



ECE TYPE-APPROVAL CERTIFICATE



Communication concerning:² ~~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 ~~Approval withdrawn~~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*0057*00**

Reason(s) for extension:

N/A

- | | | |
|--------|---|---|
| 1. | Trade name or make of the vehicle: | <i>Daf / System Truck</i> |
| 2. | Vehicle category: | <i>N3</i> |
| 3. | Vehicle type: | <i>ST FAW 13R</i> |
| 4. | Manufacturer's name and address: | <i>S.T. System Truck S.p.A.
Via Paesa, 28
IT-46048 Roverbella (MN)</i> |
| 5. | If applicable name and address of manufacturer's authorised representative: | <i>N/A</i> |
| 6. | Mass of the vehicle: | |
| 6.1. | Maximum mass of the vehicle: | <i>39000 kg</i> |
| 6.2. | Minimum mass of the vehicle: | <i>10930 kg</i> |
| 7. | Distribution of mass on each axle (maximum value): | <i>Axle 1: 9000
Axle 2 10500
Axle 3: 10500
Axle 4: 9000</i> |
| 8. | Make and type of brake linings, discs and drums: | <i>See information folder for details</i> |
| 8.1. | Brake linings | |
| 8.1.1. | Brake linings tested to all relevant prescriptions of Annex 4: | <i>Tested according to Annex 12.</i> |



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8.1.2.	Alternative brake linings tested in Annex 15:	N/A
8.2.	Brake discs and drums	
8.2.1.	Identification code of brake discs covered by the braking system approval:	<i>See information folder for details</i>
8.2.2.	Identification code of brake drums covered by the braking system approval:	<i>See information folder for details</i>
9.	In the case of a power driven vehicle	
9.1.	Engine type:	<i>See information folder for details</i>
9.2.	Number and ratios of gears:	<i>See information folder for details</i>
9.3.	Final drive ratio:	3.09
9.4.	If applicable, maximum mass of trailer which may be coupled:	
9.4.1.	Full trailer:	<i>See information folder for details</i>
9.4.2.	Semi-trailer:	N/A
9.4.3.	Centre-axle trailer (indicate also the maximum ratio of the coupling overhang to the wheelbase):	<i>See information folder for details</i>
9.4.4.	Unbraked trailer:	N/A
9.4.5.	Maximum mass of the combination:	<i>See information folder for details</i>
10.	Tyre dimensions:	<i>See information folder for details</i>
10.1.	Temporary-use spare wheel/tyre dimensions:	<i>See information folder for details</i>
10.2.	Vehicle meets the technical requirements of Annex 3 to Regulation No. 64 (yes/no):	No.
11.	Number and arrangement of axles:	<i>1st steering / non powered axle 2nd fixed / powered axle 3rd fixed / powered axle 4th steering / non powered axle (liftable)</i>
12.	Brief description of braking equipment:	<i>See information folder for details</i>
13.	Mass of vehicle when tested:	<i>Mass in running order and Technically Permissible maximum laden mass</i>



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14.	Results of the tests and vehicle characteristics:	<i>See test report IT18/1467-00 and manufacturer's information document for details.</i>
14.6.	Braking system(s) used during the Type-II/IIA test:	<i>Engine brake integrated with retarder</i>
14.7.	Reaction time and dimensions of flexible pipes:	<i>See information folder for details</i>
14.7.1.	Reaction time at the brake actuator:	<i>N/A</i>
14.7.2.	Reaction time at the control line coupling head:	<i>N/A</i>
14.7.3.	Flexible pipes of tractors for semi-trailers: Reservoir – modulator: internal diameter (mm): Modulator – brake chambers internal diameter (mm):	<i>N/A</i>
14.8.	Information required under paragraph 7.3. of annex 10 to this Regulation:	<i>N/A</i>
14.9.	Vehicle is /is not equipped to tow a trailer with electrical braking systems:	<i>Is not</i>
14.10.	Vehicle is/is not equipped with an anti-lock system:	<i>Is</i>
14.10.1.	Category of anti-lock system:	<i>Category 1/2/3</i> <i>Category A/B</i>
14.10.2.	The vehicle fulfils the requirements of annex 13:	<i>Yes</i>
14.10.3.	Vehicle is/is not equipped to tow trailers equipped with anti-lock systems:	<i>Is</i>
14.10.4.	Where an annex 19 test report has been utilised, the test report number(s) shall be stated:	<i>N/A</i>
14.11.	The vehicle is subject to the requirements of annex 5 (ADR):	<i>Yes</i>
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:	<i>See information folder for details</i>
14.11.2.	The power driven vehicle is fitted with a control device for the endurance braking system on the trailer:	<i>N/A</i>
14.11.3.	In the case of trailers, the vehicle is equipped with an endurance braking system:	<i>No</i>



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

Approval No: **E24*13R11/14*0057*00**

17. Vehicle submitted for approval on: **10.08.2018**
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: **10.08.2018**
20. Number of report issued by that service: **IT18/1467-00**
21. Approval granted/~~refused~~/~~extended~~/~~withdrawn~~: **Granted**
22. Position of approval mark on the vehicle: **On manufacturer's plate**
23. Place: **Dublin.**
24. Date: **11th September, 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.*

Approval No: **E24*13R11/14*0057*00**

Index to the Information Package

Date of issue:	<i>11th September, 2018</i>
Date of latest amendment:	<i>N/A</i>
Reason for extension/revision:	<i>N/A</i>
1. Additional conditions, and advisory notes on legal alternatives.	
2. Test report(s)	
- numbers(s):	<i>IT18/1467-00</i>
- date of issue:	<i>10.08.2018</i>
- date of latest amendment:	<i>N/A</i>
3. Information document	
- number(s):	<i>ST_FAW_13R</i>
- date of issue:	<i>16.07.2018</i>
- date of latest amendment:	<i>N/A</i>
Documentation:	<i>45 pages</i>



Approval No: E24*13R11/14*0057*00

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.

Test Report No.: IT18/1467 - 00
UNECE R13-11

Typ: ST FAW 13R

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



Test Report

No. IT18/1467 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

☒	Granting of a type approval No. E24*13R11/14*0057*00 (Allocated in advance)
☐	Extension to type approval no.
☐	Correction to type approval no.
☐	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

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Test Report No.:	IT18/1467 - 00
UNECE R13-11	
Typ:	ST FAW 13R
Hersteller:	S.T. System Truck S.p.A. IT-46048 Roverbella (MN)



0 General

- | | | |
|-------|--|---|
| 0.1 | Make | : Daf / System Truck |
| 0.2 | Type | : ST FAW 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: | : Daf Trucks NV
NL-5643 TW Eindhoven - Hugo v.d. Goeslaan 1 |
| 0.5 | Information folder
Information document | : |
| | No | : ST_FAW_13R |
| | Date of issue | : 16.07.2018 |
| | Date of last change | : not applicable |
| 0.6 | List of modifications | : not applicable (basic test report) |

Test Report No.: IT18/1467 - 00
UNECE R13-11

Typ: ST FAW 13R

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



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

- 1.1 Description: : representative vehicle
- 1.1.1 Type: : ST FAW 13R
Variant: : ST M4TN3 ATZD6ZZ
Version: : 330ZTAA330TMZZZZZKA3355H2 B
VIN (Stage 1): : XLRATM4300G217573
- 1.1.2 Gear box type: : ZF 12TX 2620 TD (Manual)
No. of gears: : 12
Final drive ratio : 3,09
- 1.1.3 Number and arrangement of axles: : 4; 1st steering / non powered axle
2nd fixed / powered axle
3rd fixed / powered axle
4th steering / non powered axle
- 1.1.4 Wheelbase(s): : 1-2: 3200 mm
2-3: 1400 mm
3-4: 1450 mm
- 1.1.5 Tyres
1st axle: : 385/65 R22,5 160/-J (single)
2nd axle: : 315/80 R22,5 -/150L (twin)
3rd axle: : 315/80 R22,5 -/150L (twin)
4th axle: : 385/65 R22,5 160/-J (single)
- 1.1.6 Kind of suspension: : 1st longitudinal parabolic leafspring
2nd pneumatic
3rd pneumatic
4th pneumatic
- 1.1.7 Engine
Manufacturer: : DAF
Type: : MX-13 355 H2

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.
Brake lining:	: 1 st axle: Make: Textar - Type: T7400 2 nd axle: Make: Textar - Type: T7400 3 rd axle: Make: Textar - Type: T7400 4 th axle: Make: Textar - Type: T7400 asbestos free
Wheel brake:	: 1 st axle: brake disk Ø432 mm 2 nd axle: brake disk Ø432 mm 3 rd axle: brake disk Ø432 mm 4 th axle: brake disk Ø430 mm
Brake Chamber:	: 1 st axle: 27/24" 2 nd axle: 27/24" 3 rd axle: 27/24" 4 th axle: 14"
Anti-lock braking system:	: Category 1
Service braking system:	: Foot operated, air brake with mechanical control. Two circuit: 1 st for axles 1, 2 nd for axles 2, 3 and 4.
Secondary braking system:	: 2 nd circuit of the service braking system
Parking braking system:	: Spring brake, manual control, mechanical actuated on axle 1, 2 and 3

1.1.9 Mass of vehicle during test(s)

	unladen	laden
Total:	: 10930 kg	39000 kg
1 st axle:	: 5110 kg	9020 kg
2 nd axle:	: 2380 kg	10520 kg
3 rd axle:	: 2810 kg	10460 kg
4 th axle:	: 630 kg	9000 kg
Height of center of gravity:	: 805 mm	1465 mm

1.1.10 Maximum speed: : 90 km/h

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Typ: ST FAW 13R

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



- 2 Test record
- 2.1 Place of test : IT-Balocco (VC) + IT-Roverbella (MN)
Date of test : series of tests A :
27.07.2018 + 03.08.2018
- 2.2 Parameter of the test area
- Test track : Asphalt & concrete dry, ceramic tiles wet
- Air temperature : series of tests A :
28 °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 Engine disconnected	Test speed [km/h]	Braking performance [m/s ²]	Force applied to the control [N]
Service brake	60	5.8	170
Axle 1	40	4.0	200
Axle 2+3+4	40	2.8	242
Service brake (@3bar)	40	5.3	95

No abnormal vibration, vehicle keeps lane

Laden Engine disconnected	Test speed [km/h]	Braking performance [m/s ²]	Force applied to the control [N]
Service brake	60	5.3	520
Axle 1	40	1.6	510
Axle 2+3+4	40	3.7	413
Service brake (@3bar)	40	2.3	95

No abnormal vibration, vehicle keeps lane

Unladen Engine connected	Test speed [km/h]	Braking performance [m/s ²]	Force applied to the control [N]
	27	6.8	145
	35	7.0	137
	72	7.0	180

No abnormal vibration, vehicle keeps lane

Laden Engine connected	Test speed [km/h]	Braking performance [m/s ²]	Force applied to the control [N]
	27	4.3	395
	35	4.4	380
	72	4.3	490

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/s²

Laden	Test speed [km/h]	Braking performance [m/s ²]	Force applied to the control [N]
Service brake (heated)	60	5.03	520

No abnormal vibration, vehicle keeps lane

2.4.4 Test type II

Equivalent test on track : 1,4 m/s²
 Braking system(s) used : Engine brake integrated with retarder

2.4.5 Test type IIA

Equivalent test on track : 1,4 m/s²
 Braking system(s) used : Engine brake integrated with retarder

2.4.6 Parking brake

Holding force:
 Uphill gradient (18%) : 7,1t (forward)
 Downhill gradient (18%) : 7,1t (reverse)

