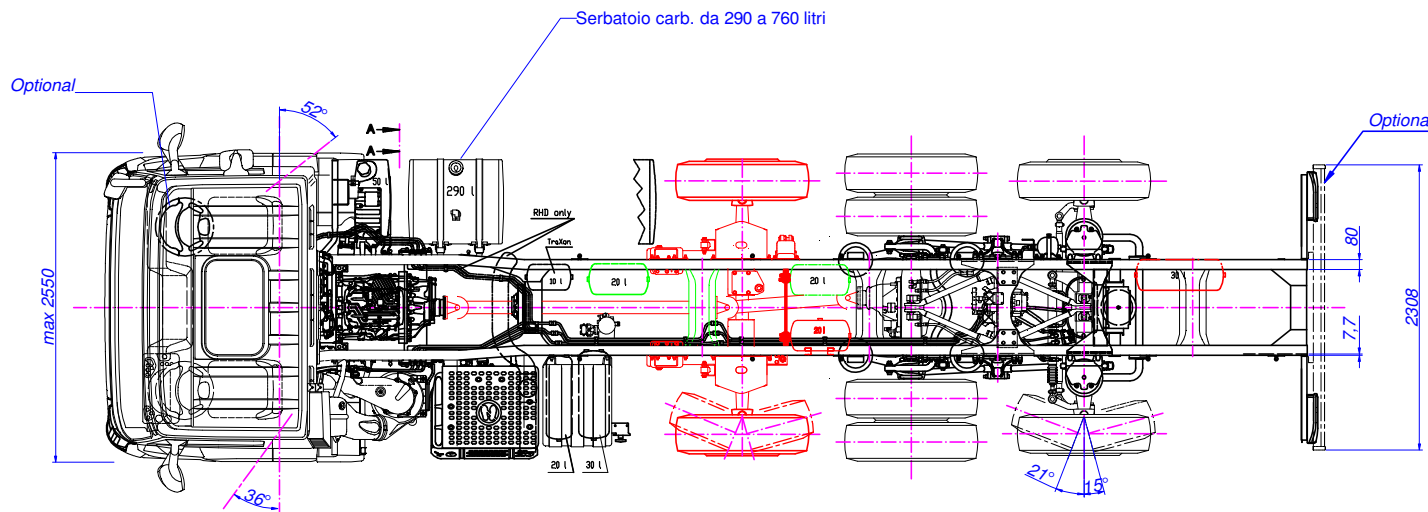
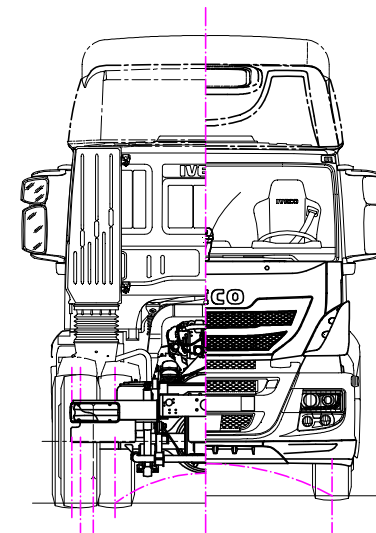
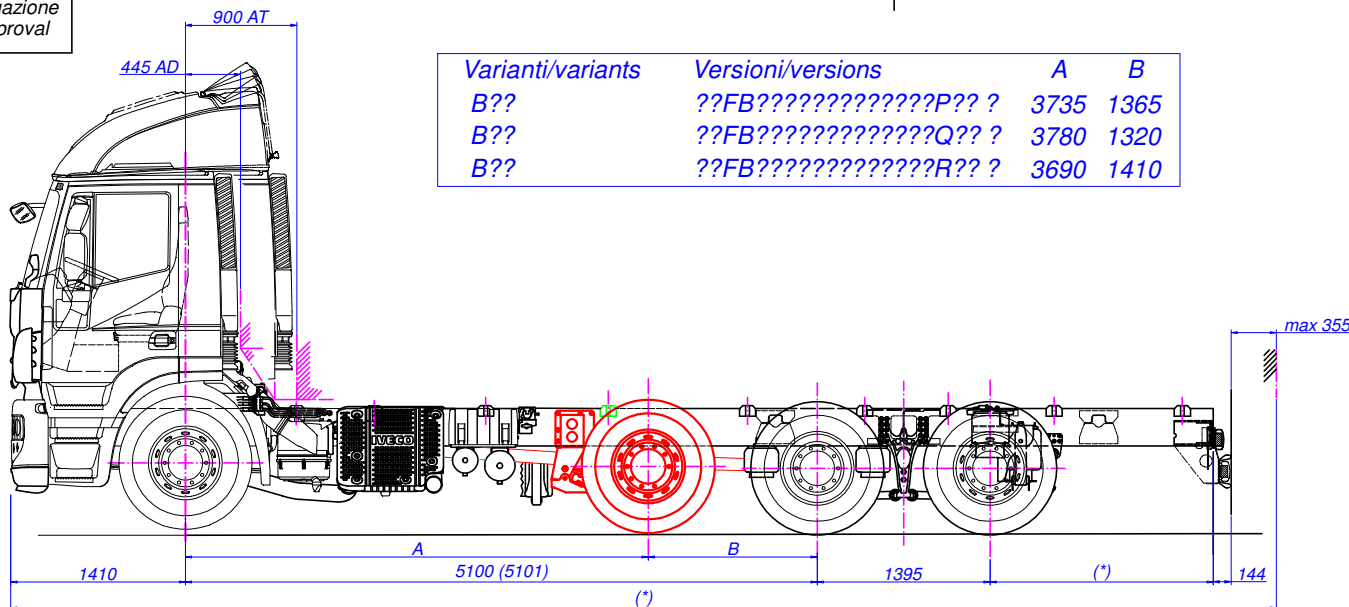
<sup>GNO</sup>  
55.01.03.0119

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|-----------------|
| <i>Modifica</i> |
|-----------------|

|  |               |
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|  | <i>Foglio</i> |
|--|---------------|

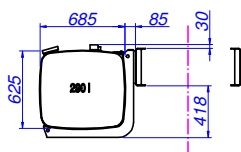
**E24\*13R11/14\*0056\*008**

Disegno per omologazione  
Drawing for type-approval



Nota (\*): vedere scheda informativa  
Note (\*): see information document

Vista A / View A



| Varianti/variants | Versioni/versions     | A    | B    |
|-------------------|-----------------------|------|------|
| B??               | ??FB????????????P?? ? | 3735 | 1365 |
| B??               | ??FB????????????Q?? ? | 3780 | 1320 |
| B??               | ??FB????????????R?? ? | 3690 | 1410 |

|                                   |       |     |        |
|-----------------------------------|-------|-----|--------|
| model                             | 6x2 P | Fdp | engine |
| AD/AT260X31,33,36,40Y/PS HR/SR DN | D26Y  | C9  |        |
| AD/AT260X42,46,48Y/PS HR/SR DN    | D36Y  | C11 |        |

|              |                |            |       |
|--------------|----------------|------------|-------|
| Disegnato da | Controllato da | Data       | Scala |
| P. M.        | .....          | 16.05.2018 | ..... |



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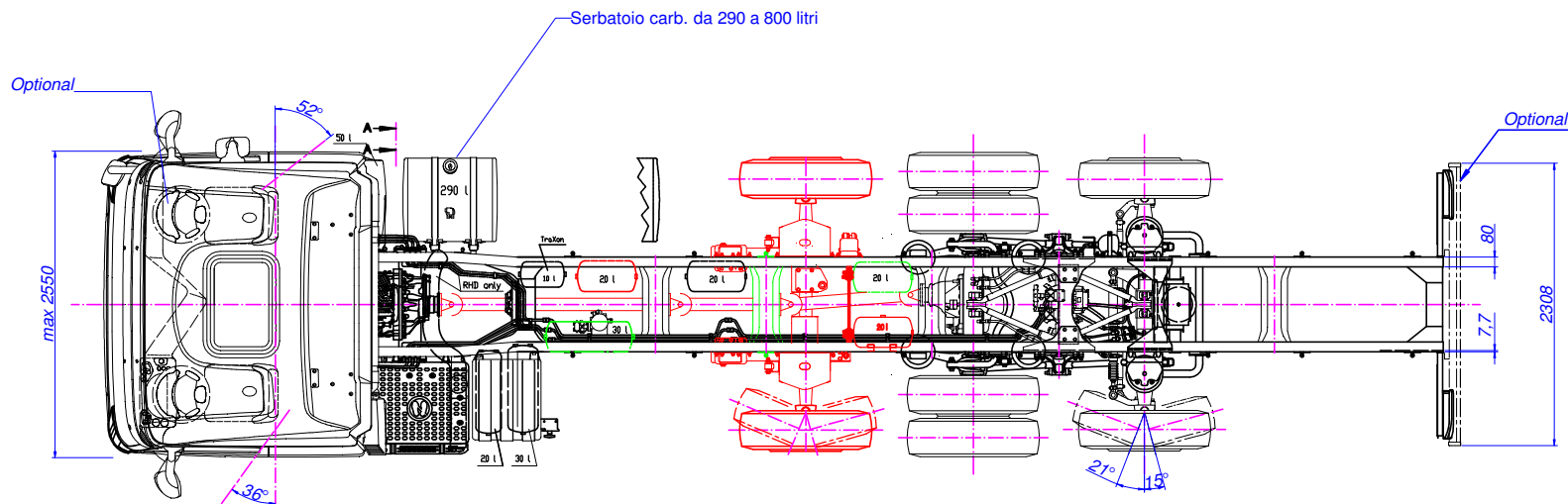
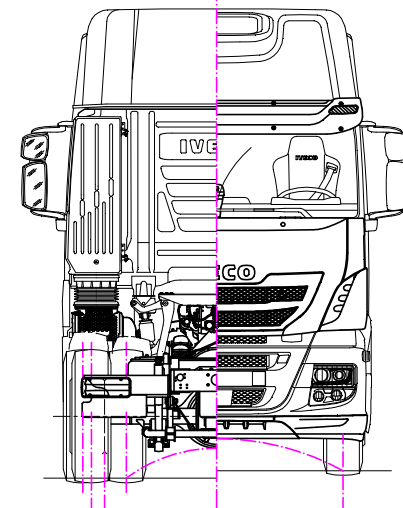
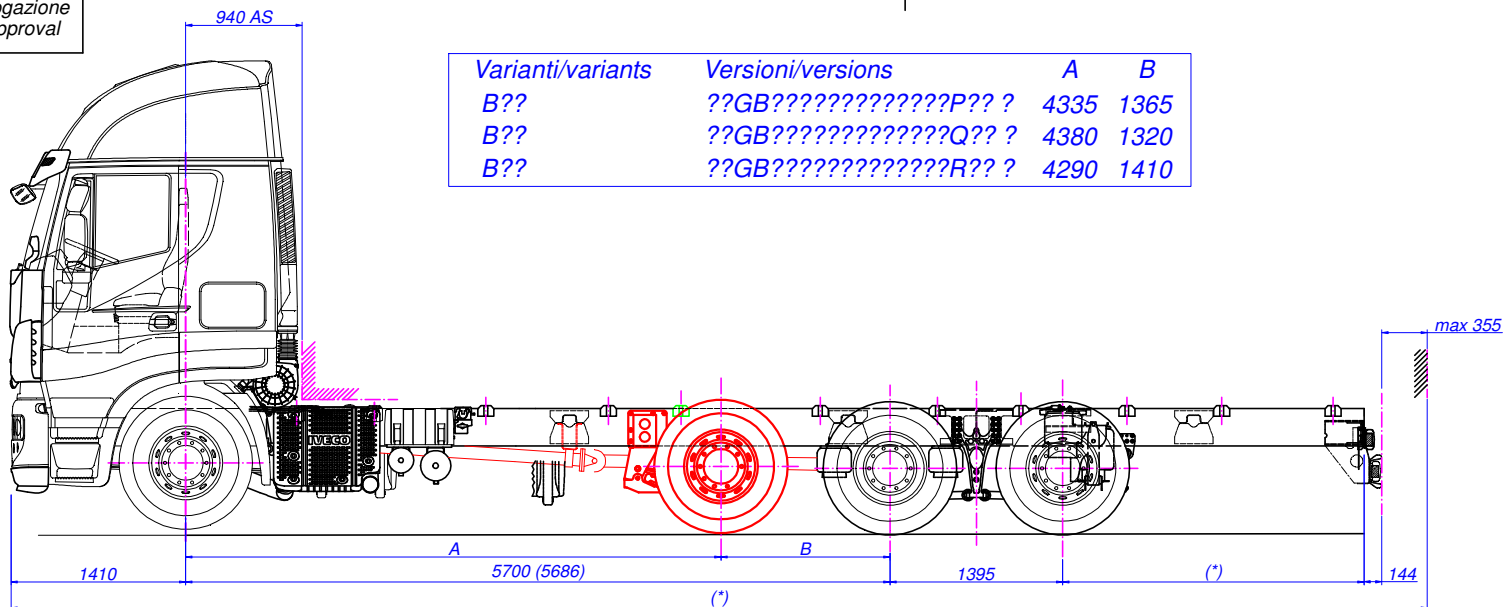
TITOLO FIGURINO IVECO STRALIS X-WAY AD AT 260 YPS EURO 6  
CONF. 1+3 - PASSO 5100 MM

N° DISEGNO 55.01.03.0120

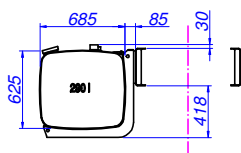
Modifica Foglio

E24\*13R11/14\*0056\*008

Disegno per omologazione  
Drawing for type-approval



Vista A / View A



Nota (\*): vedere scheda informativa  
Note (\*): see information document

| model 6x2 P                 | Fdp  | engine |
|-----------------------------|------|--------|
| AS260X42,46,48Y/PS HR/SR DN | C46Y | C11    |
| AS260X51,57Y/PS HR/SR DN    | C56Y | C13    |

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P. M.