2.4.7 Reaction time : 0,6 ≤ 0,6s

2.4.8 Dimensions of flexible pipes : fulfilled
 (refer to drawing no. 25.01.05.0056)

2.4.9 Charging time of air reservoirs : fulfilled
 T1= 1' 11"; T2= 2' 53"; T3=6' 35"
 (vehicles to which the coupling of a trailer is not authorized)
 T1= 2' 59"; T2= 5' 49"; T3=9' 28"
 (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 5th full brake with brakes reservoirs isolated: 5.5 m/s²

2.4.14 ABS - Utilization of adhesion :	k_a [$\geq 0,5$]	k_b [$\leq 0,3$]	k_a/k_b [$\geq 2,0$]
Laden:	0.515	0.068	7.4
Unladen:	0.590	0.128	4.6

	Low grip surface	High grip surface
	ϵ [$\geq 0,75$]	ϵ [$\geq 0,75$]
Laden:	0.93	0.99
Unladen:	0.98	0.99

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 [km/h]	Braking performance [m/s ²]	Force applied to the control [N]
Laden:	40	3.57	330
Unladen:	40	4.60	203

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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UNECE R13-11	
Typ:	ST FAW 13R
Hersteller:	S.T. System Truck S.p.A. IT-46048 Roverbella (MN)



2.4.21 The vehicle is equipped with a vehicle stability function : no
(According to point 5.2.1.32. of the regulation as vehicle of category N3 with 4 axles, with a maximum mass exceeding 25t.

vehicle stability function according to Annex 21: : no

Vehicle stability function is optional equipment : no

Vehicle stability function includes directional control : no

Vehicle stability function includes roll-over control : no

2.5 Remarks : not applicable

3 Enclosures:

1. Further enclosures (including information documents) : Information folder/Information document
ST_FAW_13R

Test Report No.: IT18/1467 - 00
UNECE R13-11

Typ: ST FAW 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, 1 prototype have been selected. Prorotype representative of the type has minum wheelbase and has been equipped with tyres with max R_{DYN} . Prototype has been equipped with longer pipes in order to simulate the maximum admitted wheelbase during the static tests.

For the present type, the selected test vehicle 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 10.
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TEST LABORATORY

Rezzato, 10.08.2018
aa/ah

No. of practice:



PR-18/0412

A blue ink signature, appearing to read "A. Adami", written over a light blue circular stamp.

A. Adami
Test engineer



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SCHEDA INFORMATIVA INFORMATION DOCUMENT

N°
Nr ST_FAW_13R
del
of 16.07.2018

INDICE INDEX

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	CHIAVE INTERPRETAZIONE VARIANTI E VERSIONI <i>VARIANTS AND VERSIONS EXPLANATION KEY</i>	All. 0.0
	COMBINAZIONI POSSIBILI <i>PERMISSIBLE COMBINATIONS</i>	All. 0.1
	DISEGNI <i>DRAWINGS</i>	
	disegno complessivo: <i>overall drawing:</i>	WB=3200 mm 55.01.00.0090 del 09.02.2018 WB=3650 mm 55.01.00.0091 of 12.02.2018
	disegno sospensione asse aggiunto sterzante: <i>suspension drawing of added steering axle:</i>	10.01.00.0045 del 06.11.2017 of
	disegno asse aggiunto: <i>added axle drawing:</i>	S08C072474 del 09.02.2016 of
	schema impianto pneumatico: <i>pneumatic layout drawing:</i>	25.01.05.0056 del 09.02.2018 of
	disegno pinza freno asse aggiunto: <i>disca brake added axle drawing:</i>	Z016442 del 30.03.2007 of



SCHEDA INFORMATIVA INFORMATION DOCUMENT

N°
Nr **ST_FAW_13R**
del
of **16.07.2018**

0. DATI GENERALI GENERAL

- 0.1. Marca (denominazione commerciale del costruttore):
Make (trade name of manufacturer): Daf / System Truck
- 0.2. Tipo:
Type: ST FAW 13R
- Varianti:
Variants: vedere allegati n° 0.0. e 0.1.
see annex No. 0.0. and 0.1.
- Versioni:
Versions: vedere allegati n° 0.0. e 0.1.
see annex No. 0.0. and 0.1.
- 0.2.1. Eventuale/i designazione/i commerciale/i:
Commercial name(s) (if available): vedere allegato n° 1
see annex No. 1
- 0.3. Mezzi di identificazione del tipo, se marcati sul veicolo:
Means of identification of type, if marked on the vehicle: numero di omologazione del tipo su targhetta
type approval number on manufacturer's plate
- 0.3.1. Posizione della marcatura:
Location of that marking: codice VIN su longherone destro vicino all'asse anteriore
VIN-Code in RH-side chassis near front axle
- 0.4. Categoria del veicolo:
Category of vehicle: N3
- 0.5. Nome della società e indirizzo del costruttore:
Company name and address of manufacturer: (fase 1) Daf Trucks NV
(stage 1) NL-5643 TW Eindhoven - Hugo v.d. Goeslaan 1
(fase 2) S.T. System Truck S.p.A.
(stage 2) I-46048 Roverbella (MN) - Via Paesa, 28
- 0.8. Denominazione/i e indirizzo/i dello/gli stabilimento/i di
montaggio:
Name(s) and address(es) of assembly plant(s): (fase 1) Daf Trucks NV
(stage 1) NL-5643 TW Eindhoven - Hugo v.d. Goeslaan 1
oppure Leyland Trucks Ltd
or UK-PR26 6LZ Preston Lancashire - Croston Road Leyland
(fase 2) S.T. System Truck S.p.A.
(stage 2) I-46048 Roverbella (MN) - Via Paesa, 28

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

- 1.1. Fotografie e/o disegni di un veicolo rappresentativo:
Photographs and/or drawings of a representative vehicle: vedere allegato n° 1
see annex No. 1

Variante - versione: ST M4TN3 - AT???? - ????????????????????? ?
Variant - version:



Fotografia ¾ anteriore
Photo ¾ front



Fotografia ¾ posteriore
Photo ¾ rear



SCHEDA INFORMATIVA INFORMATION DOCUMENT

N°
Nr **ST_FAW_13R**
del
of **16.07.2018**

Variante - versione: ST H4TN3 - AT???? - ?????????????????????? ?
Variant - version:



Fotografia ¾ anteriore
Photo ¾ front



Fotografia ¾ posteriore
Photo ¾ rear

1.3.	Numero di assi e di ruote: <i>Number of axles and wheels:</i>	4	assi, <i>axles,</i>	8 ruote <i>wheels</i>
1.3.1.	Numero e posizione degli assi a ruote gemellate: <i>Number and position of axles with twin wheels:</i>	2	assi, <i>axles,</i>	2° e 3° asse <i>2nd and 3rd axle</i>
1.3.2.	Numero e posizione degli assi sterzanti: <i>Number and position of steered axles:</i>	2	assi, <i>axles,</i>	1° e 4° asse <i>1st and 4th axle</i>
1.3.3.	Assi motore (numero, posizione, interconnessione): <i>Powered axles (number, position, interconnection):</i>	2	assi, <i>axles,</i>	2° e 3° asse <i>2nd and 3rd axle</i>
1.8.	Lato di guida: <i>Hand of drive:</i>	a sinistra <i>left</i>	oppure <i>or</i>	a destra <i>right</i>
1.8.1.	Il veicolo è predisposto per la circolazione stradale: <i>Vehicle is equipped to be driven in:</i>	a destra <i>right hand traffic</i>	oppure <i>or</i>	a sinistra <i>left hand traffic</i>
2.	MASSE E DIMENSIONI (in kg e mm) MASSES AND DIMENSIONS (in kg and mm) (eventualmente con riferimento ai disegni) (refer to drawing where applicable)			
2.1.	Interasse o interassi (a pieno carico) <i>Wheelbase(s) (fully loaded)</i>			
2.1.1.	Veicoli a 2 assi: <i>Two axle vehicles:</i>	non ricorre <i>not applicable</i>		
2.1.2.	Veicoli a 3 o più assi: <i>Vehicles with three or more axles:</i>	ricorre <i>applicable</i>		
2.1.2.1.	Distanza tra assi consecutivi, da quello in posizione più avanzata a quello in posizione più arretrata: <i>Axle spacing between consecutive axles going from the foremost to the rearmost axle:</i>	vedere allegato n° <i>see annex No. 2</i>	2	
2.3.	Carreggiata/e e larghezza/e degli assi <i>Axle track(s) and width(s)</i>			
2.3.1.	Carreggiata di ciascun asse sterzante: <i>Track of each steered axle:</i>	1°: 4°:	2095 ÷ 2145 2109	mm mm
2.3.2.	Carreggiata di tutti gli altri assi: <i>Track of all other axles:</i>	2°: 3°:	1820 ÷ 1840 1820 ÷ 1840	mm mm
2.6.	Massa in ordine di marcia <i>Mass in running order</i>			



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a) massima e minima per ogni variante:
a) *maximum and minimum for each variant:*

valori medi: vedere allegato n° 2.1
valori massimi = valori medi + 300 kg
valori minimi = valori medi - 300 kg
medium values: see annex No. 2.1
maximum values = medium values + 300 kg
minimum values = medium values - 300 kg

b) massa di ciascuna versione (deve essere fornita una matrice):
b) *mass of each version (a matrix must be provided):*

valori medi: vedere allegato n° 2.1
valori massimi = valori medi + 300 kg
valori minimi = valori medi - 300 kg
medium values: see annex No. 2.1
maximum values = medium values + 300 kg
minimum values = medium values - 300 kg

2.6.1. Distribuzione di tale massa tra gli assi e, nel caso di un semirimorchio o di un rimorchio ad asse centrale o a timone rigido, massa gravante sul punto di aggancio:
Distribution of this mass among the axles and, in the case of a semi-trailer, a rigid drawbar trailer or a centre-axle trailer, the mass on the coupling:

a) massima e minima per ogni variante:
a) *maximum and minimum for each variant:*

valori medi: vedere allegato n° 2.1
valori massimi = valori medi + 150 kg
valori minimi = valori medi - 150 kg
medium values: see annex No. 2.1
maximum values = medium values + 150 kg
minimum values = medium values - 150 kg

b) massa di ciascuna versione (deve essere fornita una matrice):
b) *mass of each version (a matrix must be provided):*

valori medi: vedere allegato n° 2.1
valori massimi = valori medi + 150 kg
valori minimi = valori medi - 150 kg
medium values: see annex No. 2.1
maximum values = medium values + 150 kg
minimum values = medium values - 150 kg

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:

10930

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 semi-trailer or centre-axle trailer, load on the coupling point:

1°	2° + 3° + 4°
5110	5820

2.8. Massa massima a pieno carico tecnicamente ammissibile dichiarata dal costruttore:
Technically permissible maximum laden mass stated by the manufacturer:

vedere allegati n° 2 e 2.1
see annex No. 2 and 2.1

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 semi-trailer or centre-axle trailer, load on the coupling point:

vedere allegati n° 2.1 e 2.1
see annex No. 2.1 and 2.1

2.9. Carico/massa massima tecnicamente ammissibile su ciascun asse:
Technically permissible maximum mass on each axle:

vedere allegati n° 2 e 2.1
see annex No. 2 and 2.1

2.10. Massa tecnicamente ammissibile su ciascun gruppo di assi:
Technically permissible mass on each group of axles:

vedere allegato n° 2
see annex No. 2



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- 2.11. Massa massima rimorchiabile tecnicamente ammissibile
del veicolo trainante in caso di
*Technically permissible maximum towable mass of the towing
vehicle in case of*
- 2.11.1. Rimorchio a timone:
Drawbar trailer: vedere allegato n° 2
see annex No. 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 No. 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 No. 2
3. **PROPULSORE**
POWER PLANT
- 3.1. Costruttore del motore:
Manufacturer of the engine: DAF Trucks NV
- 3.1.1. Codice motore del costruttore (come apposto sul motore,
o altri mezzi di identificazione):
*Manufacturer's engine code (as marked on the engine or other
means of identification):* vedere allegato n° 3
see annex No. 3
- 3.2. Motore a combustione interna
Internal combustion engine
- 3.2.1.1. Principio di funzionamento:
Working principle: accensione spontanea
compression ignition
- Ciclo:
Cycle: quattro tempi
four stroke
- 3.2.1.2. Numero e disposizione dei cilindri:
Number and arrangement of cylinders: 6 in linea
6 in line
- 3.2.1.3. Cilindrata:
Engine capacity: vedere allegato n° 3
see annex Nr. 3
- 3.2.1.8. Potenza massima netta (kW) a (giri/min) (dichiarata dal
costruttore):
Maximum net power (kW) at min⁻¹ (manufacturer's declared value): vedere allegato n° 3
see annex Nr. 3
- 3.2.1.9. Regime massimo ammesso dichiarato dal costruttore:
Maximum permitted speed as prescribed by the manufacturer: vedere allegato n° 3
see annex No. 3
4. **TRASMISSIONE**
TRANSMISSION
- 4.2. Tipo (meccanica, idraulica, elettrica, ecc.):
Type (mechanical, hydraulic, electric,...): meccanica
mechanical
- 4.6. Rapporti di trasmissione:
Gear ratios: vedere allegato n° 4
see annex No. 4



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

⁽¹⁾ Trasmissione cambio continuo. *Continuously variable transmission.*

- 4.7. Velocità massima di progetto del veicolo:
Maximum vehicle design speed:
- un'etichetta, che menziona la velocità legale impostata dal
limitatore di velocità, è fissata in cabina, indicando 80, 85,
90 km/h
*a label mentioning the set speed of the legal speed limiter is fixed
in the cab, indicating 80, 85, 90 km/h*

5. **ASSI AXLES**

- 5.1. Descrizione di ciascun asse:
Description of each axle:
- 1°: asse anteriore sterzante folle
front steering not drive axle
- 2°: asse motore
drive axle
- 3°: asse motore
drive axle
- 4°: assale sterzante sollevabile aggiunto
steered liftable added axle

- 5.2. Marca:
Make:
- 1°: DAF
2°: DAF
3°: DAF
4°: Tecma

- 5.3. Tipo:
Type:
- 1°: 161 N, 163N, 165 N, 167 N, 183 N, 187 N
2°: SR 1360T
3°: SR 1360T
4°: S08C072474

vedere disegno n° S08C072474
del 09.02.2016
see drawing No. S08C072474 of 09.02.2016

- 5.4. Posizione dello/gli asse/i sollevabile/i:
Position of retractable axle(s):
- 4° asse
4th axle

- 5.5. Posizione dello/gli asse/i scaricabile/i:
Position of loadable axle(s):
- 4° asse
4th axle

6. **ORGANI DI SOSPENSIONE SUSPENSION**

- 6.2. Tipo e modello della sospensione di ciascun asse o ruota:
Type and design of the suspension of each axle or wheel:



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1°: sospensione pneumatica (161 N) o meccanica (163 N, 165 N, 167 N, 183 N, 187 N), ammortizzatori idraulici
air suspension (161 N) or leaf suspension (163 N, 165 N, 167 N, 183 N, 187 N), hydraulic shock absorbers

2°: sospensione pneumatica, ammortizzatori idraulici
air suspension, hydraulic shock absorbers

3°: sospensione pneumatica, ammortizzatori idraulici
air suspension, hydraulic shock absorbers

4°: sospensione pneumatica, ammortizzatori idraulici:
disegno sosp: 10.01.00.0045 del 06.11.2017
layout impianto: 25.01.05.0056 del 09.02.2018
pneumatic suspension, hydraulic shock absorbers
susp. drawing: 10.01.00.0045 of 06.11.2017
layout: 25.01.05.0056 of 09.02.2018

6.6. Pneumatici e ruote
Tyres and wheels

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:

6.6.1.1.2. Asse 2:
Axle 2: vedere allegato n° 5
see annex No. 5

6.6.1.1.3. Asse 3:
Axle 3: vedere allegato n° 5
see annex No. 5

6.6.1.1.4. Asse 4:
Axle 4: vedere allegato n° 5
see annex No. 5

6.6.1.2. Ruota di scorta (se disponibile):
Spare wheel, if any: optional, vedere punto 6.6.1.1.
if any see point 6.6.1.1.

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° 5
see annex No. 5

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.



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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: vedere allegato n° 5
1st axle: see annex No. 5

6.6.3.2. 2° asse: vedere punto 6.6.3.1.
2nd axle: see point 6.6.3.1.

6.6.3.3. 3° asse: vedere punto 6.6.3.1.
3rd axle: see point 6.6.3.1.

6.6.3.4. Asse 4: vedere punto 6.6.3.1.
Axle 4: see point 6.6.3.1.

8. FRENI BRAKES

8.1. Tipo e caratteristiche dei freni, compresi 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 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:

	Dimensione <i>Dimension</i>	Tipo <i>Type</i>	Peso <i>Weight</i>	Superficie <i>Surface</i>
freno a disco:	1°: Ø432 x 45	Knorr SN7...	25 kg	196 cm ²
disc brake:	2°: Ø432 x 45	Knorr SN7...	25 kg	196 cm ²
	3°: Ø432 x 45	Knorr SN7...	25 kg	196 cm ²
	4°: Ø430 x 45	Knorr SN7...	25 kg	196 cm ²
	vedere dis. n°: Z016442	del	30.03.2007	
	see drawing No.:	of		
cilindri freno:	1°: 27/24"			
brake cylinder:	2°: 27/24"			
	3°: 27/24"			
	4°: 14"			

Guarnizioni: 1°, 2°, 3°: Textar T7400, Textar T7070, DAF 4200,
Brake lining: DAF 1800830 oppure/or DAF 1982826
4°: Textar T7400

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:
E4 13R-11 2046 00 del 30.01.2014
aggiornata all'estensione: E4 13R-11 2046 06
del 09.03.2018
*unchanged, respect to stage I vehicle, with approval:
E4 13R-11 2046 00 of 30.01.2014 updated by extension
E4 13R-11 2046 06 of 09.03.2018*

8.2.1. Impianto frenante di servizio:
Service braking system:

layout impianto: 25.01.05.0056 del 09.02.2018
see drawing No. 25.01.05.0056 of 09.02.2018

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



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- 8.2.3. Impianto del freno di stazionamento:
Parking braking system:
- meccanico a molla, agente su: 1°, 2° e 3° asse
trasmissione: pneumatica
e con comando: a mano
by the spring-brake actuator of the: axles 1st, 2nd and 3rd
transmission: pneumatic
and control: hand
- 8.2.4. Eventuali impianti frenanti complementari:
Any additional braking system:
- sistema di frenata di rallentamento
 - freno sullo scarico
 - freno motore
 - rallentatore
 - *endurance braking system*
 - *exhaust brake*
 - *engine brake*
 - *retarder*
- 8.3. Comando e trasmissione degli impianti frenanti del
rimorchio in veicoli destinati al traino di un rimorchio:
*Control and transmission of trailer braking systems in vehicles
designed to tow a trailer:*
- Valvola pneumatica di controllo del rimorchio integrata
all'EBS + controllo elettronico
*EBS-integrated Trailer Control Valve Pneumatic control and
supply + electronic control*
- 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 pneumatic service brakes:
- sì
yes
- 8.5. Impianto frenante antibloccaggio:
Anti-lock braking system:
- sì categoria 1 EBS-3.3 4S/4M
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 elet-
trico 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:
E4 13R-11 2046 00 del 30.01.2014 aggiornata all'esten-
sione: E4 13R-11 2046 06 del 09.03.2018
Veicolo sprovvisto di sistema di controllo della stabilità.
*unchanged, respect to stage I vehicle, with approval:
E4 13R-11 2046 00 of 30.01.2014 updated by extension
E4 13R-11 2046 06 of 09.03.2018
Vehicle unprovided with stability control function.*
- 8.7. Descrizione e/o disegno del sistema di alimentazione di
energia, da indicare anche in caso di impianti frenanti
servoassistiti:
*Description and/or drawing of the energy supply, also to be
specified for power-assisted braking systems:*
- Il compressore forza l'aria verso il SAC
Il SAC (Smart Air-supply Control Unit) è costituito da
un essiccatore d'aria, un regolatore di pressione e una
valvola di sicurezza a quattro circuiti.
Il circuito 1 è il sistema di frenatura di servizio degli assali
posteriori, il circuito 2 per l'assale anteriore.
Entrambi i circuiti contengono il/i serbatoio/i d'aria
*The compressor forces air to the SAC
The SAC (Smart Air-supply Control Unit) is a combination of an
air dryer, pressure regulator and four-circuit safety valve.
Circuit 1 is the service braking system of the rear axles, circuit 2
for the front axle.
Both circuits contain air-reservoir(s)*
- 8.7.1. Per gli impianti frenanti ad aria compressa, pressione di
esercizio p2 nel/i serbatoio/i di pressione:
*In the case of compressed-air braking systems, working pressure
p2 in the pressure reservoir(s):*
- 11 bar
- 8.7.2. Per gli impianti frenanti a depressione, livello iniziale di
energia nel/i serbatoio/i:
*In the case of vacuum braking systems, the initial energy level
in the reservoir(s):*
- non ricorre
not applicable



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Revisione 0 del 16.07.2018
Revision of

x La Ditta


.....
(ing. Paolo MARTINI)

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Position: *Technical Director*



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

Caratteristiche Characteristics	Descrizione Description	Varianti Variants												Versioni Versions											
Nome trasformatore Converter's company name	S.T. System Truck S.p.A.	ST																							
Tipo cabina Cab type	CF		M																						
	XF		H																						
Gamma peso Weight class	Media Medium			4																					
Configurazione assi Axle configuration	Da 6x4 a 8x4, S-D-D-S From 6x4 to 8x4, S-T-T-S				T																				
Categoria veicolo Vehicle category	Trasporto cose > 12000 kg Carriage of goods > 12000 kg					N3																			
Applicazione veicolo Vehicle application	Autotelaio per autoveicolo Rigid						A																		
Configurazione assi Axle configuration	Da 6x4 a 8x4, S-D-D-S From 6x4 to 8x4, S-T-T-S							T																	
Fase di completamento Extent of build	Veicolo incompleto Incomplete vehicle								Z																
Tipo di alimentazione Energy source	Gasolio Diesel									D															
Numero cilindri Number cylinders	6 in linea 6 in line										6														
Fuoristrada Off-Road	Stradale (N3) On-road (N3)											Z													
Uso speciale Special purpose	Non ad uso speciale Not special purpose												Z												
Massa complessiva tecnica fase 1 Stage 1 technical GVW	26000 kg												260												
	27000 kg												270												
	28000 kg												280												
	33000 kg												330												
ADR	con ADR / with ADR													A											
	senza ADR / without ADR													Z											
Configurazione assi Axle configuration	Da 6x4 a 8x4, S-D-D-S From 6x4 to 8x4, S-T-T-S														T										



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CHIAVE INTERPRETAZIONE VARIANTI E VERSIONI VARIANTS AND VERSIONS EXPLANATION KEY