Controllato da  
Data  
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TITOLO  
FIGURINO IVECO STRALIS X-WAY AS 260 YPS EURO 6  
CONF. 1+3 - PASSO 5700 MM

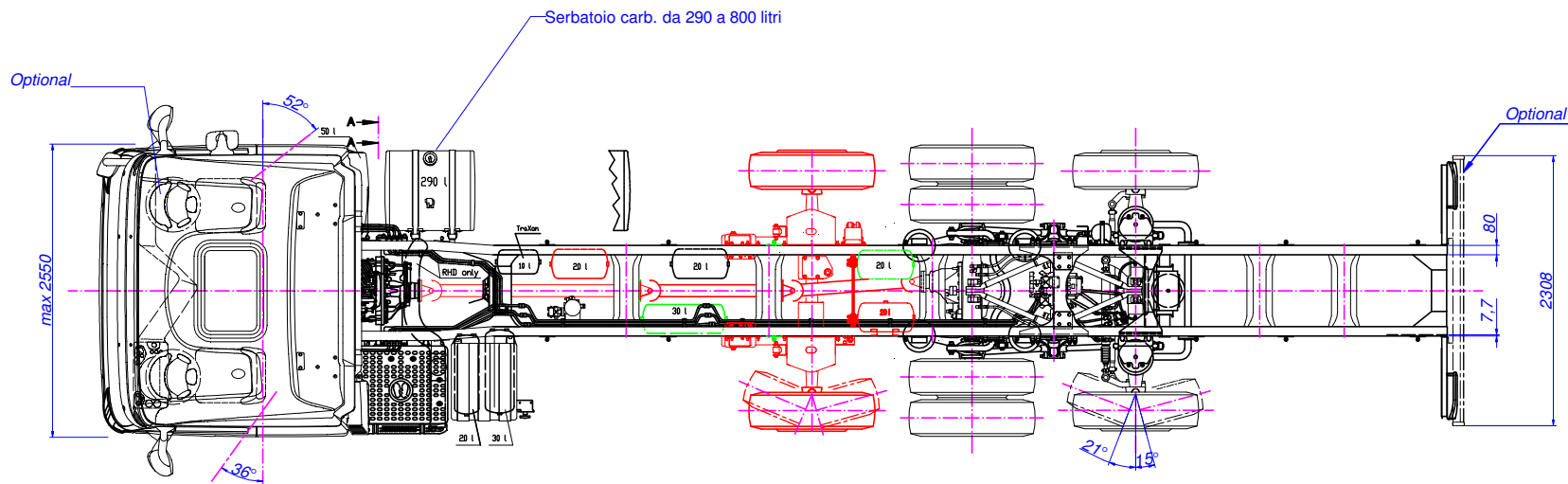
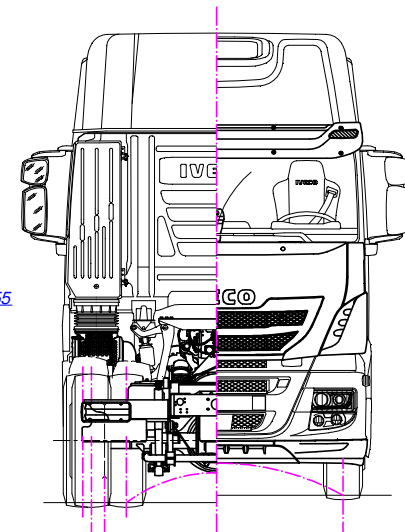
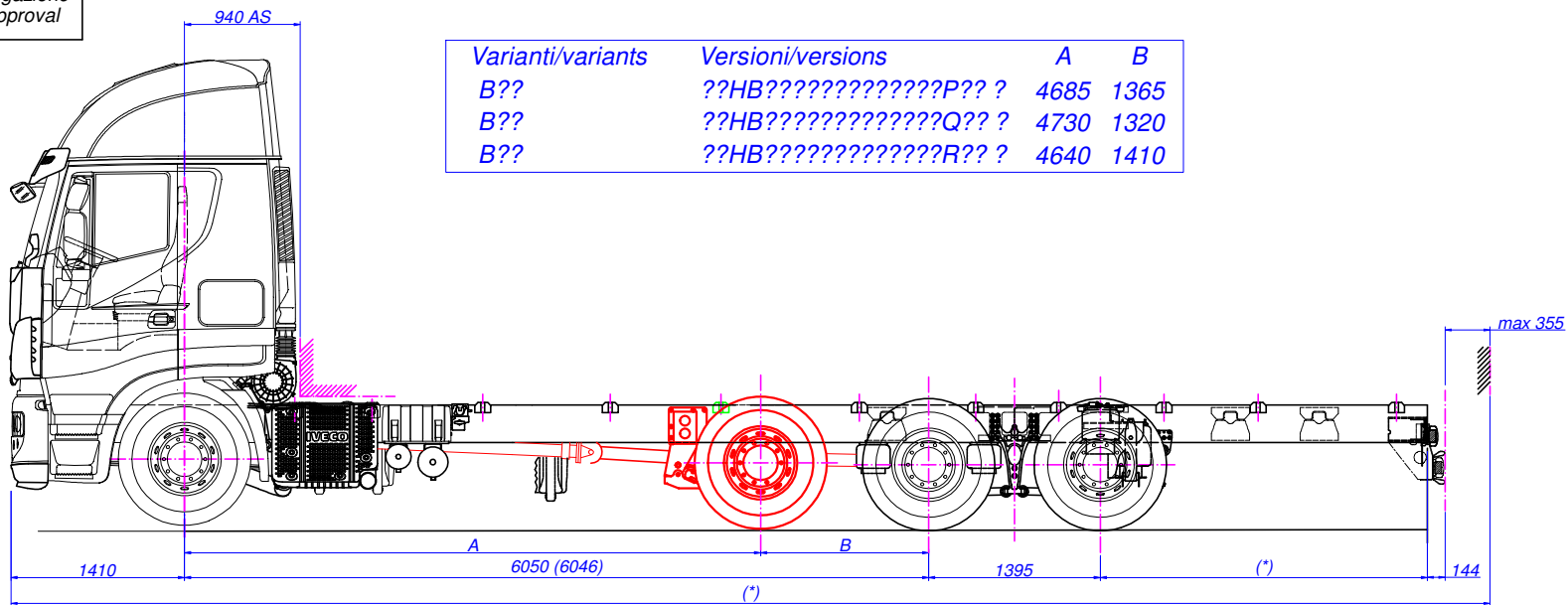
N° DISEGNO  
55.01.03.0121

Modifica  
Foglio

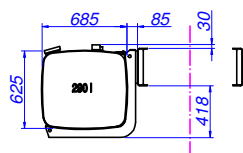
E24\*13R11/14\*0056\*008



| Varianti/variants | Versioni/versions     | A    | B    |
|-------------------|-----------------------|------|------|
| B??               | ??HB????????????P?? ? | 4685 | 1365 |
| B??               | ??HB????????????Q?? ? | 4730 | 1320 |
| B??               | ??HB????????????R?? ? | 4640 | 1410 |



Nota (\*): vedere scheda informativa  
Note (\*): see information document



| model 6x2 P                 | Fdp  | engine |
|-----------------------------|------|--------|
| AS260X42,46,48Y/PS HR/SR DN | C46Y | C11    |
| AS260X51,57Y/PS HR/SR DN    | C56Y | C13    |

|              |                |            |
|--------------|----------------|------------|
| Disegnato da | Controllato da | Data       |
| P. M.        | .....          | 16.05.2018 |



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|      |                    |
|------|--------------------|
| Sp 4 | Dis<br>Sys<br>ripr |
|      | Pro                |

S.p.A. Pro

Quote senza indicazione di tolleranza secondo  
tabella UNI EN 22768/1, con grado  
di precisione

|       |        |                                                                             |
|-------|--------|-----------------------------------------------------------------------------|
| T. la | TITOLO | FIGURINO IVECO STRALIS X-WAY AS 260 YPS EURO 6<br>CONF. 1+3 - PASSO 6050 MM |
|-------|--------|-----------------------------------------------------------------------------|

N° DISEGNO

<sup>GNO</sup>  
55.01.03.0123

|  |                 |
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|  | <i>Modifica</i> |
|--|-----------------|

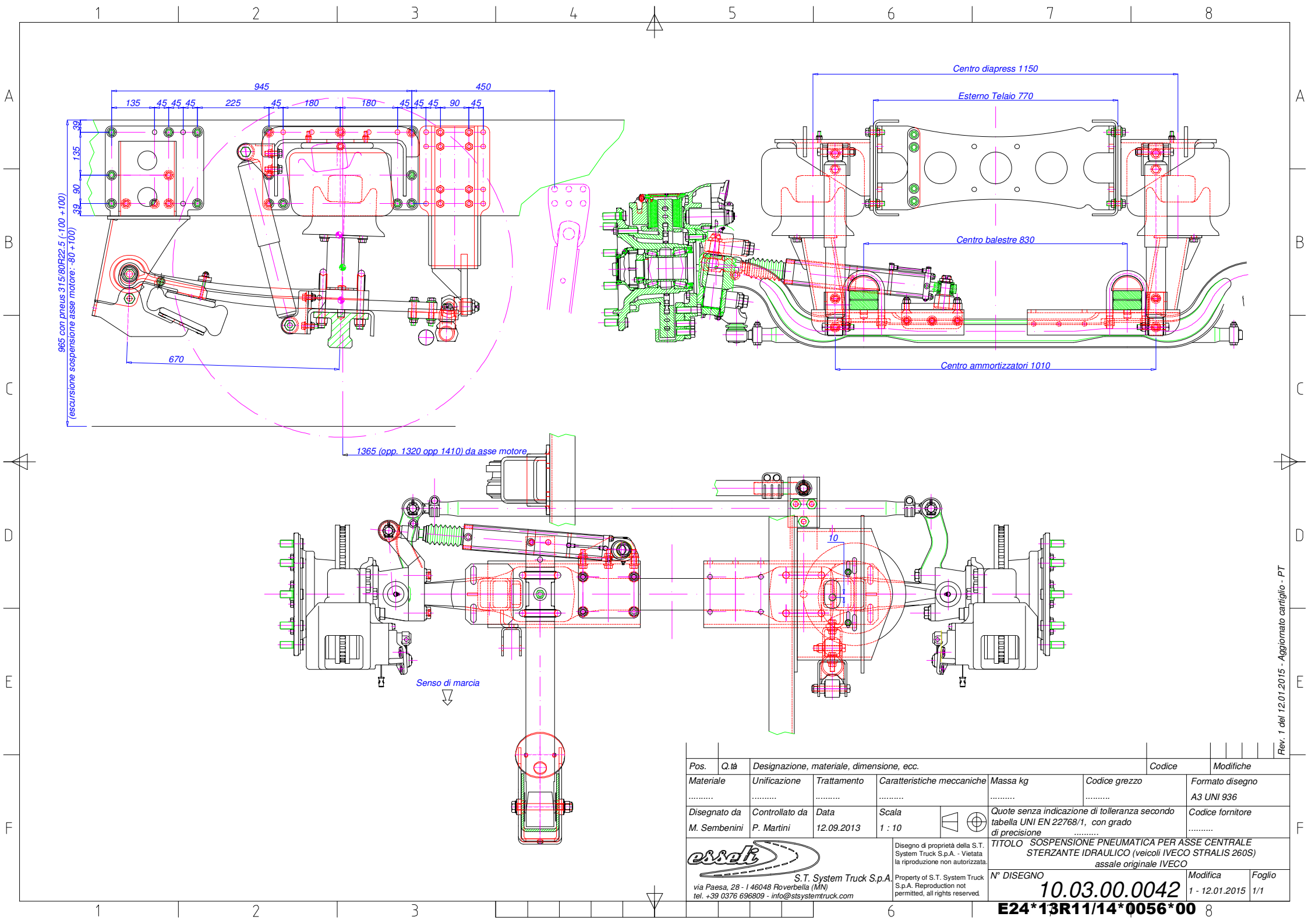
|  |               |
|--|---------------|
|  | <i>Foglio</i> |
|--|---------------|

Modifiche

|  |                        |
|--|------------------------|
|  | <i>Formato disegno</i> |
|--|------------------------|

**E24\*13R11/14\*0056\*008**

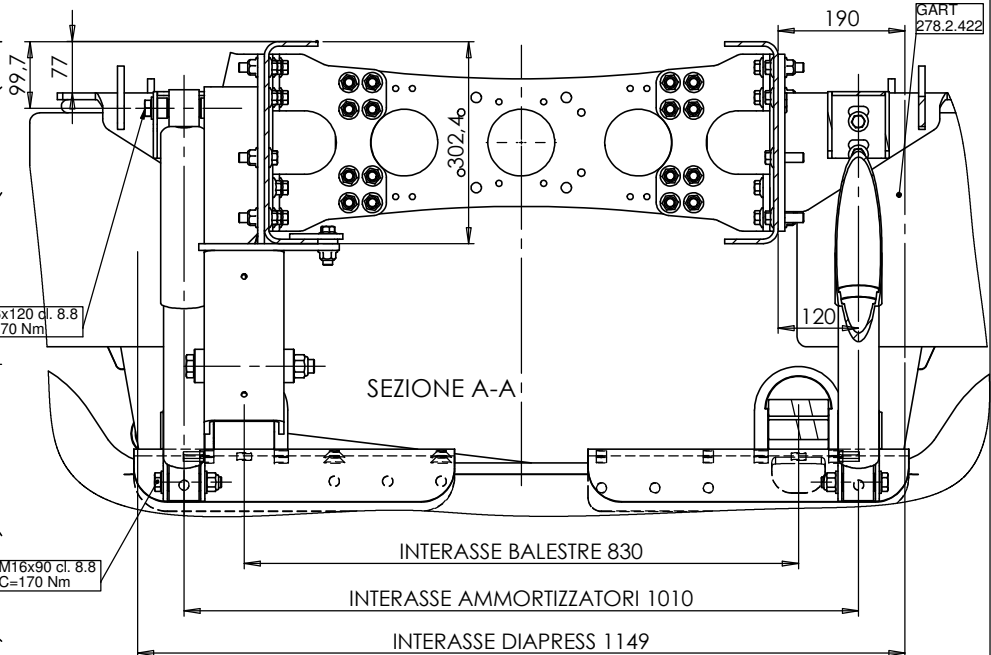
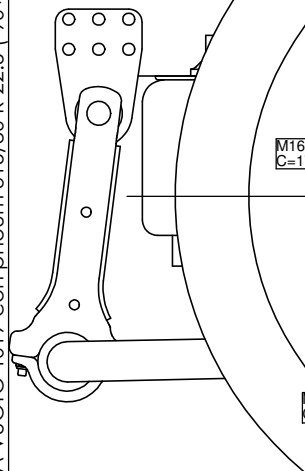
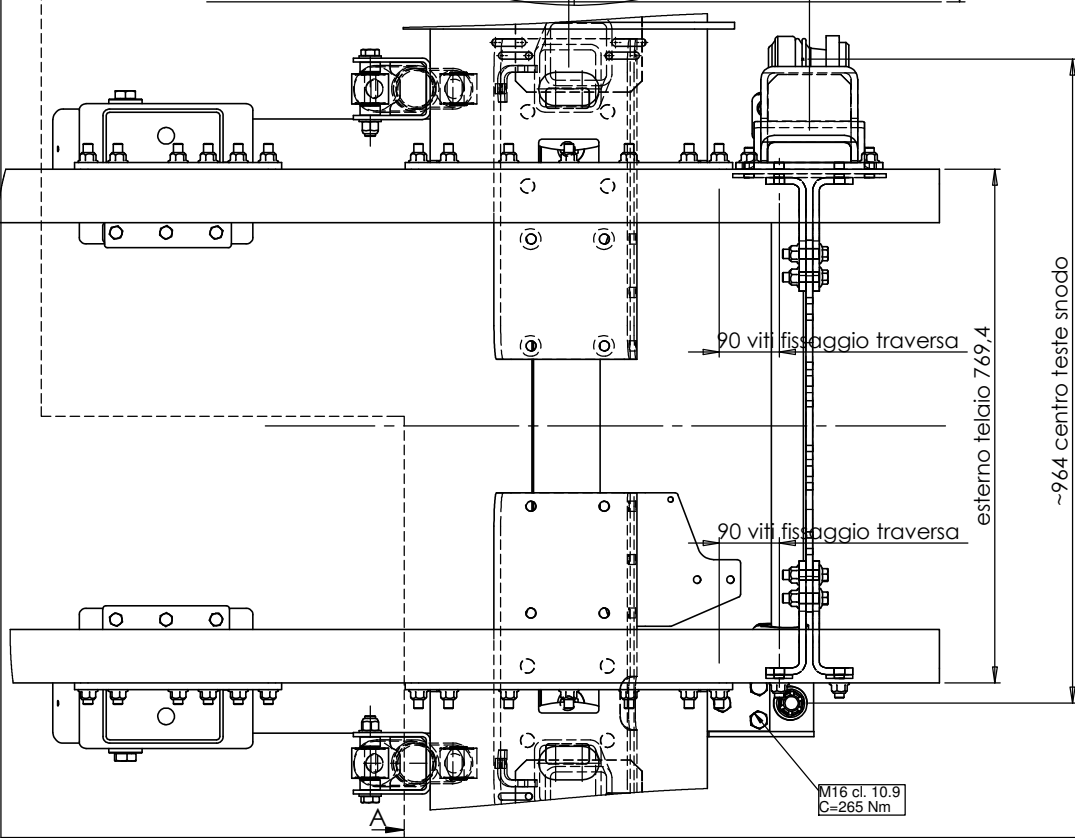
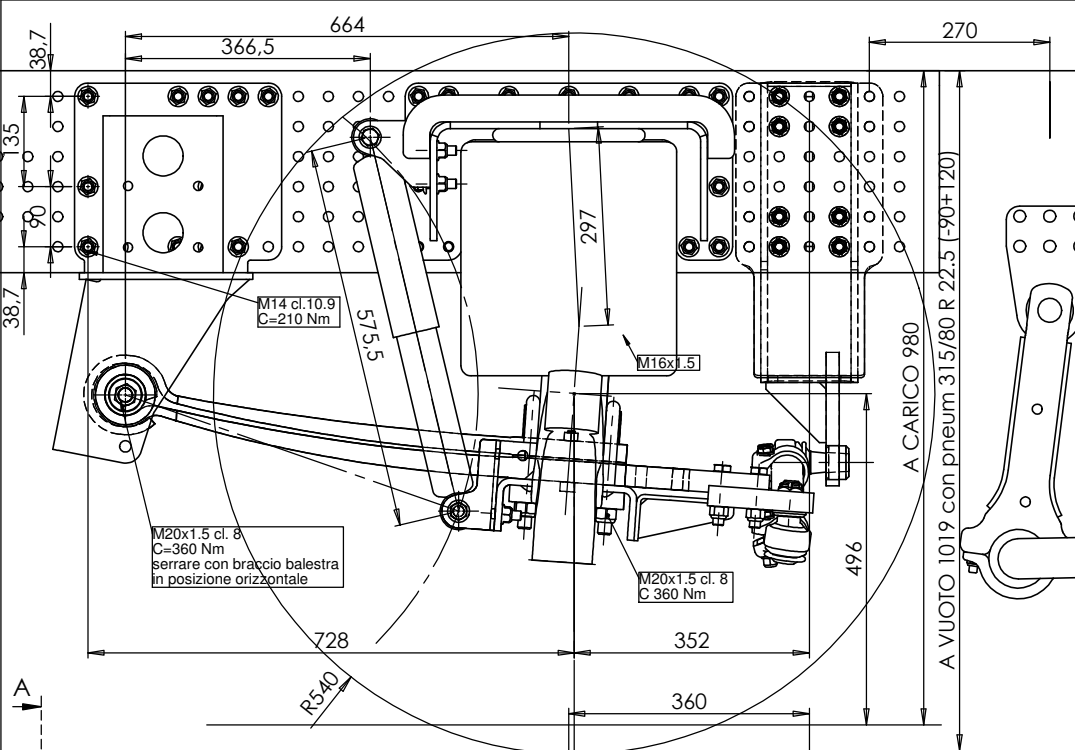




| Pos.                                                                                                                 | Q.tà           | Designazione, materiale, dimensione, ecc. |                            |                                                                                                |                                                                                               |                 | Codice                                                                                                                  | Modifiche |
|----------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------|----------------------------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------|-----------|
| Materiale                                                                                                            | Unificazione   | Trattamento                               | Caratteristiche meccaniche | Massa kg                                                                                       | Codice grezzo                                                                                 | Formato disegno | Codice fornitore                                                                                                        |           |
| .....                                                                                                                | .....          | .....                                     | .....                      | .....                                                                                          | .....                                                                                         | A3 UNI 936      |                                                                                                                         |           |
| Disegnato da                                                                                                         | Controllato da | Data                                      | Scala                      |                                                                                                | Quote senza indicazione di tolleranza secondo tabella UNI EN 22768/1, con grado di precisione |                 |                                                                                                                         | Modifica  |
| M. Sembenini                                                                                                         | P. Martini     | 12.09.2013                                | 1 : 10                     |                                                                                                |                                                                                               |                 |                                                                                                                         | Foglio    |
|                                                                                                                      |                |                                           |                            | Disegno di proprietà della S.T. System Truck S.p.A. - Vietata la riproduzione non autorizzata. |                                                                                               |                 | TITOLO SOSPENSIONE PNEUMATICA PER ASSE CENTRALE STERZANTE IDRAULICO (veicoli IVECO STRALIS 260S) assale originale IVECO |           |
| S.T. System Truck S.p.A.<br>via Paesa, 28 - I 46048 Roverbella (MN)<br>tel. +39 0376 696809 - info@stsystemtruck.com |                |                                           |                            | N° DISEGNO<br>10.03.00.0042                                                                    |                                                                                               |                 | 1 - 12.01.2015                                                                                                          | 1/1       |

E24\*13R11/14\*0056\*00

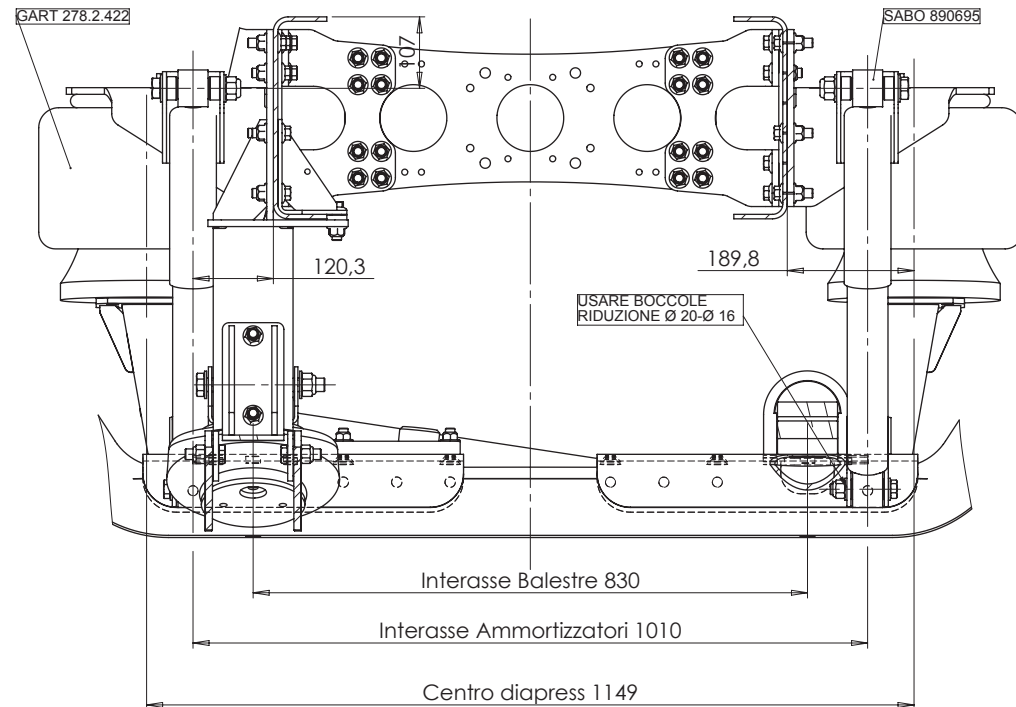
Rev. 1 del 12.01.2015 - Aggiornato cartiglio - PT



## INTERASSE STD 1365 DA ASSE MOTORE

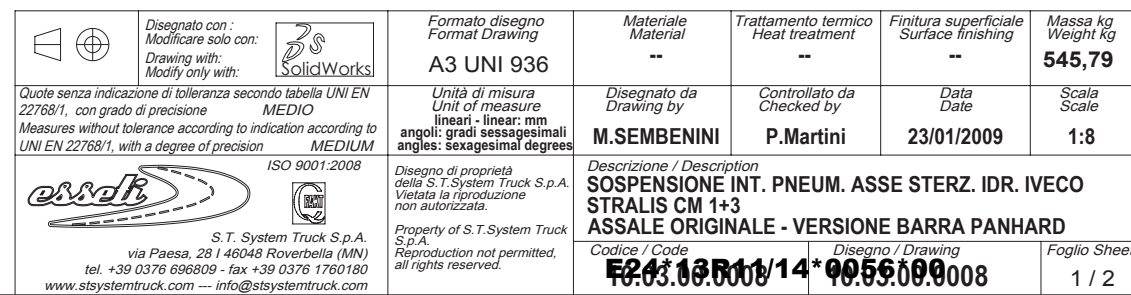
N.B. VERIFICARE SUL VEICOLO EVENTUALI  
INTERFERENZE CON L'ALBERO DI  
TRASMISSIONE SE NECESSARIO MODIFICARE  
L'ALBERO DI TRASMISSIONE.