Caratteristiche Characteristics	Descrizione Description	Varianti Variants	Versioni Versions
Massa massima su 1° asse Maximum mass on 1 st axle	9000 kg		A
	8500 kg		B
	8000 kg		C
Massa tecnica (massima) assi 2° e 3° asse Technical (maximum) mass of 2 nd and 3 rd axle	13000+13000 kg (2x10,5 opp. 2x9,5 ton)		A
	12600+12600 kg (2x10,5 opp. 2x9,5 ton)		B
	12300+12300 kg (2x10,5 opp. 2x9,5 ton)		C
	10500+10500 kg (2x10,5 opp. 2x9,5 ton)		J
	9500+9500 kg		M
Massa complessiva tecnica fase 1 Technical GVW stage 1	33000 kg		330
	32600 kg		326
	28000 kg		280
	27000 kg		270
	26000 kg		260
Massa combinazione tecnica Technical GCW	GCW = GVW		A
	GCW = GVW + 3500 kg		B
	32000 kg		C
	38000 kg		D
	40000 kg		E
	44000 kg		G
	50000 kg		J
	54000 kg		K
	58000 kg		M
	60000 kg		N
	61000 kg		P
	63000 kg		Y
	66000 kg		Z
	70000 kg		T
	78000 kg		2



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CHIAVE INTERPRETAZIONE VARIANTI E VERSIONI VARIANTS AND VERSIONS EXPLANATION KEY

Caratteristiche Characteristics	Descrizione Description	Varianti Variants	Versioni Versions																			
Masse e dimensioni Masses & dimensions	M																					
Luci Lighting	Completo / Compliant																					
	Non completo / Not compliant																					
Targa posteriore Rear registration plate	Completo / Compliant																					
	Non completo / Not compliant																					
Antispruzzi Spray suppression	Conforme / Compliant																					
	Non presente / Not compliant																					
Protezione laterale Lateral protection	Conforme / Compliant																					
	Non presente / Not compliant																					
Protezione post. antincastro RUP	Conforme / Compliant																					
	Non presente / Not compliant																					
Disp. attacco Coupling	Disp. di attacco / Mechanical coupling																					
	Non presente / Not compliant																					
Livello sonoro Pass-by noise	80 db(A)																					
	79 dB(A)																					
	75 dB(A)																					
	77 dB(A)																					
Tipo motore - cilindrata Engine type - engine capacity	MX-11 - 10837 cm ³																					
	MX-13 - 12902 cm ³																					
Potenza motore Max engine power	220 kW																					
	251 kW																					
	270 kW																					
	300 kW																					
	315 kW																					
	330 kW																					
	355 kW																					
	390 kW																					
Livello emissioni inquinanti Emission class	Euro VI																					
Massa massima su 4° asse Maximum mass on 4 th axle	8000 kg																					
	9000 kg																					



SCHEDA INFORMATIVA INFORMATION DOCUMENT

All n°

0.1

Annex Nr

del

16.07.2018

of

PARTE II - Possibili combinazioni (varianti / versioni)

PART II - Permissible combinations (variants / versions)

Varianti

Variants

Versioni

Versions

1-2	3	4	5	6-7	8	9	10	11	12	13	14	15-17	18	19	20	21	22-24	25	26	27	28	29	30	31	32	33	34	35-37	38-39	40
ST	M	4	T	N3	A	T	Z	D	6	Z	Z	260	A	T	A	M	260	A	M	L	R	S	P	U	K	Y	1	220	H2	A
													Z			B	M	260	B		Z	Z	Z	Z	Z	Z	9			
																C	M	260	C											
																			D											
																			E											
																			G											
ST	M	4	T	N3	A	T	Z	D	6	Z	Z	260	A	T	A	M	260	A	M	L	R	S	P	U	K	Y	1	250	H2	A
													Z			B	M	260	B		Z	Z	Z	Z	Z	Z	9			
																C	M	260	C											
																			D											
																			E											
																			J											
ST	M	4	T	N3	A	T	Z	D	6	Z	Z	260	A	T	A	M	260	A	M	L	R	S	P	U	K	Y	1	270	H2	A
													Z			B	M	260	B		Z	Z	Z	Z	Z	Z	9			
																C	M	260	C											
																			D											
																			E											
																			K											
ST	M	4	T	N3	A	T	Z	D	6	Z	Z	260	A	T	A	M	260	A	M	L	R	S	P	U	K	Y	1	300	H2	A
													Z			B	M	260	B		Z	Z	Z	Z	Z	Z	9			
																C	M	260	C											
																			D											
																			E											
																			M											
																			N											
ST	M	4	T	N3	A	T	Z	D	6	Z	Z	260	A	T	A	M	260	A	M	L	R	S	P	U	K	Y	1	330	H2	A
													Z			B	M	260	B		Z	Z	Z	Z	Z	Z	9			
																C	M	260	C											
																			D											
																			E											
																			M											
																			N											
																			P											
																			Z											
ST	M	4	T	N3	A	T	Z	D	6	Z	Z	260	A	T	A	M	260	A	M	L	R	S	P	U	K	A	3	315	H2	A
													Z			B	M	260	B		Z	Z	Z	Z	Z	Z	0			
																C	M	260	C											
																			D											
																			E											
																			M											
																			N											
																			P											
																			Y											
ST	M	4	T	N3	A	T	Z	D	6	Z	Z	260	A	T	A	M	260	A	M	L	R	S	P	U	K	A	3	355	H2	A
													Z			B	M	260	B		Z	Z	Z	Z	Z	Z	0			
																C	M	260	C											
																			D											
																			E											
																			M											
																			N											
																			P											
																			T											

Varianti
Variants

1-2	3	4	5	6-7
ST	M	4	T	N3

8	9	10	11	12	13	14
A	T	Z	D	6	Z	Z

Versioni
Versions

15-17	18	19	20	21	22-24	25	26	27	28	29	30	31	32	33	34	35-37	38-39	40
260	A	T	A	M	260	A	M	L	R	S	P	U	K	A	3	390	H2	A

Z

B M 260

B

Z Z Z Z Z Z Z 0

C M 260

C

D

E

M

N

P

T

2

ST	M	4	T	N3
----	---	---	---	----

A	T	Z	D	6	Z	Z
---	---	---	---	---	---	---

270	A	T	A	J	270	A	M	L	R	S	P	U	K	Y	1	220	H2	A
-----	---	---	---	---	-----	---	---	---	---	---	---	---	---	---	---	-----	----	---

Z

B J 270

B

Z Z Z Z Z Z Z 9

C J 270

C

D

E

G

ST	M	4	T	N3
----	---	---	---	----

A	T	Z	D	6	Z	Z
---	---	---	---	---	---	---

270	A	T	A	J	270	A	M	L	R	S	P	U	K	Y	1	250	H2	A
-----	---	---	---	---	-----	---	---	---	---	---	---	---	---	---	---	-----	----	---

Z

B J 270

B

Z Z Z Z Z Z Z 9

C J 270

C

D

E

J

ST	M	4	T	N3
----	---	---	---	----

A	T	Z	D	6	Z	Z
---	---	---	---	---	---	---

270	A	T	A	J	270	A	M	L	R	S	P	U	K	Y	1	270	H2	A
-----	---	---	---	---	-----	---	---	---	---	---	---	---	---	---	---	-----	----	---

Z

B J 270

B

Z Z Z Z Z Z Z 9

C J 270

C

D

E

K

ST	M	4	T	N3
----	---	---	---	----

A	T	Z	D	6	Z	Z
---	---	---	---	---	---	---

270	A	T	A	J	270	A	M	L	R	S	P	U	K	Y	1	300	H2	A
-----	---	---	---	---	-----	---	---	---	---	---	---	---	---	---	---	-----	----	---

Z

B J 270

B

Z Z Z Z Z Z Z 9

C J 270

C

D

E

M

N

ST	M	4	T	N3
----	---	---	---	----

A	T	Z	D	6	Z	Z
---	---	---	---	---	---	---

270	A	T	A	J	270	A	M	L	R	S	P	U	K	Y	1	330	H2	A
-----	---	---	---	---	-----	---	---	---	---	---	---	---	---	---	---	-----	----	---

Z

B J 270

B

Z Z Z Z Z Z Z 9

C J 270

C

D

E

M

N

P

Z

ST	M	4	T	N3
----	---	---	---	----

A	T	Z	D	6	Z	Z
---	---	---	---	---	---	---

270	A	T	A	J	270	A	M	L	R	S	P	U	K	A	3	315	H2	A
-----	---	---	---	---	-----	---	---	---	---	---	---	---	---	---	---	-----	----	---

Z

B J 270

B

Z Z Z Z Z Z Z 0

C J 270

C

D

E

M

N

P

Y

ST	M	4	T	N3
----	---	---	---	----

A	T	Z	D	6	Z	Z
---	---	---	---	---	---	---

270	A	T	A	J	270	A	M	L	R	S	P	U	K	A	3	355	H2	A
-----	---	---	---	---	-----	---	---	---	---	---	---	---	---	---	---	-----	----	---

Z

B J 270

B

Z Z Z Z Z Z Z 0

C J 270

C

D

E

M

N

P

T

Varianti
Variants

1-2	3	4	5	6-7
ST	M	4	T	N3

8	9	10	11	12	13	14
A	T	Z	D	6	Z	Z

Versioni
Versions

15-17	18	19	20	21	22-24	25	26	27	28	29	30	31	32	33	34	35-37	38-39	40
270	A	T	A	J	270	A	M	L	R	S	P	U	K	A	3	390	H2	A
	Z		B	J	270	B		Z	Z	Z	Z	Z	Z	0				B
			C	J	270	C												
						D												
						E												
						M												
						N												
						P												
						T												
						2												

ST	M	4	T	N3
----	---	---	---	----

A	T	Z	D	6	Z	Z
---	---	---	---	---	---	---

280	A	T	A	J	280	A	M	L	R	S	P	U	K	Y	1	220	H2	A
	Z		B	J	280	B		Z	Z	Z	Z	Z	Z	9				B
			C	J	280	C												
						D												
						E												
						G												

ST	M	4	T	N3
----	---	---	---	----

A	T	Z	D	6	Z	Z
---	---	---	---	---	---	---

280	A	T	A	J	280	A	M	L	R	S	P	U	K	Y	1	250	H2	A
	Z		B	J	280	B		Z	Z	Z	Z	Z	Z	9				B
			C	J	280	C												
						D												
						E												
						J												

ST	M	4	T	N3
----	---	---	---	----

A	T	Z	D	6	Z	Z
---	---	---	---	---	---	---

280	A	T	A	J	280	A	M	L	R	S	P	U	K	Y	1	270	H2	A
	Z		B	J	280	B		Z	Z	Z	Z	Z	Z	9				B
			C	J	280	C												
						D												
						E												
						K												

ST	M	4	T	N3
----	---	---	---	----

A	T	Z	D	6	Z	Z
---	---	---	---	---	---	---

280	A	T	A	J	280	A	M	L	R	S	P	U	K	Y	1	300	H2	A
	Z		B	J	280	B		Z	Z	Z	Z	Z	Z	9				B
			C	J	280	C												
						D												
						E												
						M												
						N												

ST	M	4	T	N3
----	---	---	---	----

A	T	Z	D	6	Z	Z
---	---	---	---	---	---	---

280	A	T	A	J	280	A	M	L	R	S	P	U	K	Y	1	330	H2	A
	Z		B	J	280	B		Z	Z	Z	Z	Z	Z	9				B
			C	J	280	C												
						D												
						E												
						M												
						N												
						P												
						Z												

ST	M	4	T	N3
----	---	---	---	----

A	T	Z	D	6	Z	Z
---	---	---	---	---	---	---

280	A	T	A	J	280	A	M	L	R	S	P	U	K	A	3	315	H2	A
	Z		B	J	280	B		Z	Z	Z	Z	Z	Z	0				B
			C	J	280	C												
						D												
						E												
						M												
						N												
						P												
						Y												

ST	M	4	T	N3
----	---	---	---	----

A	T	Z	D	6	Z	Z
---	---	---	---	---	---	---

280	A	T	A	J	280	A	M	L	R	S	P	U	K	A	3	355	H2	A
	Z		B	J	280	B		Z	Z	Z	Z	Z	Z	0				B
			C	J	280	C												
						D												
						E												
						M												
						N												
						P												
						T												

Varianti
Variants

Versioni
Versions

1-2	3	4	5	6-7	8	9	10	11	12	13	14	15-17	18	19	20	21	22-24	25	26	27	28	29	30	31	32	33	34	35-37	38-39	40
ST	M	4	T	N3	A	T	Z	D	6	Z	Z	280	A	T	A	J	280	A	M	L	R	S	P	U	K	A	3	390	H2	A
												Z			B	J	280	B		Z	Z	Z	Z	Z	Z	0				B
															C	J	280	C												
																		D												
																		E												
																		M												
																		N												
																		P												
																		T												
																		2												
ST	M	4	T	N3	A	T	Z	D	6	Z	Z	330	A	T	A	A	330	A	M	L	R	S	P	U	K	Y	1	220	H2	A
												Z			B	A	330	B		Z	Z	Z	Z	Z	Z	9				B
															C	A	330	D												
															A	B	330	E												
															B	B	330	G												
															C	B	330													
															A	C	330													
															B	C	330													
															C	C	326													
ST	M	4	T	N3	A	T	Z	D	6	Z	Z	330	A	T	A	A	330	A	M	L	R	S	P	U	K	Y	1	250	H2	A
												Z			B	A	330	B		Z	Z	Z	Z	Z	Z	9				B
															C	A	330	D												
															A	B	330	E												
															B	B	330	J												
															C	B	330													
															A	C	330													
															B	C	330													
															C	C	326													
ST	M	4	T	N3	A	T	Z	D	6	Z	Z	330	A	T	A	A	330	A	M	L	R	S	P	U	K	Y	1	270	H2	A
												Z			B	A	330	B		Z	Z	Z	Z	Z	Z	9				B
															C	A	330	D												
															A	B	330	E												
															B	B	330	K												
															C	B	330													
															A	C	330													
															B	C	330													
															C	C	326													
ST	M	4	T	N3	A	T	Z	D	6	Z	Z	330	A	T	A	A	330	A	M	L	R	S	P	U	K	Y	1	300	H2	A
												Z			B	A	330	B		Z	Z	Z	Z	Z	Z	9				B
															C	A	330	D												
															A	B	330	E												
															B	B	330	M												
															C	B	330	N												
															A	C	330													
															B	C	330													
															C	C	326													
ST	M	4	T	N3	A	T	Z	D	6	Z	Z	330	A	T	A	A	330	A	M	L	R	S	P	U	K	Y	1	330	H2	A
												Z			B	A	330	B		Z	Z	Z	Z	Z	Z	9				B
															C	A	330	D												
															A	B	330	E												
															B	B	330	M												
															C	B	330	N												
															A	C	330	P												
															B	C	330	Z												
															C	C	326													
ST	M	4	T	N3	A	T	Z	D	6	Z	Z	330	A	T	A	A	330	A	M	L	R	S	P	U	K	A	3	315	H2	A
												Z			B	A	330	B		Z	Z	Z	Z	Z	Z	0				B
															C	A	330	D												
															A	B	330	E												
															B	B	330	M												
															C	B	330	N												
															A	C	330	P												
															B	C	330	Y												
															C	C	326													

Varianti
Variants

Versioni
Versions

1-2	3	4	5	6-7	8	9	10	11	12	13	14	15-17	18	19	20	21	22-24	25	26	27	28	29	30	31	32	33	34	35-37	38-39	40
ST	M	4	T	N3	A	T	Z	D	6	Z	Z	330	A	T	A	A	330	A	M	L	R	S	P	U	K	A	3	355	H2	A
												Z			B	A	330	B		Z	Z	Z	Z	Z	Z	0				B
															C	A	330	D												
															A	B	330	E												
															B	B	330	M												
															C	B	330	N												
															A	C	330	P												
															B	C	330	T												
															C	C	326	V												
ST	M	4	T	N3	A	T	Z	D	6	Z	Z	330	A	T	A	A	330	A	M	L	R	S	P	U	K	A	3	390	H2	A
												Z			B	A	330	B		Z	Z	Z	Z	Z	Z	0				B
															C	A	330	D												
															A	B	330	E												
															B	B	330	M												
															C	B	330	N												
															A	C	330	P												
															B	C	330	T												
															C	C	326	2												
ST	H	4	T	N3	A	T	Z	D	6	Z	Z	330	A	T	A	A	330	L	M	L	R	S	Z	U	K	A	3	315	H2	A
												Z			B	A	330	M		Z	Z	Z		Z	Z	0				B
															C	A	330	N												
															A	B	330	P												
															B	B	330	Y												
															C	B	330													
															A	C	330													
															B	C	330													
															C	C	326													
ST	H	4	T	N3	A	T	Z	D	6	Z	Z	330	A	T	A	A	330	L	M	L	R	S	Z	U	K	A	3	355	H2	A
												Z			B	A	330	M		Z	Z	Z		Z	Z	0				B
															C	A	330	N												
															A	B	330	P												
															B	B	330	Y												
															C	B	330	T												
															A	C	330													
															B	C	330													
															C	C	326													
ST	H	4	T	N3	A	T	Z	D	6	Z	Z	330	A	T	A	A	330	L	M	L	R	S	Z	U	K	A	3	390	H2	A
												Z			B	A	330	M		Z	Z	Z		Z	Z	0				B
															C	A	330	N												
															A	B	330	P												
															B	B	330	Y												
															C	B	330	T												
															A	C	330	2												
															B	C	330													
															C	C	326													
ST	H	4	T	N3	A	T	Z	D	6	Z	Z	280	A	T	A	J	280	L	M	L	R	S	Z	U	K	A	3	315	H2	A
												Z			B	J	280	M		Z	Z	Z		Z	Z	0				B
															C	J	280	N												
																		P												
																		Y												
ST	H	4	T	N3	A	T	Z	D	6	Z	Z	280	A	T	A	J	280	L	M	L	R	S	Z	U	K	A	3	355	H2	A
												Z			B	J	280	M		Z	Z	Z		Z	Z	0				B
															C	J	280	N												
																		P												
																		Y												
																		T												

Varianti					Versioni																																		
Variants					Versions																																		
1-2	3	4	5	6-7	8	9	10	11	12	13	14	15-17	18	19	20	21	22-24	25	26	27	28	29	30	31	32	33	34	35-37	38-39	40									
ST	H	4	T	N3	A	T	Z	D	6	Z	Z	280	A	T	A	J	280	L	M	L	R	S	Z	U	K	A	3	390	H2	A									
													Z			B	J	280	M		Z	Z	Z		Z	Z	0			B									
																C	J	280	N																				
																		P																					
																		Y																					
																		T																					
																		2																					

I caratteri #20, #21 e #22 ÷ 24 delle versioni sono correlati fra loro.
The characters # 20, #21 and #22 ÷ 24 of the versions are related to each other.



SCHEDA INFORMATIVA INFORMATION DOCUMENT

All n° 1
Annex Nr
del 16.07.2018
of

Punto Item	Variante Variant	Versione Version	Descrizione Description
0.2.1.	ST M4TN3	AT?????	????????????????????220H2 ? CF 300 FAW
	ST M4TN3	AT?????	????????????????????250H2 ? CF 340 FAW
	ST M4TN3	AT?????	????????????????????270H2 ? CF 370 FAW
	ST M4TN3	AT?????	????????????????????300H2 ? CF 410 FAW
	ST M4TN3	AT?????	????????????????????330H2 ? CF 450 FAW
	ST M4TN3	AT?????	????????????????????315H2 ? CF 430 FAW
	ST M4TN3	AT?????	????????????????????355H2 ? CF 480 FAW
	ST M4TN3	AT?????	????????????????????390H2 ? CF 530 FAW
	ST H4TN3	AT?????	????????????????????315H2 ? XF 430 FAW
	ST H4TN3	AT?????	????????????????????355H2 ? XF 480 FAW
	ST H4TN3	AT?????	????????????????????390H2 ? XF 530 FAW
1.1.	???????	???????	????????????????????????? ? 55.01.00.0090 del 09.02.2018 WB=3200 mm of
	???????	???????	????????????????????????? ? 55.01.00.0091 del 12.02.2018 WB=3650 mm of



Punto Item	Variante Variant	Versione Version	Descrizione Description			
2.1.2.1.	?????? ?	???????????????????? ?	1° ÷ 2°	2° ÷ 3°	3° ÷ 4°	
	?????? ?	???????????????????? ?	3200 mm	1400 mm	1450 mm	
			3650 mm	1400 mm	1450 mm	
2.8.	??????	?????AM???????????????? A	36000 kg			
	??????	?????BM???????????????? A	35500 kg			
	??????	?????CM???????????????? A	35000 kg			
	??????	?????AJ???????????????? A	36000 kg			
	??????	?????AJ???????????????? B	39000 kg			
	??????	?????BJ???????????????? A	35500 kg			
	??????	?????BJ???????????????? B	38500 kg			
	??????	?????CJ???????????????? A	35000 kg			
	??????	?????CJ???????????????? B	38000 kg			
	??????	?????AA???????????????? A	36000 kg			
	??????	?????AA???????????????? B	39000 kg			
	??????	?????BA???????????????? A	35500 kg			
	??????	?????BA???????????????? B	38500 kg			
	??????	?????CA???????????????? A	35000 kg			
	??????	?????CA???????????????? B	38000 kg			
	??????	?????AB???????????????? A	36000 kg			
	??????	?????AB???????????????? B	39000 kg			
	??????	?????BB???????????????? A	35500 kg			
	??????	?????BB???????????????? B	38500 kg			
	??????	?????CB???????????????? A	35000 kg			
	??????	?????CB???????????????? B	38000 kg			
	??????	?????AC???????????????? A	36000 kg			
	??????	?????AC???????????????? B	39000 kg			
	??????	?????BC???????????????? A	35500 kg			
	??????	?????BC???????????????? B	38500 kg			
	??????	?????CC???????????????? A	35000 kg			
	??????	?????CC???????????????? B	38000 kg			
2.9.	??????	?????AM???????????????? A	m ₁	m ₂	m ₃	m ₄
	??????	?????BM???????????????? A	9000	9500	9500	8000 kg
	??????	?????CM???????????????? A	8500	9500	9500	8000 kg
	??????	?????AJ???????????????? A	8000	9500	9500	8000 kg
	??????	?????AJ???????????????? B	9000	9500	9500	8000 kg
	??????	?????AJ???????????????? B	9000	10500	10500	9000 kg
	??????	?????BJ???????????????? A	8500	9500	9500	8000 kg
	??????	?????BJ???????????????? B	8500	10500	10500	9000 kg
	??????	?????CJ???????????????? A	8000	9500	9500	8000 kg
	??????	?????CJ???????????????? B	8000	10500	10500	9000 kg
	??????	?????AA???????????????? A	9000	9500	9500	8000 kg
	??????	?????AA???????????????? B	9000	10500	10500	9000 kg
	??????	?????BA???????????????? A	8500	9500	9500	8000 kg
	??????	?????BA???????????????? B	8500	10500	10500	9000 kg
	??????	?????CA???????????????? A	8000	9500	9500	8000 kg
	??????	?????CA???????????????? B	8000	10500	10500	9000 kg
	??????	?????AB???????????????? A	9000	9500	9500	8000 kg
	??????	?????AB???????????????? B	9000	10500	10500	9000 kg
	??????	?????BB???????????????? A	8500	9500	9500	8000 kg
	??????	?????BB???????????????? B	8500	10500	10500	9000 kg
	??????	?????CB???????????????? A	8000	9500	9500	8000 kg
	??????	?????CB???????????????? B	8000	10500	10500	9000 kg
	??????	?????AC???????????????? A	9000	9500	9500	8000 kg
	??????	?????AC???????????????? B	9000	10500	10500	9000 kg
	??????	?????BC???????????????? A	8500	9500	9500	8000 kg
	??????	?????BC???????????????? B	8500	10500	10500	9000 kg
	??????	?????CC???????????????? A	8000	9500	9500	8000 kg
	??????	?????CC???????????????? B	8000	10500	10500	9000 kg