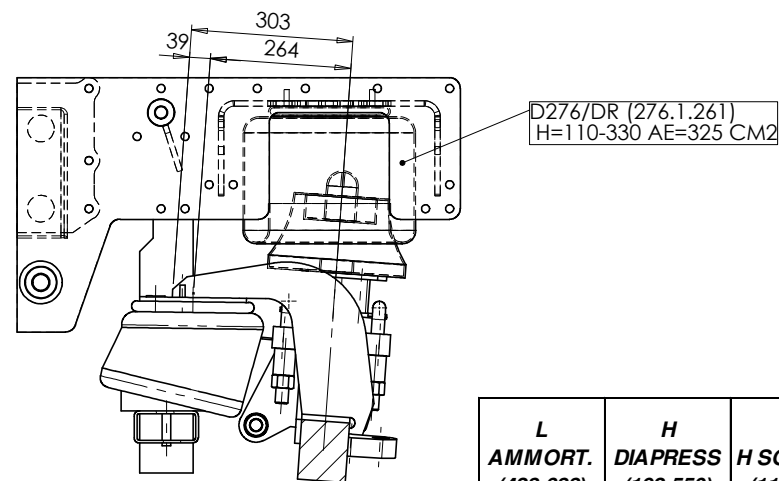
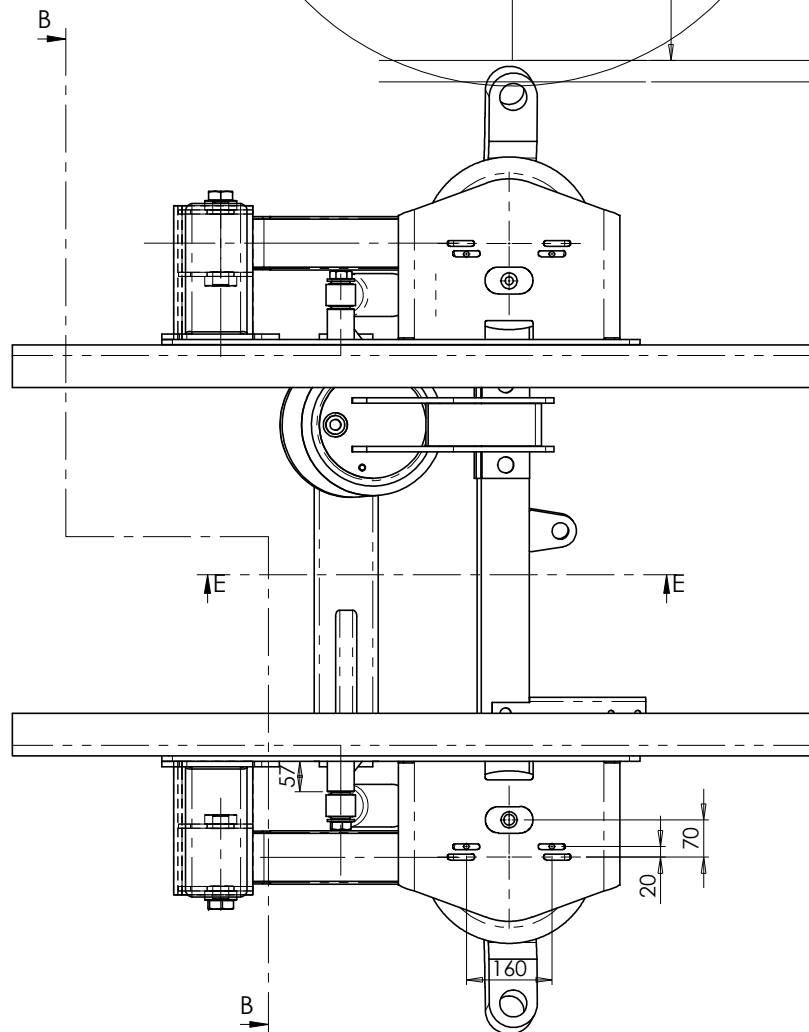
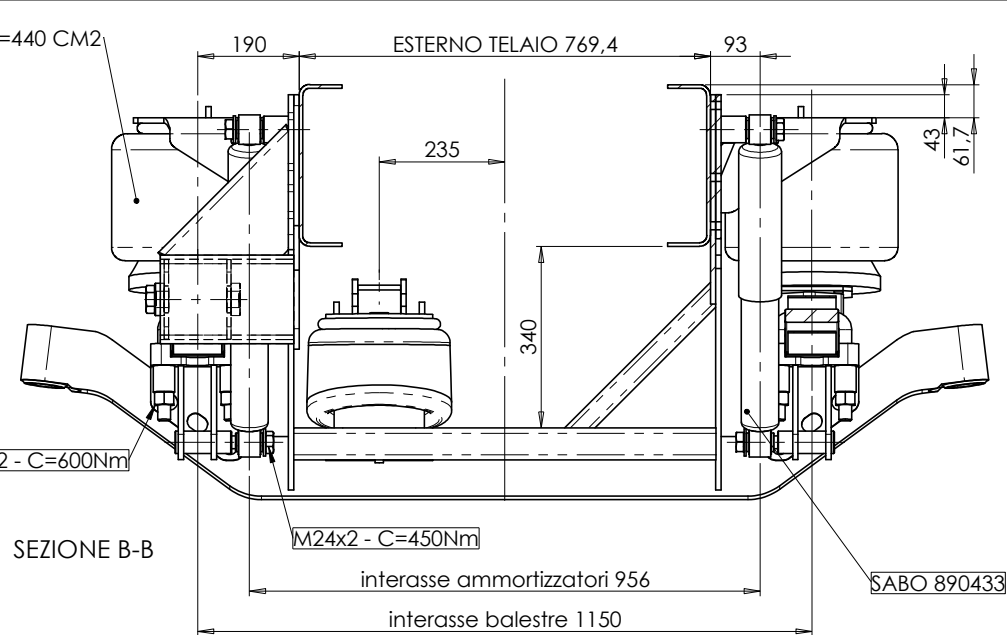
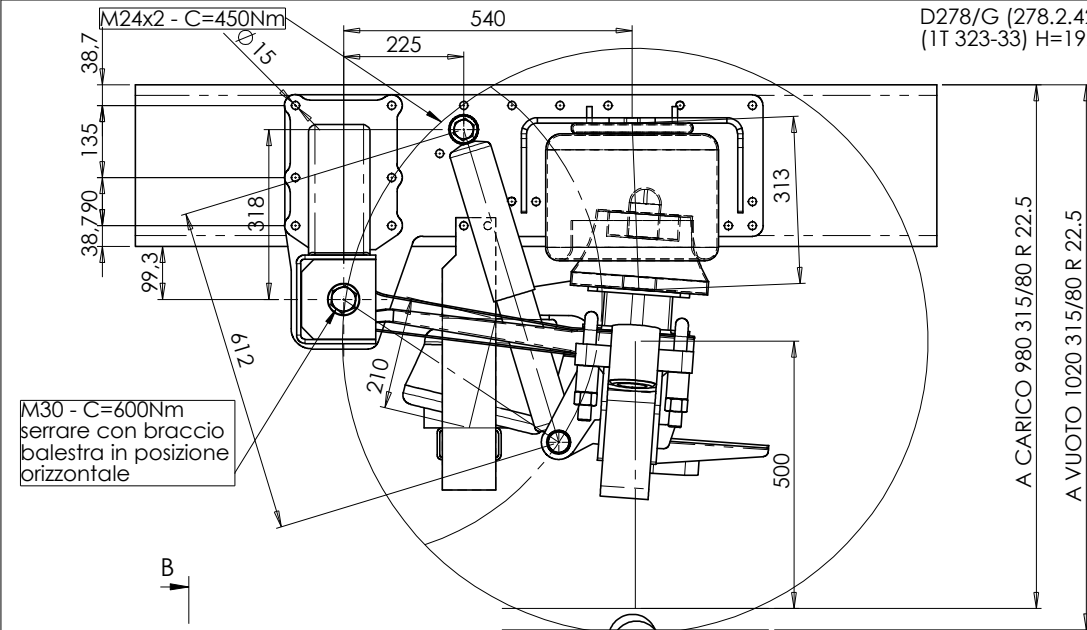
|                                                                                                                                                                                                                                                                   |                                                                               |                                                                                       |                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                      |                                                 |                                                      |                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------|-------------------------------------|
|                                                                                                                                                                              | Disegnato con :<br>Modificare solo con:<br>Drawing with:<br>Modify only with: |  | Formato disegno<br>Format Drawing<br><br>A3 UNI 936                                                                                                                                                                                                                                                         | Materiale<br>Material                                                                                                                                                | Trattamento termico<br>Heat treatment<br><br>-- | Finitura superficiale<br>Surface finishing<br><br>-- | Massa kg<br>Weight kg<br><br>493,45 |
| Quote senza indicazione di tolleranza secondo tabella UNI EN 22768/1, con grado di precisione MEDIO<br>Measures without tolerance according to indication according to UNI EN 22768/1, with a degree of precision MEDIUM                                          |                                                                               |                                                                                       | Unità di misura<br>Unit of measure<br>lineari - linear: mm<br>angoli: gradi sessagesimali<br>angles: sexagesimal degrees                                                                                                                                                                                    | Disegnato da<br>Drawing by<br><br>P.TOPPANO                                                                                                                          | Controllato da<br>Checked by<br><br>P.Martini   | Data<br>Date<br><br>27/10/2014                       | Scala<br>Scale<br><br>1:8           |
| <br><br>S.T. System Truck S.p.A.<br>via Paesa, 28 I 46048 Roverbella (MN)<br>tel. +39 0376 696809 - fax +39 0376 1760180<br>www.stsystemtruck.com --- info@stsystemtruck.com |                                                                               |                                                                                       | ISO 9001:2008<br><br><br>Disegno di proprietà della S.T.System Truck S.p.A.<br>Vietata la riproduzione non autorizzata.<br><br>Property of S.T.System Truck S.p.A.<br>Reproduction not permitted, all rights reserved. | Descrizione / Description<br>SOSPENSIONE INT. PNEUM. ASSE STERZ. IDR. IVECO STRALIS Y/PS 1+3<br>ASSALE ORIGINALE - VERSIONE BARRA PANHARD - EU 6 - SENZA SOLLEVATORE |                                                 |                                                      |                                     |
|                                                                                                                                                                                                                                                                   |                                                                               |                                                                                       |                                                                                                                                                                                                                                                                                                             | Codice / Code<br><b>F0.03.10.041/14*</b>                                                                                                                             | Disegno / Drawing<br><b>9055.00.0048</b>        | Foglio Sheet<br>1 / 2                                |                                     |



## INTERASSE STANDARD 1365 DA ASSE MOTORE

| <b>L<br/>AMMORT.</b> | <b>H<br/>DIAPRESS</b> | <b>H VEICOLO<br/>ASSE AGG.<br/>A VUOTO</b> | <b>H VEICOLO<br/>ASSE AGG.<br/>A CARICO</b> | <b>H ASSE<br/>MOTORE<br/>A CARICO</b> |
|----------------------|-----------------------|--------------------------------------------|---------------------------------------------|---------------------------------------|
| 532                  | 192                   | 941                                        | 900                                         |                                       |
| 616                  | 309                   | 1060                                       | 1021                                        |                                       |
| 740                  | 504                   | 1251                                       | 1212                                        |                                       |





SEZIONE E-E

| L<br>AMMORT.<br>(428-688) | H<br>DIAPRESS<br>(192-550) | H SOLLEV.<br>(110-330) | H VEICOLO<br>ASSE AGG.<br>A VUOTO | H VEICOLO<br>ASSE AGG.<br>A CARICO | H ASSE<br>MOTORE<br>A CARICO |
|---------------------------|----------------------------|------------------------|-----------------------------------|------------------------------------|------------------------------|
| 541                       | 192                        | 272                    | 899                               | 859                                | -121                         |
| 612                       | 313                        | 210                    | 1020                              | 980                                | 980                          |
| 688                       | 458                        | 135                    | 1160                              | 1120                               | 140                          |

|                                                                                                                                                                                                                                  |                                                                                                                                                                                                                          |                                                                                                           |                                                           |                                                           |                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------|
| <p>Disegnato con :<br/>Modificare solo con:<br/>Drawing with:<br/>Modify only with:</p>                                                                                                                                          | <p>Formato disegno<br/>Format Drawing<br/><b>A3 UNI 936</b></p>                                                                                                                                                          | <p>Materiale<br/>Material</p>                                                                             | <p>Trattamento termico<br/>Heat treatment<br/>--</p>      | <p>Finitura superficiale<br/>Surface finishing<br/>--</p> | <p>Massa kg<br/>Weight kg<br/><b>485,18</b></p> |
| <p>Quote senza indicazione di tolleranza secondo tabella UNI EN 22768/1, con grado di precisione MEDIO<br/>Measures without tolerance according to indication according to UNI EN 22768/1, with a degree of precision MEDIUM</p> | <p>Unità di misura<br/>Unit of measure<br/>lineari - linear: mm<br/>angoli: gradi sessagesimali<br/>angles: sexagesimal degrees</p>                                                                                      | <p>Disegnato da<br/>Drawing by<br/><b>M.SEMBENINI</b></p>                                                 | <p>Controllato da<br/>Checked by<br/><b>P.Martini</b></p> | <p>Data<br/>Date<br/><b>22/07/2013</b></p>                | <p>Scala<br/>Scale<br/><b>1:10</b></p>          |
| <p>ISO 9001:2008</p> <p>S.T. System Truck S.p.A.<br/>via Paesa, 28 I 46048 Roverbella (MN)<br/>tel. +39 0376 696809 - fax +39 0376 1760180<br/>www.stsystemtruck.com --- info@stsystemtruck.com</p>                              | <p>Disegno di proprietà<br/>della S.T. System Truck S.p.A.<br/>Vietata la riproduzione<br/>non autorizzata.</p> <p>Property of S.T. System Truck<br/>S.p.A.<br/>Reproduction not permitted,<br/>all rights reserved.</p> | <p>Descrizione / Description<br/><b>SOSPENSIONE PNEUMATICA ASSE INTERMEDIO<br/>STERZANTE IVECO MH</b></p> |                                                           |                                                           |                                                 |
| <p>ESSE</p>                                                                                                                                                                                                                      | <p>Codice / Code<br/><b>R11/14*9955020822</b></p>                                                                                                                                                                        | <p>Disegno / Drawing</p>                                                                                  | <p>Foglio Sheet<br/>1 / 2</p>                             |                                                           |                                                 |

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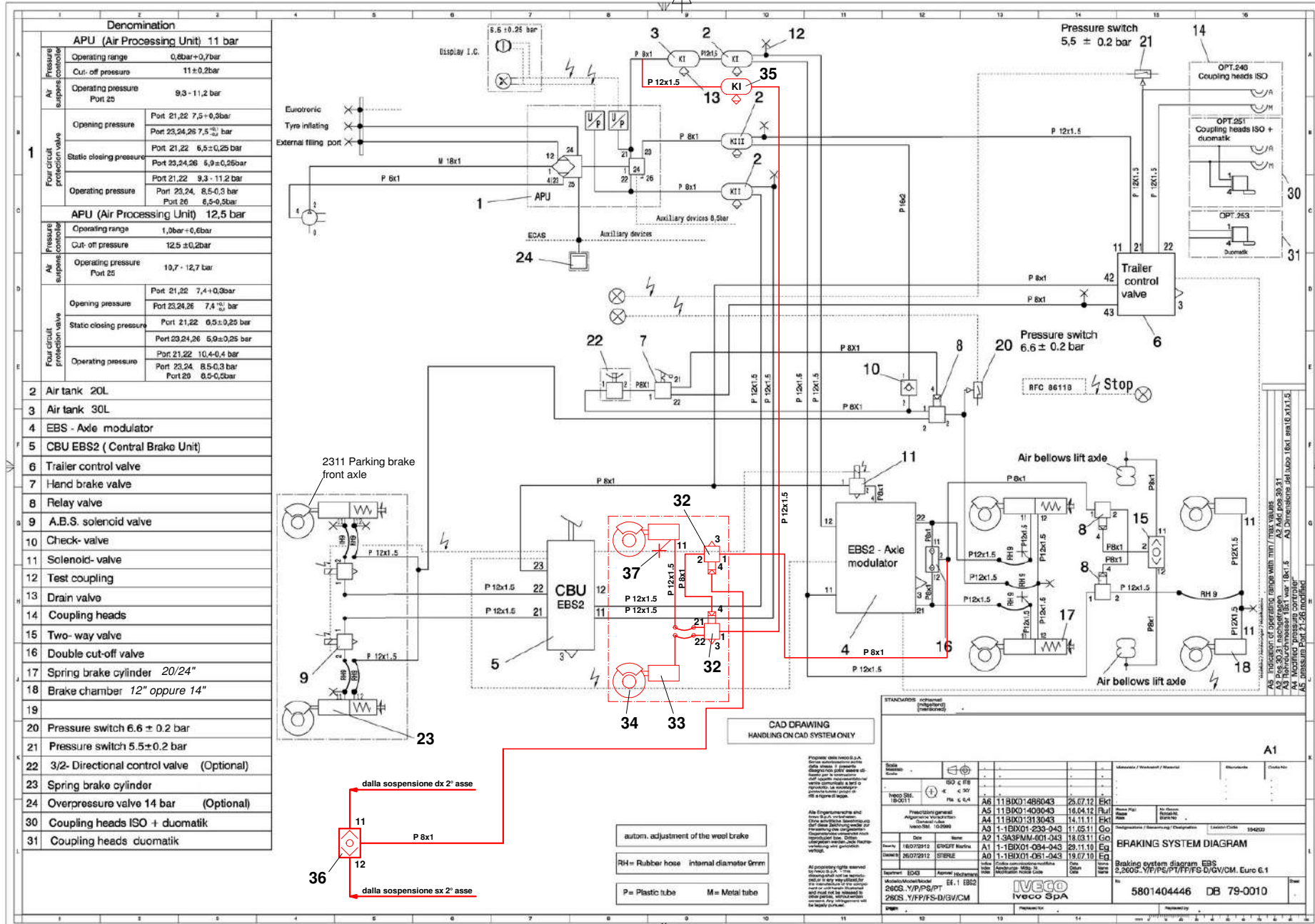
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PARTICOLARI DA AGGIUNGERE PER ALLESTIMENTO 8x2 (1+3)

| Pos. | Particolare                | Rif. IVECO           | Nota      |
|------|----------------------------|----------------------|-----------|
| 32   | Valvola relé               | 4103 1426 EB         |           |
| 33   | Cilindro freno 12"         | 4103 1956 EZ         |           |
| 34   | Freno a disco SN7          | 4121 1294 KZ         |           |
| 35   | Serbatoio aria 20 l        | 9849 2487 KZ         | Acciaio   |
| 36   | Serbatoio aria 20 l        | 9849 2816 KZ         | Alluminio |
| 37   | Selettore pressione max    |                      |           |
| 38   | Pressa controllo pressione |                      |           |
| 39   | Cilindro freno doppio      | 24/14" oppure 30/14" |           |

Schema impianto pneumatico sospensioni e servizi: vedi foglio 3/3

|                                                                                                                      |                              |                    |                |                                                                                                                                                   |                           |
|----------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Disegnato da<br>P. Toppino                                                                                           | Controllato da<br>P. Martini | Data<br>20.09.2013 | Scala<br>..... | Quote senza indicazione di tolleranza secondo<br>tabella UNI EN 22768/1, con grado<br>di precisione .....                                         | Codice fornitore<br>..... |
| Disegno di proprietà della S.T. System Truck S.p.A. Vietata la<br>riproduzione non autorizzata.                      |                              |                    |                | TITOLO SCHEMA IMPIANTO FRENANTE CON RIMORCHIABILE<br>IVECO 260S..Y/PP/FS-D/GV/CM 6x2 - con rimorchio -<br>EURO6 EBS2 allestimento 8x2 (conf. 1+3) |                           |
| S.T. System Truck S.p.A.<br>via Paesa, 28 - I 46048 Roverbella (MN)<br>tel. +39 0376 696809 - info@stsystemtruck.com |                              |                    |                | N° DISEGNO<br>25.01.20.0024<br>Modifica<br>2 del 18.06.18<br>Foglio<br>1/3                                                                        |                           |