Punto Item	Variante Variant	Versione Version	Descrizione Description
			μ_1 (m ₂ +m ₃ +m ₄)
2.10.	??????	????AM???????????????? A	27000 kg
	??????	????BM???????????????? A	27000 kg
	??????	????CM???????????????? A	27000 kg
	??????	????AJ???????????????? A	27000 kg
	??????	????AJ???????????????? B	30000 kg
	??????	????BJ???????????????? A	27000 kg
	??????	????BJ???????????????? B	30000 kg
	??????	????CJ???????????????? A	27000 kg
	??????	????CJ???????????????? B	30000 kg
	??????	????AA???????????????? A	27000 kg
	??????	????AA???????????????? B	30000 kg
	??????	????BA???????????????? A	27000 kg
	??????	????BA???????????????? B	30000 kg
	??????	????CA???????????????? A	27000 kg
	??????	????CA???????????????? B	30000 kg
	??????	????AB???????????????? A	27000 kg
	??????	????AB???????????????? B	30000 kg
	??????	????BB???????????????? A	27000 kg
	??????	????BB???????????????? B	30000 kg
	??????	????CB???????????????? A	27000 kg
	??????	????CB???????????????? B	30000 kg
	??????	????AC???????????????? A	27000 kg
	??????	????AC???????????????? B	30000 kg
	??????	????BC???????????????? A	27000 kg
	??????	????BC???????????????? B	30000 kg
	??????	????CC???????????????? A	27000 kg
	??????	????CC???????????????? B	30000 kg
2.11.1.	?????? A??????	????????????????????220?? ?	35400 kg
	?????? A??????	????????????????????250?? ?	41400 kg
	?????? A??????	????????????????????270?? ?	45400 kg
	?????? A??????	????????????????????300?? ?	51400 kg
	?????? A??????	????????????????????330?? ?	57400 kg
	?????? A??????	????????????????????315?? ?	54400 kg
	?????? A??????	????????????????????355?? ?	62400 kg
	?????? A??????	????????????????????390?? ?	69400 kg
2.11.3.	?????? A??????	????????????????????220?? ?	35400 kg
	?????? A??????	????????????????????250?? ?	41400 kg
	?????? A??????	????????????????????270?? ?	45400 kg
	?????? A??????	????????????????????300?? ?	51400 kg
	?????? A??????	????????????????????330?? ?	57400 kg
	?????? A??????	????????????????????315?? ?	54400 kg
	?????? A??????	????????????????????355?? ?	62400 kg
	?????? A??????	????????????????????390?? ?	69400 kg
2.11.4.	?????? A??????	????????????????????220?? ?	44000 kg
	?????? A??????	????????????????????250?? ?	50200 kg
	?????? A??????	????????????????????270?? ?	54000 kg
	?????? A??????	????????????????????300?? ?	60000 kg
	?????? A??????	????????????????????330?? ?	66000 kg
	?????? A??????	????????????????????315?? ?	63000 kg
	?????? A??????	????????????????????355?? ?	71000 kg
	?????? A??????	????????????????????390?? ?	78000 kg



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Varianti Variants										Versioni Versions										Interassi Wheelbases				Massa media autotelaio Medium mass of the chassis				Medium TOT	Massa limite ammessa su assi Maximum mass on axle				MC	Massa massima su assi Maximum mass on axles										
																				1° ÷ 2° 2.1.2.1.	2° ÷ 3°	3° ÷ 4°	1°	2°	3°	4°	1°		2°	3°	4°	2.8.		1	2	3	4							
ST	M	4	T	N3	?	?	?	?	?	?	???	?	?	A	M	???	?	?	?	?	?	?	?	?	???	??	A	3200	1400	1450	5425	1997	1997	1681	11100	9000	9500	9500	8000	36000	9000	9461	9461	8079
ST	M	4	T	N3	?	?	?	?	?	?	???	?	?	A	M	???	?	?	?	?	?	?	?	?	???	??	A	3650	1400	1450	5500	2006	2006	1689	11200	9000	9500	9500	8000	36000	9000	9461	9461	8079
ST	M	4	T	N3	?	?	?	?	?	?	???	?	?	B	M	???	?	?	?	?	?	?	?	?	???	??	A	3200	1400	1450	5425	1979	1979	1667	11050	8500	9500	9500	8000	35500	8500	9460	9460	8079
ST	M	4	T	N3	?	?	?	?	?	?	???	?	?	B	M	???	?	?	?	?	?	?	?	?	???	??	A	3650	1400	1450	5500	2006	2006	1689	11200	8500	9500	9500	8000	35500	8500	9461	9461	8079
ST	M	4	T	N3	?	?	?	?	?	?	???	?	?	C	M	???	?	?	?	?	?	?	?	?	???	??	A	3200	1400	1450	5425	1979	1979	1667	11050	8000	9500	9500	8000	35000	8000	9460	9460	8079
ST	M	4	T	N3	?	?	?	?	?	?	???	?	?	C	M	???	?	?	?	?	?	?	?	?	???	??	A	3650	1400	1450	5500	2006	2006	1689	11200	8000	9500	9500	8000	35000	8000	9461	9461	8079
ST	M	4	T	N3	?	?	?	?	?	?	???	?	?	A	?	???	?	?	?	?	?	?	?	?	???	??	A	3200	1400	1450	5425	1979	1979	1667	11050	9000	9500	9500	8000	36000	9000	9460	9460	8079
ST	M	4	T	N3	?	?	?	?	?	?	???	?	?	A	?	???	?	?	?	?	?	?	?	?	???	??	A	3650	1400	1450	5500	2006	2006	1689	11200	9000	9500	9500	8000	36000	9000	9461	9461	8079
ST	M	4	T	N3	?	?	?	?	?	?	???	?	?	A	?	???	?	?	?	?	?	?	?	?	???	??	B	3200	1400	1450	5425	1969	1969	1688	11050	9000	10500	10500	9000	39000	9000	10500	10500	9000
ST	M	4	T	N3	?	?	?	?	?	?	???	?	?	A	?	???	?	?	?	?	?	?	?	?	???	??	B	3650	1400	1450	5500	1995	1995	1710	11200	9000	10500	10500	9000	39000	9000	10500	10500	9000
ST	M	4	T	N3	?	?	?	?	?	?	???	?	?	B	?	???	?	?	?	?	?	?	?	?	???	??	A	3200	1400	1450	5425	1979	1979	1667	11050	8500	9500	9500	8000	35500	8500	9460	9460	8079
ST	M	4	T	N3	?	?	?	?	?	?	???	?	?	B	?	???	?	?	?	?	?	?	?	?	???	??	A	3650	1400	1450	5500	2006	2006	1689	11200	8500	9500	9500	8000	35500	8500	9461	9461	8079
ST	M	4	T	N3	?	?	?	?	?	?	???	?	?	B	?	???	?	?	?	?	?	?	?	?	???	??	B	3200	1400	1450	5425	1969	1969	1688	11050	8500	10500	10500	9000	38500	8500	10500	10500	9000
ST	M	4	T	N3	?	?	?	?	?	?	???	?	?	B	?	???	?	?	?	?	?	?	?	?	???	??	B	3650	1400	1450	5500	1995	1995	1710	11200	8500	10500	10500	9000	38500	8500	10500	10500	9000
ST	M	4	T	N3	?	?	?	?	?	?	???	?	?	C	?	???	?	?	?	?	?	?	?	?	???	??	A	3200	1400	1450	5425	1979	1979	1667	11050	8000	9500	9500	8000	35000	8000	9460	9460	8079
ST	M	4	T	N3	?	?	?	?	?	?	???	?	?	C	?	???	?	?	?	?	?	?	?	?	???	??	A	3650	1400	1450	5500	2006	2006	1689	11200	8000	9500	9500	8000	35000	8000	9461	9461	8079
ST	M	4	T	N3	?	?	?	?	?	?	???	?	?	C	?	???	?	?	?	?	?	?	?	?	???	??	B	3200	1400	1450	5425	1969	1969	1688	11050	8000	10500	10500	9000	38000	8000	10500	10500	9000
ST	M	4	T	N3	?	?	?	?	?	?	???	?	?	C	?	???	?	?	?	?	?	?	?	?	???	??	B	3650	1400	1450	5500	1995	1995	1710	11200	8000	10500	10500	9000	38000	8000	10500	10500	9000
ST	H	4	T	N3	?	?	?	?	?	?	???	?	?	A	?	???	?	?	?	?	?	?	?	?	???	??	A	3200	1400	1450	5425	1997	1997	1681	11100	9000	9500	9500	8000	36000	9000	9461	9461	8079
ST	H	4	T	N3	?	?	?	?	?	?	???	?	?	A	?	???	?	?	?	?	?	?	?	?	???	??	A	3650	1400	1450	5500	2023	2023	1704	11250	9000	9500	9500	8000	36000	9000	9461	9461	8079
ST	H	4	T	N3	?	?	?	?	?	?	???	?	?	A	?	???	?	?	?	?	?	?	?	?	???	??	B	3200	1400	1450	5425	1986	1986	1703	11100	9000	10500	10500	9000	39000	9000	10500	10500	9000
ST	H	4	T	N3	?	?	?	?	?	?	???	?	?	A	?	???	?	?	?	?	?	?	?	?	???	??	B	3650	1400	1450	5500	2013	2013	1725	11250	9000	10500	10500	9000	39000	9000	10500	10500	9000
ST	H	4	T	N3	?	?	?	?	?	?	???	?	?	B	?	???	?	?	?	?	?	?	?	?	???	??	A	3200	1400	1450	5425	1997	1997	1681	11100	8500	9500	9500	8000	35500	8500	9461	9461	8079
ST	H	4	T	N3	?	?	?	?	?	?	???	?	?	B	?	???	?	?	?	?	?	?	?	?	???	??	A	3650	1400	1450	5500	2023	2023	1704	11250	8500	9500	9500	8000	35500	8500	9461	9461	8079
ST	H	4	T	N3	?	?	?	?	?	?	???	?	?	B	?	???	?	?	?	?	?	?	?	?	???	??	B	3200	1400	1450	5425	1986	1986	1703	11100	8500	10500	10500	9000	38500	8500	10500	10500	9000
ST	H	4	T	N3	?	?	?	?	?	?	???	?	?	B	?	???	?	?	?	?	?	?	?	?	???	??	B	3650	1400	1450	5500	2013	2013	1725	11250	8500	10500	10500	9000	38500	8500	10500	10500	9000
ST	H	4	T	N3	?	?	?	?	?	?	???	?	?	C	?	???	?	?	?	?	?	?	?	?	???	??	A	3200	1400	1450	5425	1997	1997	1681	11100	8000	9500	9500	8000	35000	8000	9461	9461	8079
ST	H	4	T	N3	?	?	?	?	?	?	???	?	?	C	?	???	?	?	?	?	?	?	?	?	???	??	A	3650	1400	1450	5500	2023	2023	1704	11250	8000	9500	9500	8000	35000	8000	9461	9461	8079
ST	H	4	T	N3	?	?	?	?	?	?	???	?	?	C	?	???	?	?	?	?	?	?	?	?	???	??	B	3200	1400	1450	5425	1986	1986	1703	11100	8000	10500	10500	9000	38000	8000	10500	10500	9000
ST	H	4	T	N3	?	?	?	?	?	?	???	?	?	C	?	???	?	?	?	?	?	?	?	?	???	??	B	3650	1400	1450	5500	2013	2013	1725	11250	8000	10500	10500	9000	38000	8000	10500	10500	9000