Rev.2 del 18.06.2018 - Aggiunte misure brake chamber assi originali in alternativa - PT  
Rev.1 del 12.01.2015 - Modificato cartiglio - PT

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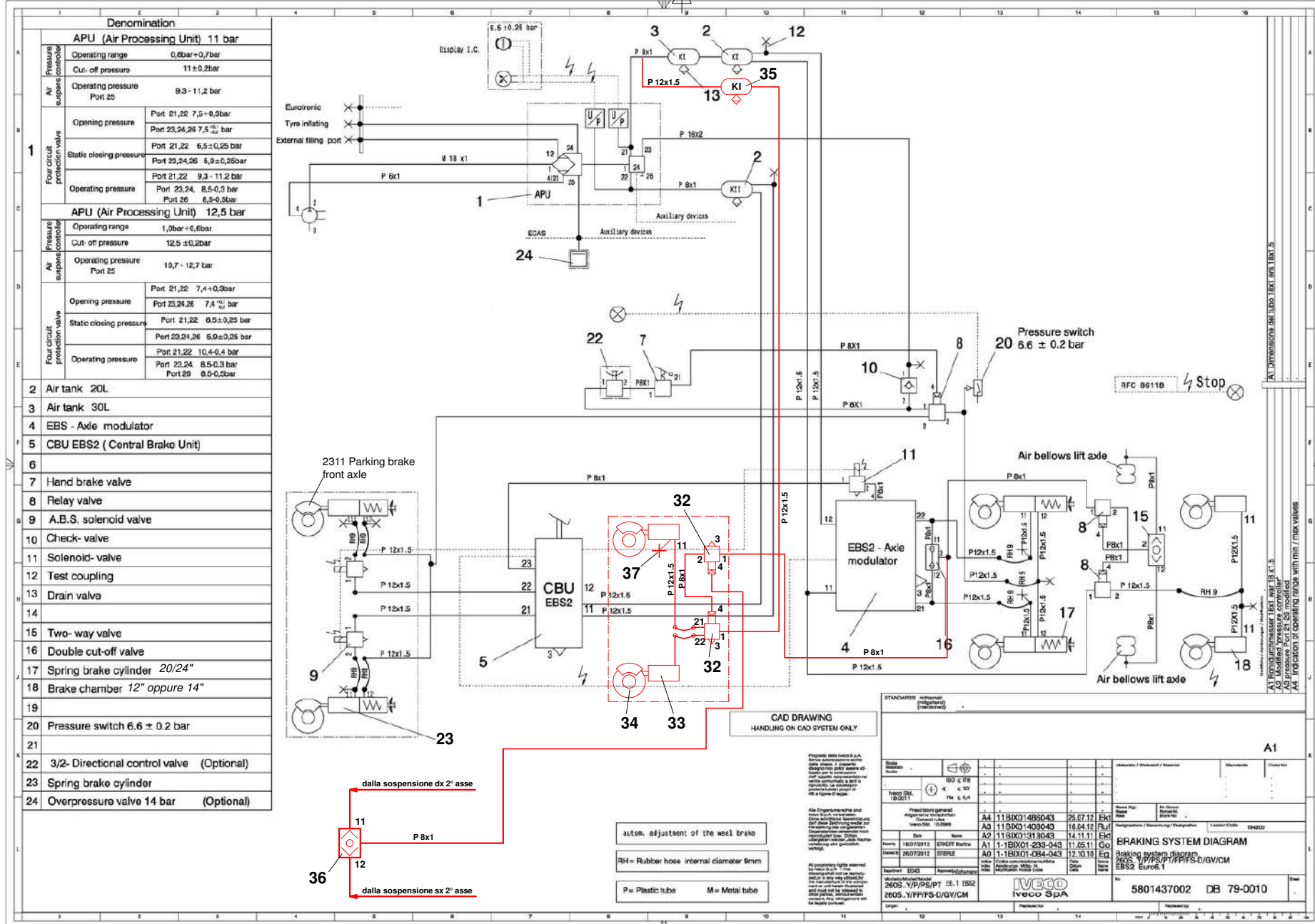
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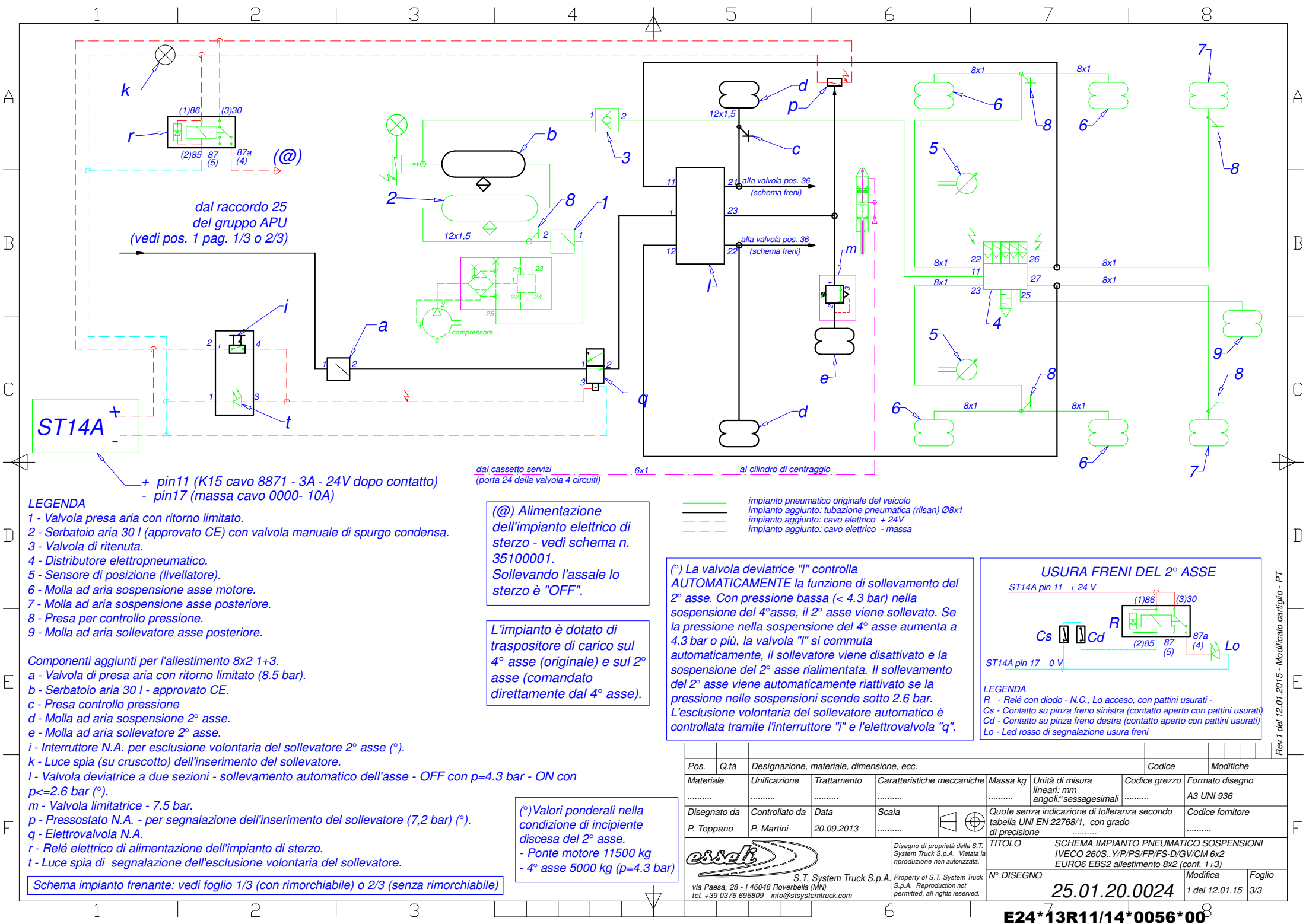
PARTICOLARI DA AGGIUNGERE PER ALLESTIMENTO 8x2 (1+3)

| Pos. | Particolare                | Rif. IVECO           | Nota      |
|------|----------------------------|----------------------|-----------|
| 32   | Valvola relé               | 4103 1426 EB         |           |
| 33   | Cilindro freno 12"         | 4103 1956 EZ         |           |
| 34   | Freno a disco SN7          | 4121 1294 KZ         |           |
| 35   | Serbatoio aria 20 l        | 9849 2487 KZ         | Acciaio   |
| 35   | Serbatoio aria 20 l        | 9849 2816 KZ         | Alluminio |
| 36   | Selettore pressione max    |                      |           |
| 37   | Pressa controllo pressione |                      |           |
| 23   | Cilindro freno doppio      | 24/14" oppure 30/14" |           |

Schema impianto pneumatico sospensioni e servizi: vedi foglio 3/3

|                                                                                                                      |                              |                    |                |                                                                                                                                                  |                           |
|----------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Disegnato da<br>P. Toppino                                                                                           | Controllato da<br>P. Martini | Data<br>20.09.2013 | Scala<br>..... | Quote senza indicazione di tolleranza secondo<br>tabella UNI EN 22768/1, con grado<br>di precisione .....                                        | Codice fornitore<br>..... |
| Disegno di proprietà della S.T. System Truck S.p.A. Vietata la<br>riproduzione non autorizzata.                      |                              |                    |                | TITOLO SCHEMA IMPIANTO FRENANTE SENZA RIMORCHIABILE<br>IVECO 260S..Y/PS/FP/FS-D/GV/CM 6x2 - isolato -<br>EURO6 EBS2 allestimento 8x2 (conf. 1+3) |                           |
| S.T. System Truck S.p.A.<br>via Paesa, 28 - I 46048 Roverbella (MN)<br>tel. +39 0376 696809 - info@stsystemtruck.com |                              |                    |                | N° DISEGNO<br>25.01.20.0024<br>Modifica<br>2 del 18.06.18                                                                                        |                           |

Rev.2 del 18.06.2018 - Aggiunte misure brake chamber assi originali in alternativa - PT  
Rev.1 del 12.01.2015 - Modificato cartiglio - PT



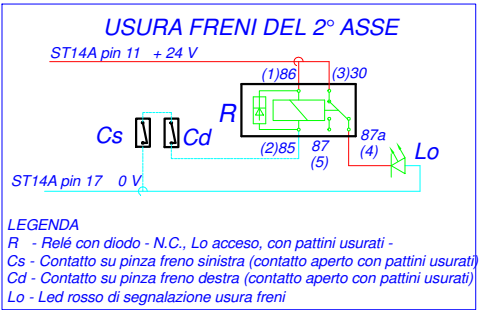
- LEGENDA**
- 1 - Valvola presa aria con ritorno limitato.
  - 2 - Serbatoio aria 30 l (approvato CE) con valvola manuale di spurgo condensa.
  - 3 - Valvola di ritenuta.
  - 4 - Distributore elettropneumatico.
  - 5 - Sensore di posizione (livellatore).
  - 6 - Molla ad aria sospensione asse motore.
  - 7 - Molla ad aria sospensione asse posteriore.
  - 8 - Presa per controllo pressione.
  - 9 - Molla ad aria sollevatore asse posteriore.
- Componenti aggiunti per l'allestimento 8x2 1+3.
- a - Valvola di presa aria con ritorno limitato (8.5 bar).
  - b - Serbatoio aria 30 l - approvato CE.
  - c - Presa controllo pressione
  - d - Molla ad aria sospensione 2° asse.
  - e - Molla ad aria sollevatore 2° asse.
  - i - Interruttore N.A. per esclusione volontaria del sollevatore 2° asse (°).
  - k - Luce spia (su cruscotto) dell'inserimento del sollevatore.
  - l - Valvola deviatrice a due sezioni - sollevamento automatico dell'asse - OFF con p=4.3 bar - ON con p<=2.6 bar (°).
  - m - Valvola limitatrice - 7.5 bar.
  - p - Pressostato N.A. - per segnalazione dell'inserimento del sollevatore (7,2 bar) (°).
  - q - Elettrovalvola N.A.
  - r - Relé elettrico di alimentazione dell'impianto di sterzo.
  - t - Luce spia di segnalazione dell'esclusione volontaria del sollevatore.

(@) Alimentazione dell'impianto elettrico di sterzo - vedi schema n. 35100001. Sollevando l'assale lo sterzo è "OFF".

L'impianto è dotato di traspositore di carico sul 4° asse (originale) e sul 2° asse (comandato direttamente dal 4° asse).

(°) Valori ponderali nella condizione di incipiente discesa del 2° asse.  
- Ponte motore 11500 kg  
- 4° asse 5000 kg (p=4.3 bar)

(°) La valvola deviatrice "l" controlla AUTOMATICAMENTE la funzione di sollevamento del 2° asse. Con pressione bassa (< 4.3 bar) nella sospensione del 4° asse, il 2° asse viene sollevato. Se la pressione nella sospensione del 4° asse aumenta a 4.3 bar o più, la valvola "l" si commuta automaticamente, il sollevatore viene disattivato e la sospensione del 2° asse viene automaticamente riattivato se la pressione nelle sospensioni scende sotto 2.6 bar. L'esclusione volontaria del sollevatore automatico è controllata tramite l'interruttore "i" e l'elettrovalvola "q".



Schema impianto frenante: vedi foglio 1/3 (con rimorchiabile) o 2/3 (senza rimorchiabile)

| Pos.                                                                                  | Q.tà                      | Designazione, materiale, dimensione, ecc. |                            |                                                                                                                     |                                                                                               | Codice        | Modifiche                  |
|---------------------------------------------------------------------------------------|---------------------------|-------------------------------------------|----------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------|----------------------------|
| Materiale                                                                             | Unificazione              | Trattamento                               | Caratteristiche meccaniche | Massa kg                                                                                                            | Unità di misura lineari: mm angoli:°sessagesimali                                             | Codice grezzo | Formato disegno A3 UNI 936 |
| Disegnato da P. Toppano                                                               | Controllato da P. Martini | Data 20.09.2013                           | Scala                      |                                                                                                                     | Quote senza indicazione di tolleranza secondo tabella UNI EN 22768/1, con grado di precisione |               | Codice fornitore           |
| S.T. System Truck S.p.A.                                                              |                           |                                           |                            | Disegno di proprietà della S.T. System Truck S.p.A. Vietata la riproduzione non autorizzata.                        |                                                                                               |               |                            |
| via Paesa, 28 - I-46048 Roverbella (MN) tel. +39 0376 696809 - info@stsystemtruck.com |                           |                                           |                            | Property of S.T. System Truck S.p.A. Reproduction not permitted, all rights reserved.                               |                                                                                               |               |                            |
| TITOLO                                                                                |                           |                                           |                            | SCHEMA IMPIANTO PNEUMATICO SOSPENSIONI IVECO 260S. Y/P/PS/FP/FS-D/GV/CM 6x2 EURO6 EBS2 allestimento 8x2 (conf. 1+3) |                                                                                               |               |                            |
| N° DISEGNO                                                                            |                           |                                           |                            | 25.01.20.0024                                                                                                       |                                                                                               |               |                            |
|                                                                                       |                           |                                           |                            | Modifica 1 del 12.01.15                                                                                             |                                                                                               |               |                            |
|                                                                                       |                           |                                           |                            | Foglio 3/3                                                                                                          |                                                                                               |               |                            |

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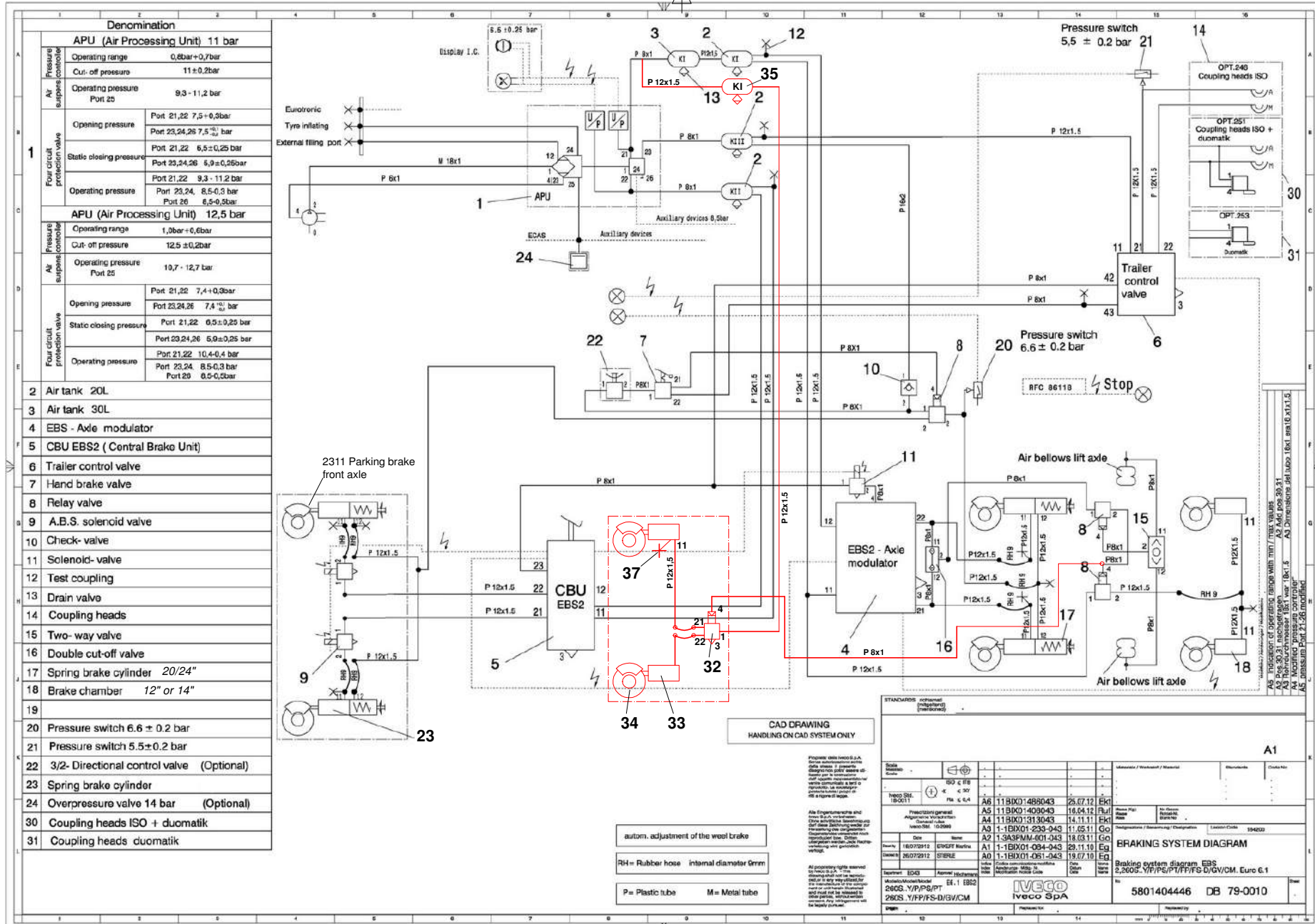
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ADDED COMPONENTS FOR CONVERSION 8x2 (1+3)

| Pos | Description             | Rif. IVECO       | Note      |
|-----|-------------------------|------------------|-----------|
| 32  | Relay                   | 4103.1426 EB     |           |
| 33  | Brake chamber 12"       | 4103.1956 EZ     |           |
| 34  | Freno a disco SN7       | 4121.1294 KZ     |           |
| 35  | Air tank 20L            | 9849.2487 KZ     | Steel     |
| 35  | Air tank 30L            | 9849.2816 KZ     | Aluminium |
| 37  | Pressure take-off point |                  |           |
| 23  | Brake chamber           | 24/14" or 30/14" |           |

Suspension layout drawing: see page 3/3

Disegnato da P. Toppino  
Controllato da P. Martini  
Data 04.09.2014  
Scala .....

**esset**  
S.T. System Truck S.p.A.  
via Paesa, 28 - I 46048 Roverbella (MN)  
tel. +39 0376 696809 - info@stsystemtruck.com

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Quote senza indicazione di tolleranza secondo tabella UNI EN 22768/1, con grado di precisione .....

**TITOLO BRAKE SYSTEM LAYOUT**  
IVECO 260S..Y/PPS/FP/FS-D/GV/CM 6x2 with trailer mass EURO6 EBS2 built into 8x2 (conf. 1+3) without lift axle device

N° DISEGNO **25.01.20.0031**

Modifica 3 del 18.06.18

Foglio 1/3

Rev.3 del 18.06.2018 - Aggiunte misure brake chamber assi originali in alternativa - PT  
Rev.2 del 20.02.2015 - Modifica impianto frenante (alimentazione relè n° 32) - PT  
Rev.1 del 12.01.2015 - Modificato cartiglio - PT

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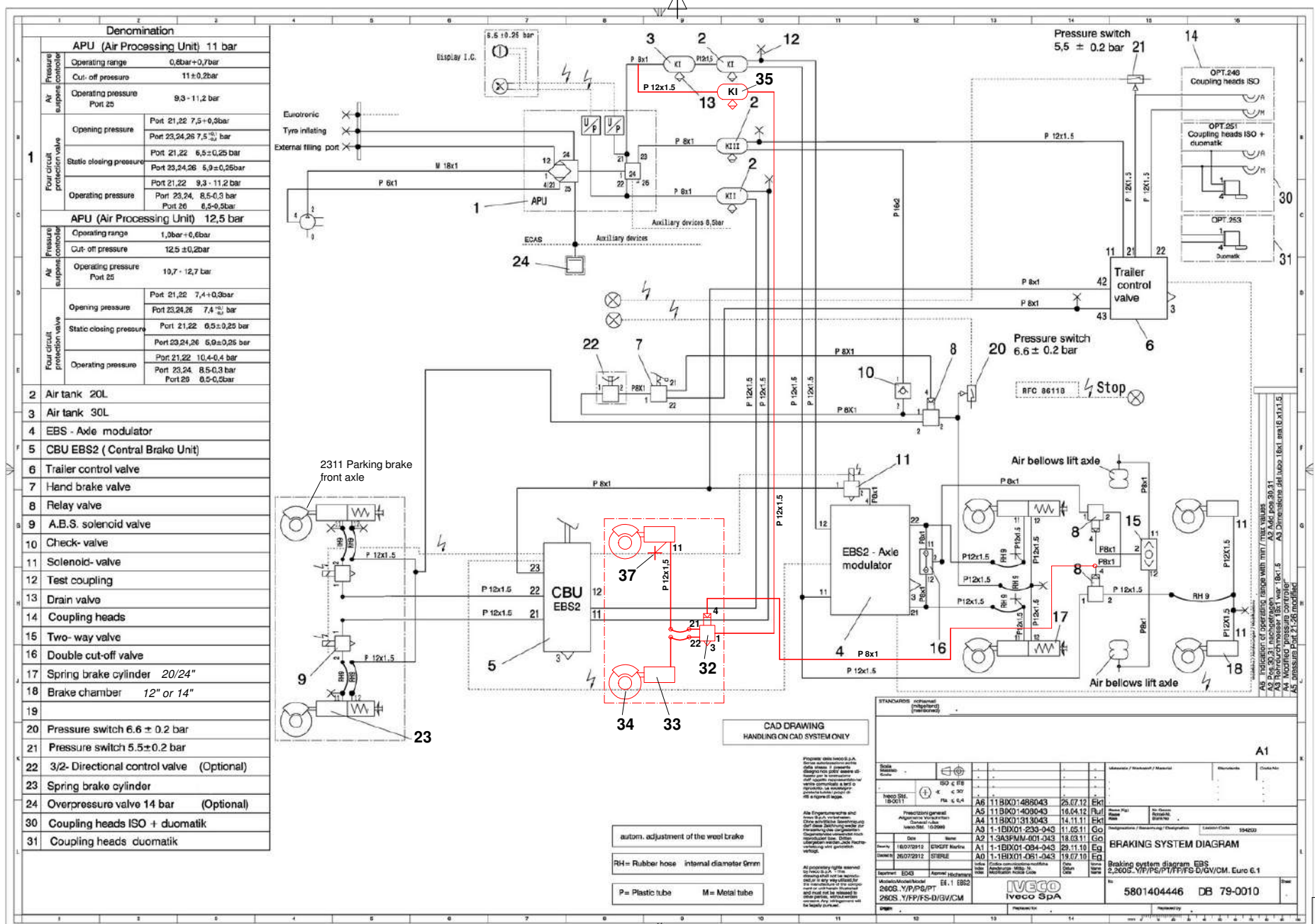
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ADDED COMPONENTS FOR CONVERSION 8x2 (1+3)

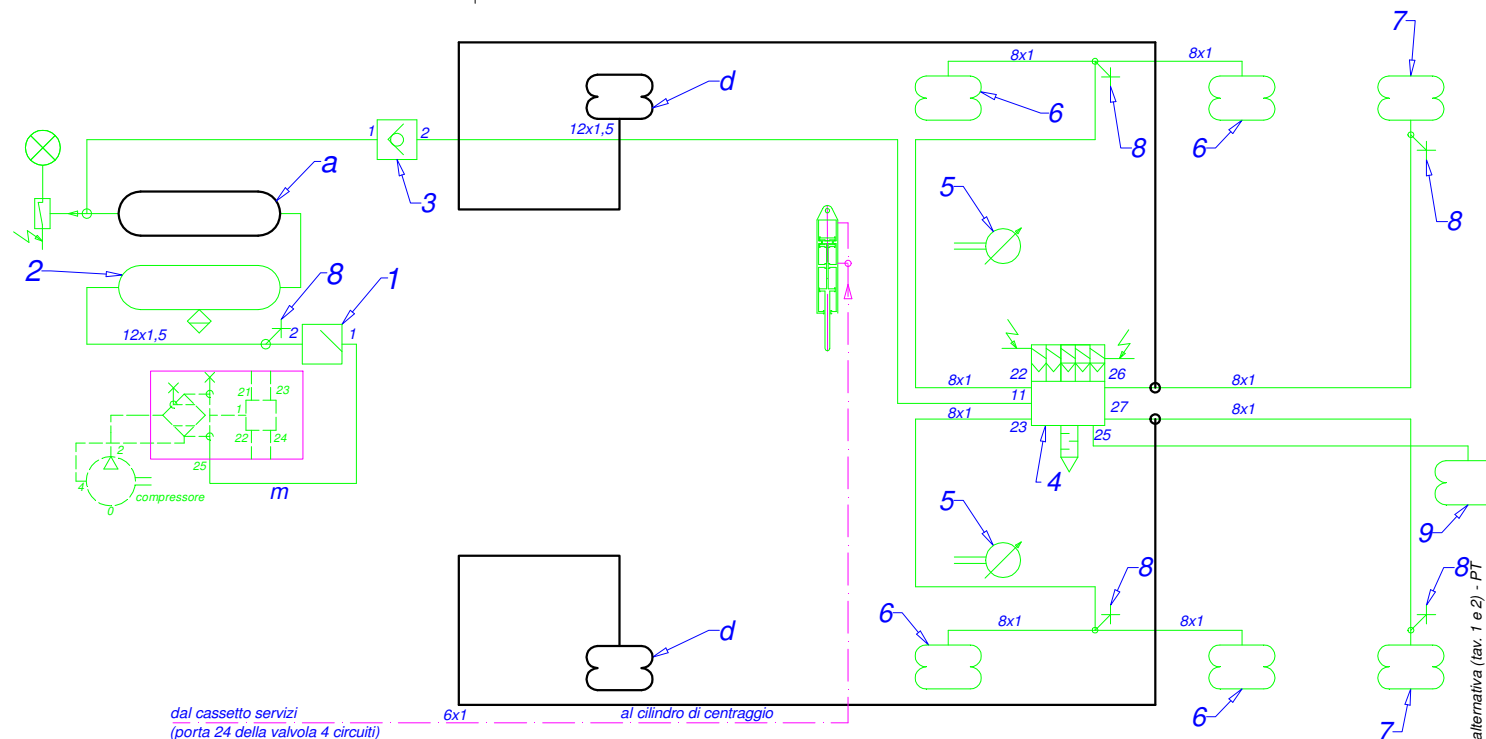
| Pos | Description             | Rif. IVECO       | Note      |
|-----|-------------------------|------------------|-----------|
| 32  | Relay                   | 4103.1426 EB     |           |
| 33  | Brake chamber 12"       | 4103.1956 EZ     |           |
| 34  | Freno a disco SN7       | 4121.1294 KZ     |           |
| 35  | Air tank 20L            | 9849.2487 KZ     | Steel     |
| 36  | Air tank 30L            | 9849.2816 KZ     | Aluminium |
| 37  | Pressure take-off point |                  |           |
| 23  | Brake chamber           | 24/14" or 30/14" |           |

Suspension layout drawing: see page 3/3

|                                                                                                                                                          |                              |                    |                |                                                                                                           |                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------|----------------|-----------------------------------------------------------------------------------------------------------|---------------------------|
| Disegnato da<br>P. Toppino                                                                                                                               | Controllato da<br>P. Martini | Data<br>04.09.2014 | Scala<br>..... | Quote senza indicazione di tolleranza secondo<br>tabella UNI EN 22768/1, con grado<br>di precisione ..... | Codice fornitore<br>..... |
|                                                                                                                                                          |                              |                    |                | Modifiche                                                                                                 |                           |
| Disegno di proprietà della S.T. System Truck S.p.A. Vietata la riproduzione non autorizzata.                                                             |                              |                    |                | Formato disegno<br>A3 UNI 936                                                                             |                           |
| TITOLO BRAKE SYSTEM LAYOUT<br>IVECO 260S. Y/PPS/FP/FS-D/GV/CM 6x2 without trailer mass<br>EURO6 EBS2 built into 8x2 (conf. 1+3) without lift axle device |                              |                    |                | Codice fornitore<br>.....                                                                                 |                           |
| N° DISEGNO<br>5801404446 DB 79-0010                                                                                                                      |                              |                    |                | Modifica<br>3 del 18.06.18                                                                                |                           |
| 25.01.20.0031                                                                                                                                            |                              |                    |                | Foglio<br>2/3                                                                                             |                           |

Rev.3 del 18.06.2018 - Aggiunte misure brake chamber assi originali in alternativa - PT  
Rev.2 del 20.02.2015 - Modifica impianto frenante (alimentazione relè n° 32) - PT  
Rev.1 del 12.01.2015 - Modificato cartiglio - PT

— impianto pneumatico originale del veicolo  
 — impianto aggiunto: tubazione pneumatica (nlsan) Ø8x1  
 - - - impianto aggiunto: cavo elettrico + 24V  
 - - - impianto aggiunto: cavo elettrico - massa



#### LEGEND

- 1 - Pressure limiting return valve.
- 2 - Air tank 30 L (approved CE) with manual spurge valve.
- 3 - Retainer valve.
- 4 - Distributor electro-pneumatic.
- 5 - Position sensor (level).
- 6 - Suspension air bagf or drive axle.
- 7 - Suspension air bag for rear axle.
- 8 - Pressure take-off point.
- 9 - Axle lifting air bag on rear axle.