Punto Item	Variante Variant	Versione Version			
3.1.1.	?????? A?????	????????????????????1220?? ?	MX-11 220 H2		
	?????? A?????	????????????????????1250?? ?	MX-11 250 H2		
	?????? A?????	????????????????????1270?? ?	MX-11 270 H2		
	?????? A?????	????????????????????1300?? ?	MX-11 300 H2		
	?????? A?????	????????????????????1330?? ?	MX-11 330 H2		
	?????? A?????	????????????????????3315?? ?	MX-13 315 H2		
	?????? A?????	????????????????????3355?? ?	MX-13 355 H2		
3.2.1.3.	?????? A?????	????????????????????1???? ?	10837	cm ³	
	?????? A?????	????????????????????3???? ?	12902	cm ³	
3.2.1.8.	?????? A?????	????????????????????1220?? ?	220	kW a/at	1675 min ⁻¹
	?????? A?????	????????????????????1250?? ?	251	kW a/at	1675 min ⁻¹
	?????? A?????	????????????????????1270?? ?	270	kW a/at	1600 min ⁻¹
	?????? A?????	????????????????????1300?? ?	300	kW a/at	1600 min ⁻¹
	?????? A?????	????????????????????1330?? ?	330	kW a/at	1600 min ⁻¹
	?????? A?????	????????????????????3315?? ?	315	kW a/at	1600 min ⁻¹
	?????? A?????	????????????????????3355?? ?	355	kW a/at	1600 min ⁻¹
3.2.1.9.	?????? A?????	????????????????????3390?? ?	390	kW a/at	1675 min ⁻¹
	?????? A?????	????????????????????1220?? ?	2200	min ⁻¹	
	?????? A?????	????????????????????1250?? ?	2200	min ⁻¹	
	?????? A?????	????????????????????1270?? ?	2200	min ⁻¹	
	?????? A?????	????????????????????1300?? ?	2200	min ⁻¹	
	?????? A?????	????????????????????1330?? ?	2200	min ⁻¹	
	?????? A?????	????????????????????3315?? ?	2200	min ⁻¹	
	?????? A?????	????????????????????3355?? ?	2200	min ⁻¹	
	?????? A?????	????????????????????3390?? ?	2200	min ⁻¹	



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Punto
Item

Descrizione
Description

Tipo cambio:
Gear box type:

ZF 12TX	ZF 12TX	ZF 16TX	ZF 16TX	ZF 8S	ZF 8S	ZF 9S	ZF 9S	ZF 12S	ZF 16S	ZF 16S	Eaton S8	Allison	Allison	Allison
141? TD	161? TO	164? TD	184? TO	18?? TO	16?? TD	11?? TO	11?? TD	21?? TD	18?? TO	16?? TD	16918B	5MD 3???	6MD 3???	MD 35??
161? TD	181? TO	184? TD	204? TO	22?? TO		13?? TO		23?? TD	22?? TO	19?? TD	18918B			
181? TD	201? TO	204? TD	224? TO					25?? TD	25?? TO	20?? TD	20918B			
201? TD	221? TO	224? TD	244? TO					28?? TD	27?? TO	22?? TD	22918B			
221? TD	241? TO	264? TD	264? TO							23?? TD				
242? TD	261? TO	284? TD	284? TO											
262? TD	282? TO		304? TO											
282? TD	302? TO		324? TO											
	342? TO		344? TO											

4.6.

Rapporti cambio:
Gear box ratio:

1	16,69	12,92	17,94	14,68	11,54	13,80	9,48	12,73	15,57	13,80	16,41	14,40	3,49	3,49	4,59
2	12,92	9,98	14,68	12,05	8,02	9,49	6,58	8,83	12,21	11,54	13,80	12,29	1,86	1,86	2,25
3	9,93	7,69	12,12	9,92	5,70	6,53	4,68	6,28	9,47	9,49	11,28	8,56	1,41	1,41	1,54
4	7,69	5,94	9,92	8,14	3,84	4,57	3,48	4,64	7,43	7,93	9,49	7,30	1,00	1,00	1,00
5	5,90	4,57	8,28	6,78	2,52	3,02	2,62	3,48	5,82	6,53	7,76	6,05	0,75	0,75	0,75
6	4,57	3,53	6,78	5,56	1,75	2,08	1,89	2,54	4,56	5,46	6,53	5,16		0,65	0,65
7	3,66	2,83	5,58	4,57	1,24	1,43	1,35	1,81	3,41	4,57	5,43	4,38			
8	2,83	2,19	4,57	3,75	0,84	1,00	1,00	1,34	2,68	3,82	4,57	3,47			
9	2,17	1,68	3,93	3,22			0,75	1,00	2,07	3,02	3,59	3,20			
10	1,68	1,30	3,22	2,64					1,63	2,53	3,02	2,73			
11	1,29	1,00	2,65	2,17					1,27	2,08	2,47	2,29			
12	1,00	0,77	2,17	1,78					1,00	1,74	2,08	1,95			
13			1,81	1,49						1,43	1,70	1,62			
14			1,49	1,22						1,20	1,43	1,38			
15			1,22	1,00						1,00	1,19	1,17			
16			1,00	0,82						0,84	1,00	1,00			
												0,86			
												0,73			

R	12,03	12,03	14,14	14,14	12,92	11,03	8,97	12,04	14,57	12,92	15,38	0,70	5,03	5,03	5,00
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Rapporto ponte:
Rear axle ratio:

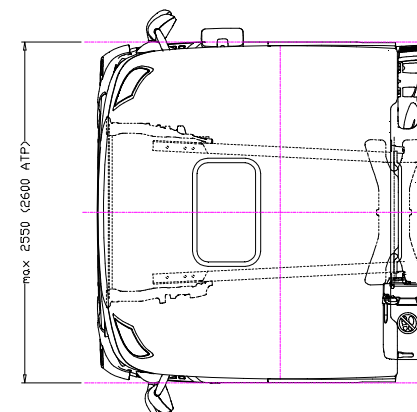
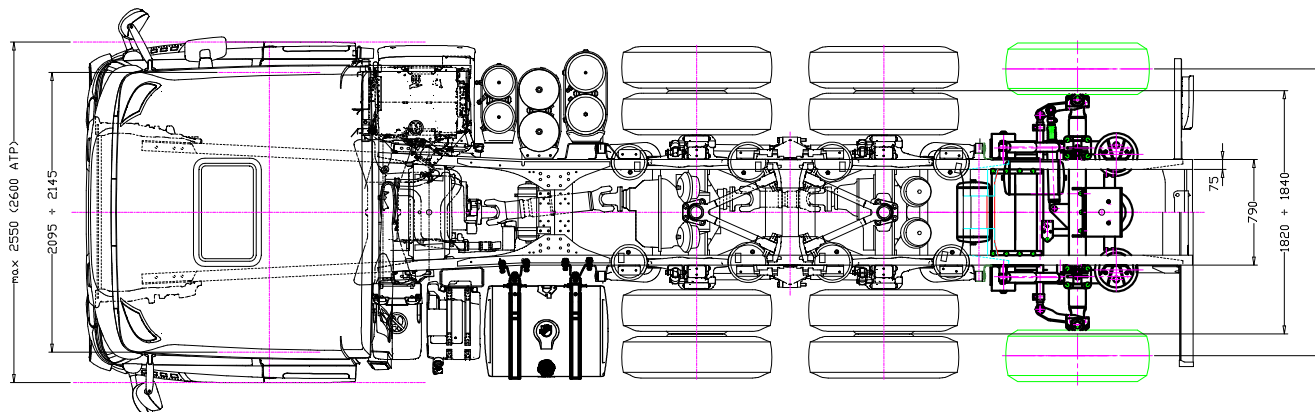
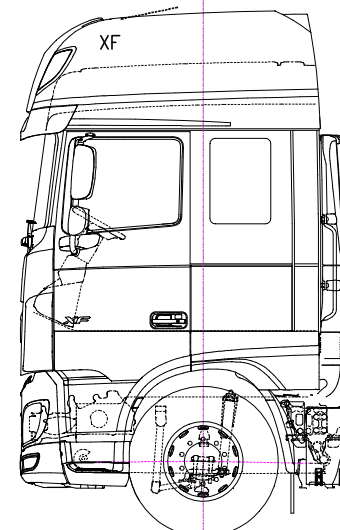
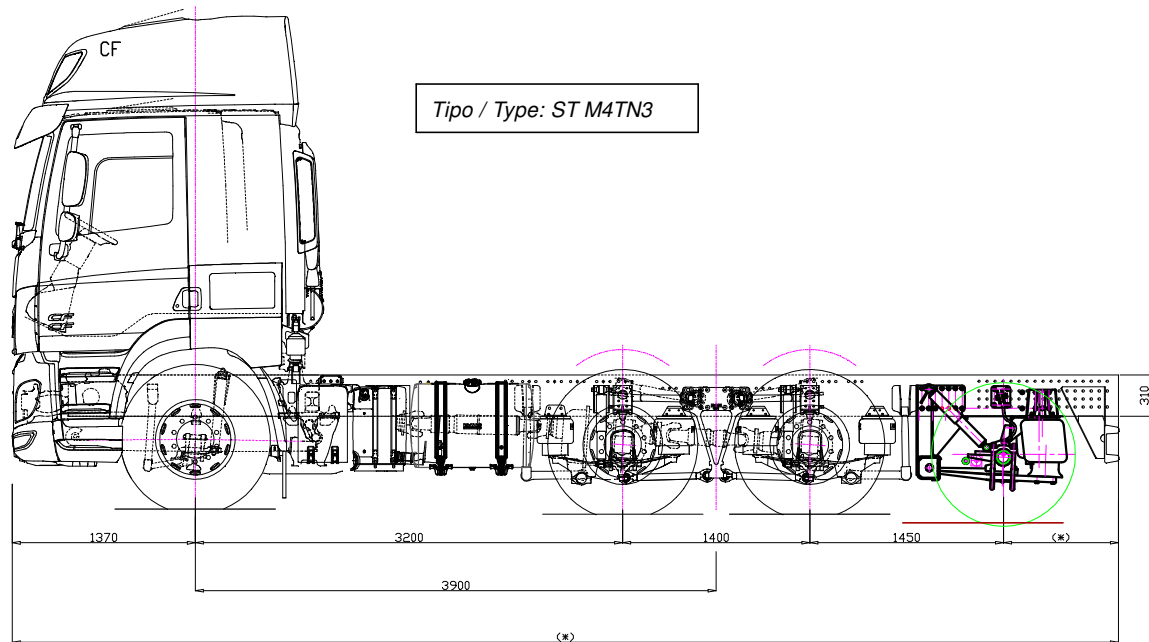
2,43	2,57	2,83	3,09	3,4	3,78	4,13	4,5	5,14	5,67	6,17
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Punto Item	Variant Variant	Versione Version	Descrizione Description						
6.6.1.1.1.	Varianti Variants	Versioni Versions	Dimensione Size	Ind. di carico Load index	Carico Payload	Indice di vel. Speed index	Dim. cerchio Rim size	Offset acciaio Offset steel	Offset alluminio Offset aluminium
	tutte all	?????A???????????????????? ?	385/65 R22,5	160	9000	J	22,5 x 11,75	135	135
	tutte all	?????B???????????????????? ?	385/65 R22,5	158	8500	J	22,5 x 11,75	135	135
	tutte all	?????C???????????????????? ?	315/80 R22,5	156	8000	J	22,5 x 9,00	162-175	153-175
			385/65 R22,5	156	8000	J	22,5 x 11,75	135	135
6.6.1.1.2.	Varianti Variants	Versioni Versions	Dimensione Size	Ind. di carico Load index	Carico Payload	Indice di vel. Speed index	Dim. cerchio Rim size	Offset acciaio Offset steel	Offset alluminio Offset aluminium
	tutte all	???????????????????????????? ?	315/80 R22,5	149	13000	J	22,5 x 9,00	162-175	153-175
6.6.1.1.3.	Varianti Variants	Versioni Versions	Dimensione Size	Ind. di carico Load index	Carico Payload	Indice di vel. Speed index	Dim. cerchio Rim size	Offset acciaio Offset steel	Offset alluminio Offset aluminium
	tutte all	???????????????????????????? ?	315/80 R22,5	149	13000	J	22,5 x 9,00	162-175	153-175
6.6.1.1.4.	Varianti Variants	Versioni Versions	Dimensione Size	Ind. di carico Load index	Carico Payload	Indice di vel. Speed index	Dim. cerchio Rim size	Offset acciaio Offset steel	Offset alluminio Offset aluminium
	tutte all	???????????????????????????? A	315/80 R22,5	156	8000	J	22,5 x 9,00	162-175	153-175
			385/65 R22,5	156	8000	J	22,5 x 11,75	135	135
	tutte all	???????????????????????????? B	385/65 R22,5	160	9000	J	22,5 x 11,75	135	135
6.6.2.1.	Dimensione Size			Raggio di rotolamento Rolling radii		Circonferenza di rotolamento Rolling circumference			
	315/80 R22,5			522 mm		3282 mm			
	385/65 R22,5			517 mm		3248 mm			
6.6.3.1.	Dimensione Size			Pressione Pressure					
	315/80 R22,5			7,00 ÷ 8,50		bar in funzione dal carico dell'asse			
	385/65 R22,5			6,50 ÷ 9,00		bar depending on axle load			