Added components for body builder 8x2, conf. 1+3:

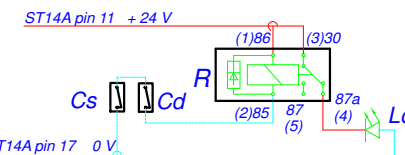
- a - Air tank 30 L (approved CE)
- d - Suspension air bag 2nd axle.

Brake layout drawing: see page 1/3 (with trailer mass) or 2/3 (without trailer mass)

(@) Alimentazione dell'impianto elettrico di sterzo - vedi schema n. 35100001.

L'impianto è dotato di traspositore di carico sul 4° asse (originale) e sul 2° asse (comandato direttamente dal 4° asse).

#### USURA FRENI DEL 2° ASSE



#### LEGENDA

- R - Relé con diodo - N.C., Lo acceso, con pattini usurati
- Cs - Contatto su pinza freno sinistra (contatto aperto con pattini usurati)
- Cd - Contatto su pinza freno destra (contatto aperto con pattini usurati)
- Lo - Led rosso di segnalazione usura freni

| Pos.                                                                                                                 | Q.tà                      | Designazione, materiale, dimensione, ecc. |                            |                                                                                                                                         |                                                                                               | Codice        | Modifiche                  |
|----------------------------------------------------------------------------------------------------------------------|---------------------------|-------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------|----------------------------|
| Materiale                                                                                                            | Unificazione              | Trattamento                               | Caratteristiche meccaniche | Massa kg                                                                                                                                | Unità di misura lineari: mm angoli:°sessagesimali                                             | Codice grezzo | Formato disegno A3 UNI 936 |
| Disegnato da P. Toppano                                                                                              | Controllato da P. Martini | Data 04.09.2014                           | Scala                      |                                                                                                                                         | Quote senza indicazione di tolleranza secondo tabella UNI EN 22768/1, con grado di precisione |               | Codice fornitore           |
|                                                                                                                      |                           |                                           |                            | Disegno di proprietà della S.T. System Truck S.p.A. Vietata la riproduzione non autorizzata.                                            |                                                                                               |               |                            |
| S.T. System Truck S.p.A.<br>via Paesa, 28 - I 46048 Roverbella (MN)<br>tel. +39 0376 696809 - info@stsystemtruck.com |                           |                                           |                            | TITOLO PNEUMATIC SYSTEM SCHEME<br>IVECO 260S..Y/P/PS/FP/FS-D/GV/CM 6x2<br>EURO6 EBS2 built into 8x2 (conf. 1+3) without liftaxle device |                                                                                               |               |                            |
| N° DISEGNO                                                                                                           |                           |                                           |                            | 25.01.20.0031                                                                                                                           |                                                                                               |               |                            |
|                                                                                                                      |                           |                                           |                            | Modifica 3 del 18.06.18                                                                                                                 |                                                                                               |               |                            |
|                                                                                                                      |                           |                                           |                            | Foglio 3/3                                                                                                                              |                                                                                               |               |                            |

E24\*13R11/14\*0056\*00

Rev.3 del 18.06.2018 - Aggiunte misure brake chamber assi originali in alternativa (tav. 1 e 2) - PT  
 Rev.2 del 20.02.2015 - Modifica impianto frenante - PT  
 Rev.1 del 12.01.2015 - Modificato cartiglio - PT



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Typ: ST 2Y3C 13R

Hersteller: S.T. System Truck S.p.A.  
IT-46048 Roverbella (MN)



## Test Report

### No. IT18/1369 Vers. 00

Agreement concerning the Adoption of Harmonized Technical United Nations Regulations for Wheeled Vehicles, Equipment and Parts which can be Fitted and/or be Used on Wheeled Vehicles and the Conditions for Reciprocal Recognition of Approvals Granted on the Basis of these United Nations Regulations (Revision 3)

### Uniform provisions concerning the approval of vehicles of categories M, N and O with regard to braking

**UN-R13**

of **01.06.1970**

as last amended by

**series of amendments 11 – Supplement 14**

of **09.02.2017**

#### Approval status

|                                     |                                                                             |
|-------------------------------------|-----------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | Granting of a type approval No. E24*13R11/14*0056*00 (Allocated in advance) |
| <input type="checkbox"/>            | Extension to type approval no. ....                                         |
| <input type="checkbox"/>            | Correction to type approval no. ....                                        |
| <input type="checkbox"/>            | Documentation of test results                                               |

#### Structure of the Test Report:

- 0 : General
- 1 : Test vehicle(s)/-object(s)
- 2 : Test record
- 3 : Enclosures
- 4 : Statement of conformity

Duplication and publishing in extracts of the Test Report is allowed only by written permission of the Test Laboratory.

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Test Report No.: IT18/1369 - 00  
UNECE R13-11

Typ: ST 2Y3C 13R

Hersteller: S.T. System Truck S.p.A.  
IT-46048 Roverbella (MN)

---



## **0 General**

- 0.1 Make : Iveco / System Truck
- 0.2 Type : ST 2Y3C 13R
- 0.2.1 Variant(s)/version(s) : See information document - Annex 0.0 and 0.1
- 0.2.2 Commercial name(s) : See information document point 0.2.1.
- 0.3 Category of vehicle : N3
- 0.4 Name and address of the manufacturer : S.T. System Truck S.p.A.  
Via Paesa, 28  
IT-46048 Roverbella (MN)
- 0.4.1 For multi-stage approved vehicles, company name and address of the manufacturer of the base/previous stage(s) vehicle: : Iveco Magirus AG  
DE-89070 Ulm
- 0.5 Information folder :  
Information document
- No : ST\_2Y3C\_13R
- Date of issue : 25.06.2018
- Date of last change : not applicable
- 0.6 List of modifications : not applicable (basic test report)

## 1 Test vehicle(s)/ - object(s):

- 1.1 Description: : representative vehicle (series of tests A)
- 1.1.1 Variant: : ICS  
Version: : 11CB6DFS80B2B80SMPNF  
VIN (Stage 1): : WJME2NUH60C287796
- 1.1.2 Gear box type: : 16S 222? TD (Manual)  
No. of gears: : 16
- 1.1.3 Number and arrangement of axles: : 4; 1<sup>st</sup> steering / non powered axle  
2<sup>nd</sup> steering / non powered axle  
3<sup>rd</sup> fixed / powered axle  
4<sup>th</sup> steering / non powered axle
- 1.1.4 Wheelbase(s): : 1-2: 2835 mm  
2-3: 1365 mm  
3-4: 1395 mm
- 1.1.5 Tyres  
1<sup>st</sup> axle: : 385/65 R22,5 160/-K (single)  
2<sup>nd</sup> axle: : 315/80 R22,5 156/-K (single)  
3<sup>rd</sup> axle: : 315/80 R22,5 -/150K (twin)  
4<sup>th</sup> axle: : 315/80 R22,5 156/-K (single)
- 1.1.6 Kind of suspension: : 1<sup>st</sup> longitudinal parabolic leafspring  
2<sup>nd</sup> pneumatic  
3<sup>rd</sup> pneumatic  
4<sup>th</sup> pneumatic
- 1.1.7 Engine  
Manufacturer: : FPT Industrial S.p.A.  
Type: : F4AFE411C
- 1.1.8 Brakes  
Type and characteristics of the brakes: : Compressed air brake system with separate circuits for the front, rear, parking and auxiliary equipment, electronically and/or pneumatically controlled.

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Brake lining: : 1<sup>st</sup> axle: Make: Ferodo - Type: 4550 (IS25)  
2<sup>nd</sup> axle: Make: Ferodo - Type: 4550 (IS25)  
3<sup>rd</sup> axle: Make: Ferodo - Type: 4550 (IS25)  
4<sup>th</sup> axle: Make: Ferodo - Type: 4550 (IS25)  
asbestos free

Wheel brake: : 1<sup>st</sup> axle: brake disk Ø432 mm  
2<sup>nd</sup> axle: brake disk Ø432 mm  
3<sup>rd</sup> axle: brake disk Ø432 mm  
4<sup>th</sup> axle: brake disk Ø432 mm

Brake Chamber: : 1<sup>st</sup> axle: 24/14"  
2<sup>nd</sup> axle: 12"  
3<sup>rd</sup> axle: 20/24"  
4<sup>th</sup> axle: 14"

Anti-lock braking system: : Category 1

Service braking system: : Foot operated, air brake with mechanical control.  
Two circuit: 1<sup>st</sup> for axles 1,  
2<sup>nd</sup> for axles 2, 3 and 4.

Secondary braking system: : 2<sup>nd</sup> circuit of the service braking system

Parking braking system: : Spring brake, manual control, mechanical actuated on axle 1 and 3

1.1.9 Mass of vehicle during test(s)

|                              | unladen | laden    |
|------------------------------|---------|----------|
| Total:                       | 9670 kg | 36010 kg |
| 1 <sup>st</sup> axle:        | 4720 kg | 9010 kg  |
| 2 <sup>nd</sup> axle:        | 1420 kg | 7250 kg  |
| 3 <sup>rd</sup> axle:        | 2180 kg | 11750 kg |
| 4 <sup>th</sup> axle:        | 1350 kg | 8000 kg  |
| Height of center of gravity: | 980 mm  | 1500 mm  |

1.1.10 Maximum speed: : 90 km/h

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Hersteller: S.T. System Truck S.p.A.  
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- 1.2 Description: : representative vehicle (series of tests B)
- 1.2.1 Variant: : BCS  
Version: : 12CBCSRS80B2B80SMPNF A  
VIN (Stage 1): : WJME62RU90C399721
- 1.2.2 Gear box type: : 12TX 242O TD (Manual)  
No. of gears: : 12
- 1.2.3 Number and arrangement of axles: : 4; 1<sup>st</sup> steering / non powered axle  
2<sup>nd</sup> steering / non powered axle  
3<sup>rd</sup> fixed / powered axle  
4<sup>th</sup> steering / non powered axle
- 1.2.4 Wheelbase(s): : 1-2: 2835 mm  
2-3: 1365 mm  
3-4: 1395 mm
- 1.2.5 Tyres  
1<sup>st</sup> axle: : 315/80 R22,5 156/-K (single)  
2<sup>nd</sup> axle: : 315/80 R22,5 156/-K (single)  
3<sup>rd</sup> axle: : 315/80 R22,5 -/150K (twin)  
4<sup>th</sup> axle: : 315/80 R22,5 156/-K (single)
- 1.2.6 Kind of suspension: : 1<sup>st</sup> longitudinal parabolic leafspring  
2<sup>nd</sup> pneumatic  
3<sup>rd</sup> pneumatic  
4<sup>th</sup> pneumatic
- 1.2.7 Engine  
Manufacturer: : FPT Industrial S.p.A.  
Type: : F3HFE611G
- 1.2.8 Brakes  
Type and characteristics of the brakes: : Compressed air brake system with separate circuits for the front, rear, parking and auxiliary equipment, electronically and/or pneumatically controlled.  
Brake lining: : 1<sup>st</sup> axle: Make: Ferodo - Type: 4550 (IS25)  
2<sup>nd</sup> axle: Make: Ferodo - Type: 4550 (IS25)  
3<sup>rd</sup> axle: Make: Ferodo - Type: 4550 (IS25)  
4<sup>th</sup> axle: Make: Ferodo - Type: 4550 (IS25)  
asbestos free

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Wheel brake: : 1<sup>st</sup> axle: brake disk Ø432 mm  
 2<sup>nd</sup> axle: brake disk Ø432 mm  
 3<sup>rd</sup> axle: brake disk Ø432 mm  
 4<sup>th</sup> axle: brake disk Ø432 mm

Brake Chamber: : 1<sup>st</sup> axle: 30/14"  
 2<sup>nd</sup> axle: 12"  
 3<sup>rd</sup> axle: 20/24"  
 4<sup>th</sup> axle: 12" (Annex 4) resp. 14" (Annex 13)

Anti-lock braking system: : Category 1

Service braking system: : Foot operated, air brake with mechanical control.  
 Two circuit: 1<sup>st</sup> for axles 1, 2<sup>nd</sup> for axles 2, 3 and 4.

Secondary braking system: : 2<sup>nd</sup> circuit of the service braking system

Parking braking system: : Spring brake, manual control, mechanical actuated on axle 1 and 3

#### 1.2.9 Mass of vehicle during test(s)

|                              | unladen  | laden    |
|------------------------------|----------|----------|
| Total:                       | 10430 kg | 35190 kg |
| 1 <sup>st</sup> axle:        | 5160 kg  | 8010 kg  |
| 2 <sup>nd</sup> axle:        | 1420 kg  | 7400 kg  |
| 3 <sup>rd</sup> axle:        | 2430 kg  | 11900 kg |
| 4 <sup>th</sup> axle:        | 1420 kg  | 7880 kg  |
| Height of center of gravity: | 980 mm   | 1360 mm  |

1.2.10 Maximum speed: : 90 km/h

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Hersteller: S.T. System Truck S.p.A.  
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- 2 Test record
- 2.1 Place of test : IT-Balocco (VC) + IT-Roverbella (MN)  
Date of test : series of tests A :  
30.05.2014 + 17.06.2014  
series of tests B:  
06.07.2018 + 19.07.2018
- 2.2 Parameter of the test area  
Test track : Asphalt & concrete dry, ceramic tiles wet  
Air temperature : series of tests A :  
27 °C  
series of tests B :  
29 °C  
Velocity of wind : < 2,5m/s
- 2.3 Equipment for measuring and testing : The equipment on which the tests were carried out, fulfilled the requirements of the above mentioned Regulation.



## 2.4 Test results

### Series of tests A

#### 2.4.1 Test type 0:

| Unladen<br>Engine disconnected | Test speed<br>[km/h] | Braking<br>performance<br>[m/s <sup>2</sup> ] | Force applied to<br>the control<br>[N] |
|--------------------------------|----------------------|-----------------------------------------------|----------------------------------------|
| Service brake                  | 60                   | 6.0                                           | 50                                     |
| Axle 1                         | 40                   | 3.5                                           | 120                                    |
| Axle 2+3+4                     | 40                   | 2.2                                           | 200                                    |
| Service brake<br>(@3bar)       | 40                   | 4.2                                           | 100                                    |

No abnormal vibration, vehicle keeps lane

| Laden<br>Engine disconnected | Test speed<br>[km/h] | Braking<br>performance<br>[m/s <sup>2</sup> ] | Force applied to<br>the control<br>[N] |
|------------------------------|----------------------|-----------------------------------------------|----------------------------------------|
| Service brake                | 60                   | 6.4                                           | 100                                    |
| Axle 1                       | 40                   | 3.0                                           | 200                                    |
| Axle 2+3+4                   | 40                   | 4.0                                           | 140                                    |
| Service brake<br>(@3bar)     | 40                   | 5.5                                           | 100                                    |

No abnormal vibration, vehicle keeps lane

| Unladen<br>Engine connected | Test speed<br>[km/h] | Braking<br>performance<br>[m/s <sup>2</sup> ] | Force applied to<br>the control<br>[N] |
|-----------------------------|----------------------|-----------------------------------------------|----------------------------------------|
|                             | 27                   | 6.1                                           | 70                                     |
|                             | 35                   | 6.0                                           | 50                                     |
|                             | 72                   | 6.5                                           | 100                                    |

No abnormal vibration, vehicle keeps lane

| Laden<br>Engine connected | Test speed<br>[km/h] | Braking<br>performance<br>[m/s <sup>2</sup> ] | Force applied to<br>the control<br>[N] |
|---------------------------|----------------------|-----------------------------------------------|----------------------------------------|
|                           | 27                   | 5.0                                           | 100                                    |
|                           | 35                   | 5.0                                           | 110                                    |
|                           | 72                   | 5.0                                           | 100                                    |

No abnormal vibration, vehicle keeps lane

#### 2.4.3 Test type I:

Conditions during the heating : duration of a braking cycle: 60s  
 No. of brake cycles: 20  
 Initial speed V1: 60km/h  
 Final speed V2: 30km/h  
 deceleration dm: 3m/s<sup>2</sup>

| Laden                  | Test speed<br>[km/h] | Braking performance<br>[m/s <sup>2</sup> ] | Force applied to the control<br>[N] |
|------------------------|----------------------|--------------------------------------------|-------------------------------------|
| Service brake (heated) | 60                   | 5.5                                        | 150                                 |

No abnormal vibration, vehicle keeps lane

#### 2.4.4 Test type II

Equivalent test on track : 1,2 m/s<sup>2</sup>  
 Braking system(s) used : Engine brake integrated with retarder

#### 2.4.5 Test type IIA

Equivalent test on track : 1,2 m/s<sup>2</sup>  
 Braking system(s) used : Engine brake integrated with retarder

#### 2.4.6 Parking brake

Holding force:  
 Uphill gradient (18%) : 6,5t (forward)  
 Downhill gradient (18%) : 6,5t (reverse)

2.4.7 Reaction time : 0,6 ≤ 0,6s

2.4.8 Dimensions of flexible pipes : fulfilled  
 (refer to drawing no. 25.01.20.0024)

2.4.9 Charging time of air reservoirs : fulfilled  
 T1= 1' 10"; T2= 4' 45"; T3=6' 00"  
 (vehicles to which the coupling of a trailer is authorized)

2.4.10 Spring brake according to Annex 8 : fulfilled

2.4.11 Compatibility between tractor and trailer : fulfilled

2.4.12 ABS according to Annex 13

General requirements : fulfilled

2.4.13 ABS - Energy consumption : Braking performance @ 40km/h at the 5<sup>th</sup> full brake with brakes reservoirs isolated: 5.5 m/s<sup>2</sup>

|                                        |                         |                         |                             |
|----------------------------------------|-------------------------|-------------------------|-----------------------------|
| 2.4.14 ABS - Utilization of adhesion : | $k_a$<br>[ $\geq 0,5$ ] | $k_b$<br>[ $\leq 0,3$ ] | $k_a/k_b$<br>[ $\geq 2,0$ ] |
| Laden:                                 | 0.580                   | 0.136                   | 4.3                         |
| Unladen:                               | 0.671                   | 0.115                   | 5.8                         |

|          |                               |                               |
|----------|-------------------------------|-------------------------------|
|          | Low grip surface              | High grip surface             |
|          | $\epsilon$<br>[ $\geq 0,75$ ] | $\epsilon$<br>[ $\geq 0,75$ ] |
| Laden:   | 0.98                          | 0.92                          |
| Unladen: | 0.84                          | 0.89                          |

2.4.15 ABS - Additional checks : fulfilled

2.4.16 ABS - Residual braking performance in event of failure within the electric control transmission :

|          |                      |                                            |                                     |
|----------|----------------------|--------------------------------------------|-------------------------------------|
|          | Test speed<br>[km/h] | Braking performance<br>[m/s <sup>2</sup> ] | Force applied to the control<br>[N] |
| Laden:   | 40                   | 3.0                                        | 50                                  |
| Unladen: | 40                   | 3.5                                        | 50                                  |

2.4.17 The vehicle fulfils the requirements of Annex 13 : yes

2.4.18 Vehicle equipped to tow trailers equipped with anti-lock systems : yes

2.4.19 The vehicle is subject to the requirements of Annex 5 (ADR) : yes

2.4.20 Vehicle is equipped with a control line(s) according to : paragraphs ~~5.1.3.1.1.~~ / 5.1.3.1.2. / ~~5.1.3.1.3.~~

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|                  |                                                      |
|------------------|------------------------------------------------------|
| Test Report No.: | IT18/1369 - 00                                       |
| UNECE R13-11     |                                                      |
| Typ:             | ST 2Y3C 13R                                          |
| Hersteller:      | S.T. System Truck S.p.A.<br>IT-46048 Roverbella (MN) |

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- 2.4.21 The vehicle is equipped with a vehicle stability function : yes  
Directional control and roll-over control in combination with brake activation and engine power output control
- vehicle stability function according to Annex 21: : fulfilled  
Test method: demonstration by dynamic manoeuvres and comparison of the vehicle behaviour with enabled and disabled vehicle stability function
- Vehicle stability function is optional equipment : no
- Vehicle stability function includes directional control : yes
- Vehicle stability function includes roll-over control : yes

## Series of tests B

### 2.4.1 Test type 0:

| Unladen<br>Engine disconnected | Test speed<br>[km/h] | Braking<br>performance<br>[m/s <sup>2</sup> ] | Force applied to<br>the control<br>[N] |
|--------------------------------|----------------------|-----------------------------------------------|----------------------------------------|
| Service brake                  | 65                   | 6.2                                           | 270                                    |
| Axle 1                         | 44.6                 | 3.8                                           | 240                                    |
| Axle 2+3+4                     | 45                   | 1.8                                           | 460                                    |
| Service brake<br>(@3bar)       | 44.3                 | 3.9                                           | 170                                    |

No abnormal vibration, vehicle keeps lane

| Laden<br>Engine disconnected | Test speed<br>[km/h] | Braking<br>performance<br>[m/s <sup>2</sup> ] | Force applied to<br>the control<br>[N] |
|------------------------------|----------------------|-----------------------------------------------|----------------------------------------|
| Service brake                | 63.1                 | 5.5                                           | 236                                    |
| Axle 1                       | 40.3                 | 1.8                                           | 240                                    |
| Axle 2+3+4                   | 44.1                 | 3.4                                           | 256                                    |
| Service brake<br>(@3bar)     | 44.7                 | 2.4                                           | 157                                    |

No abnormal vibration, vehicle keeps lane

| Unladen<br>Engine connected | Test speed<br>[km/h] | Braking<br>performance<br>[m/s <sup>2</sup> ] | Force applied to<br>the control<br>[N] |
|-----------------------------|----------------------|-----------------------------------------------|----------------------------------------|
|                             | 27.1                 | 5.9                                           | 230                                    |
|                             | 36.5                 | 5.9                                           | 234                                    |
|                             | 74.5                 | 6.2                                           | 240                                    |

No abnormal vibration, vehicle keeps lane

| Laden<br>Engine connected | Test speed<br>[km/h] | Braking<br>performance<br>[m/s <sup>2</sup> ] | Force applied to<br>the control<br>[N] |
|---------------------------|----------------------|-----------------------------------------------|----------------------------------------|
|                           | 27.3                 | 5.1                                           | 190                                    |
|                           | 34.5                 | 5.1                                           | 180                                    |
|                           | 73.5                 | 5.3                                           | 225                                    |

No abnormal vibration, vehicle keeps lane

#### 2.4.3 Test type I:

Conditions during the heating : duration of a braking cycle: 60s  
 No. of brake cycles: 20  
 Initial speed V1: 60km/h  
 Final speed V2: 30km/h  
 deceleration dm: 3m/s<sup>2</sup>

| Laden                  | Test speed<br>[km/h] | Braking performance<br>[m/s <sup>2</sup> ] | Force applied to the control<br>[N] |
|------------------------|----------------------|--------------------------------------------|-------------------------------------|
| Service brake (heated) | 61.6                 | 5.0                                        | 240                                 |

No abnormal vibration, vehicle keeps lane

#### 2.4.4 Test type II

Equivalent test on track : 1,0 m/s<sup>2</sup>  
 Braking system(s) used : Engine brake integrated with retarder

#### 2.4.5 Test type IIA

Equivalent test on track : 1,0 m/s<sup>2</sup>  
 Braking system(s) used : Engine brake integrated with retarder

#### 2.4.6 Parking brake

Holding force:  
 Uphill gradient (18%) : 6,5t (forward)  
 Downhill gradient (18%) : 6,5t (reverse)

2.4.7 Reaction time : 0,6 ≤ 0,6s

2.4.8 Dimensions of flexible pipes : fulfilled  
 (refer to drawing no. 25.01.20.0024)

2.4.9 Charging time of air reservoirs : fulfilled  
 T1= 1' 05"; T2= 6' 55"; T3=8' 55"  
 (vehicles to which the coupling of a trailer is authorized)

2.4.10 Spring brake according to Annex 8 : fulfilled

2.4.11 Compatibility between tractor and trailer : fulfilled

#### 2.4.12 ABS according to Annex 13

General requirements : fulfilled

2.4.13 ABS - Energy consumption : Braking performance @ 40km/h at the 5<sup>th</sup> full brake with brakes reservoirs isolated: 5.5 m/s<sup>2</sup>

|                                        |                         |                         |                             |
|----------------------------------------|-------------------------|-------------------------|-----------------------------|
| 2.4.14 ABS - Utilization of adhesion : | $k_a$<br>[ $\geq 0,5$ ] | $k_b$<br>[ $\leq 0,3$ ] | $k_a/k_b$<br>[ $\geq 2,0$ ] |
| Laden:                                 | 0.572                   | 0.128                   | 4.5                         |
| Unladen:                               | 0.568                   | 0.146                   | 3.9                         |

|          |                               |                               |
|----------|-------------------------------|-------------------------------|
|          | Low grip surface              | High grip surface             |
|          | $\epsilon$<br>[ $\geq 0,75$ ] | $\epsilon$<br>[ $\geq 0,75$ ] |
| Laden:   | 0.99                          | 0.97                          |
| Unladen: | 0.98                          | 0.82                          |

2.4.15 ABS - Additional checks : fulfilled

2.4.16 ABS - Residual braking performance in event of failure within the electric control transmission :

|          |                      |                                            |                                     |
|----------|----------------------|--------------------------------------------|-------------------------------------|
|          | Test speed<br>[km/h] | Braking performance<br>[m/s <sup>2</sup> ] | Force applied to the control<br>[N] |
| Laden:   | 44.5                 | 5.2                                        | 120                                 |
| Unladen: | 44.9                 | 6.2                                        | 210                                 |

2.4.17 The vehicle fulfils the requirements of Annex 13 : yes

2.4.18 Vehicle equipped to tow trailers equipped with anti-lock systems : yes

2.4.19 The vehicle is subject to the requirements of Annex 5 (ADR) : yes

2.4.20 Vehicle is equipped with a control line(s) according to : paragraphs ~~5.1.3.1.1.~~ / 5.1.3.1.2. / ~~5.1.3.1.3.~~

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|                  |                                                      |
|------------------|------------------------------------------------------|
| Test Report No.: | IT18/1369 - 00                                       |
| UNECE R13-11     |                                                      |
| Typ:             | ST 2Y3C 13R                                          |
| Hersteller:      | S.T. System Truck S.p.A.<br>IT-46048 Roverbella (MN) |

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- 2.4.21 The vehicle is equipped with a vehicle stability function : yes  
Directional control and soll-over control in combination with brake activation and engine power output control
- vehicle stability function according to Annex 21: : fulfilled  
Thetest method: demonstration by dynamic manoeuvres and comparison of the vehicle behaviour with enables and disabled vehicle stability function
- Vehicle stability function is optional equipment : no
- Vehicle stability function includes directional control : yes
- Vehicle stability function includes roll-over control : yes
- 2.5 Remarks : not applicable

### 3 Enclosures:

1. Further enclosures (including information documents) : Information folder/Information document  
ST\_2Y3C\_13R

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Typ: ST 2Y3C 13R

Hersteller: S.T. System Truck S.p.A.  
IT-46048 Roverbella (MN)



#### 4 Statement of conformity:

The information folder as mentioned under No. 0.5 and the type described therein are - i n c o m p l i a n c e - with the Test Specification mentioned above.

As worst case selection, 2 prototypes have been selected, First one having 24/14" brake chambers on first axles, second one having 30/14" brake chambers on first axles. Both prototypes have minimum wheelbase and tyres with max  $R_{DYN}$ . Prototypes have been equipped with longer pipes in order to simulate the maximum admitted wheelbase during the static tests.

For the present type, the selected test vehicles together with the information documents of remaining variant/version, is representative.

The tests have been carried out, considering the relevant requirements of ISO/IEC 17025:2005.

This report includes pages 1 to 16.  
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#### TEST LABORATORY

Rezzato, 26.07.2018  
aa/ah

No. of practice:



PR-18/0412

A blue ink signature of A. Adami.

A. Adami  
Test engineer



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