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

Disegnato da P. Martini	Controllato da P. Martini	Data 09.02.2018	Scala 1:40	Quote senza indicazione di tolleranza secondo tabella UNI EN 22768/1, con grado di precisione	Modifiche Formato disegno A3 UNI 936
S.T. System Truck S.p.A. via Paesa, 28 - I 46048 Roverbella (MN) tel. +39 0376696809 - fax +39 03761760180				TITOLO FIGURINO DAF CF XF FAT NEW E6 ONROAD 6x4 P=3900 - 8x4 CON AGGIUNTA ASSE POSTERIORE STERZANTE 9T - SOLLEVABILE - PNEUM. 385/65 R22.5" N° DISEGNO 55.01.00.0090	Codice fornitore Modifica 0 Foglio 1/1

E24*13R11/14*0057*00

Tipo / Type: ST M4TN3

Tipo / Type: ST H4TN3

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

Disegnato da P. Martini	Controllato da P. Martini	Data 12.02.2018	Scala 1:40		Quote senza indicazione di tolleranza secondo tabella UNI EN 22768/1, con grado di precisione	Modifiche Formato disegno A3 UNI 936
					TITOLO FIGURINO DAF CF XF FAT NEW E6 ONROAD 6x4 P=4350 - 8x4 CON AGGIUNTA ASSE POSTERIORE STERZANTE 9T - SOLLEVABILE - PNEUM. 385/65 R22.5"	Codice fornitore
S.T. System Truck S.p.A. via Paesa, 28 - I 46048 Roverbella (MN) tel. +39 0376696809 - fax +39 03761760180					N° DISEGNO 55.01.00.0091	Modifica 0
Property of S.T. System Truck S.p.A. Reproduction not permitted, all rights reserved.					Foglio 1/1	

E24*13R11/14*0057*00

Disegno per omologazione
Drawing for type-approval

1540 da centro cantilever

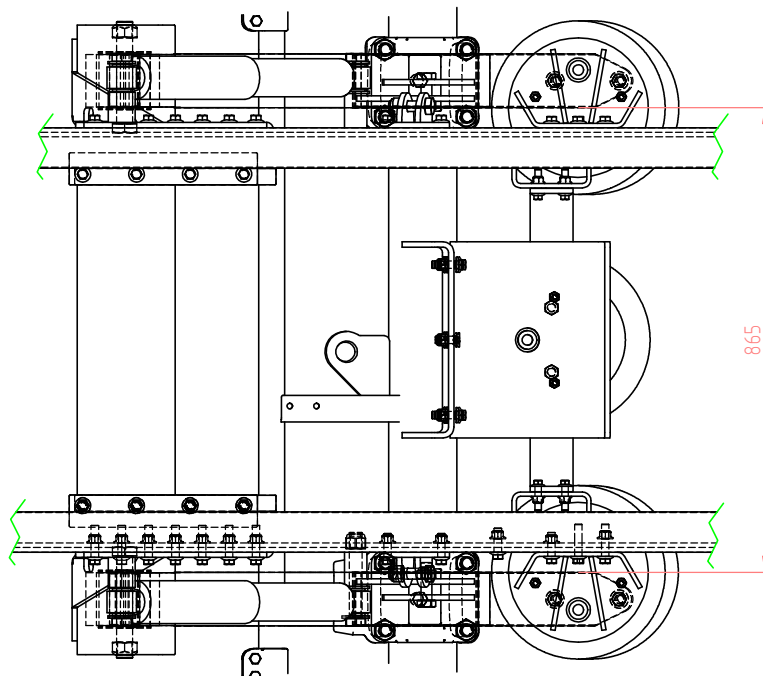
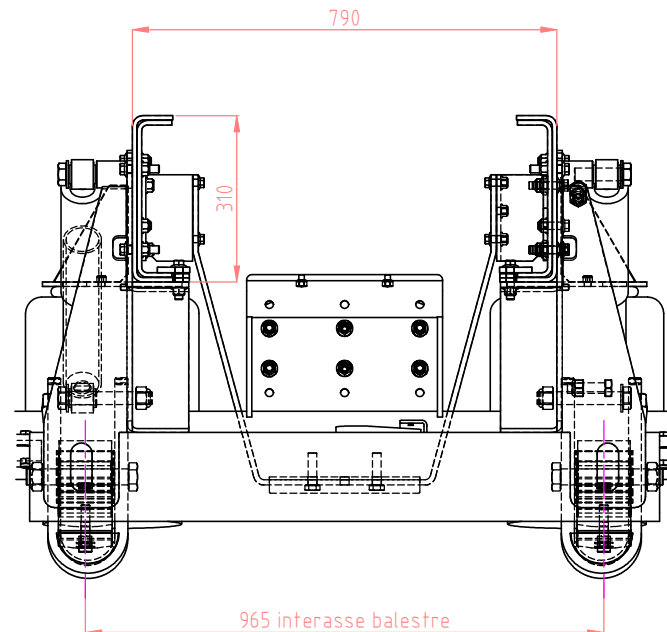
1079 SCS con pne. 385/65R22.5

RR=492 (sotto carico statico)
385/65R22.5

linea di terra a carico

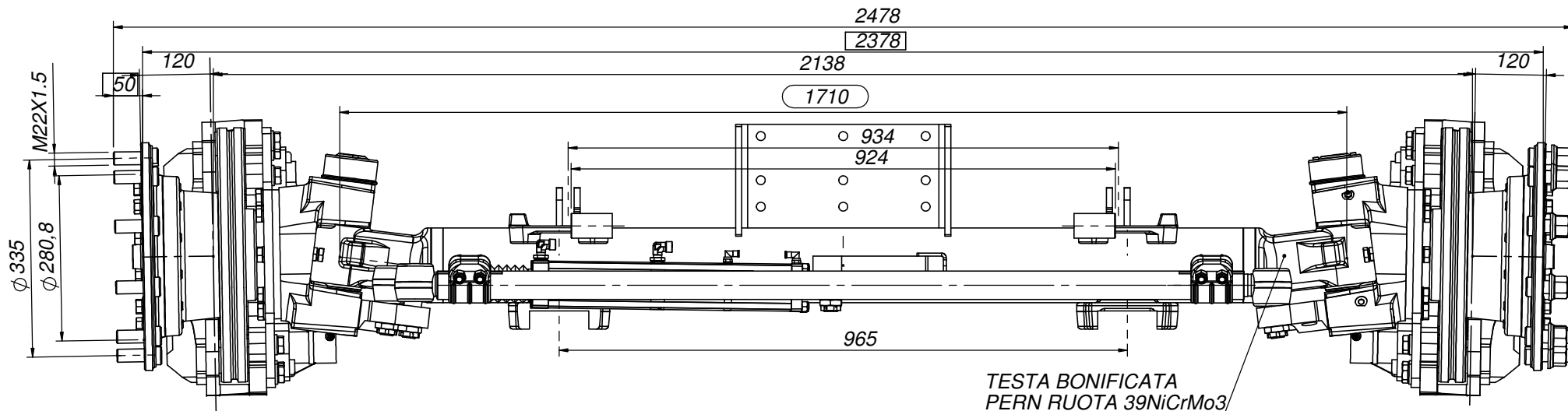
1450 da secondo ponte motore

865

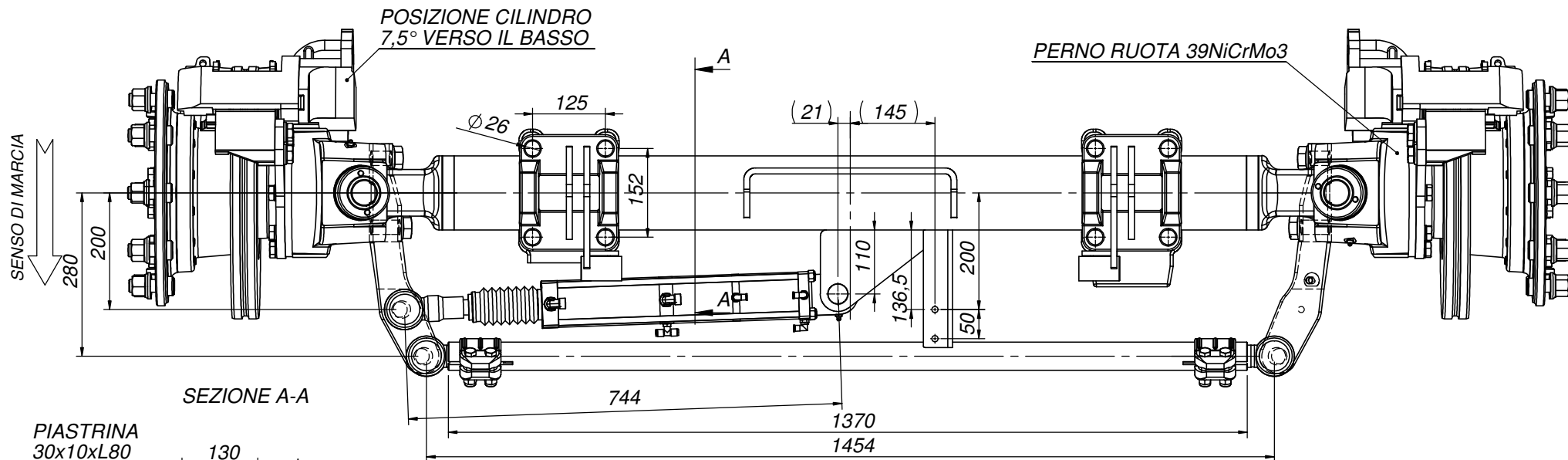


Material --	Heat treatment --	Surface finishing --	Mass (kg) 929,48
Tightening tolerance - I004	ISO 2768 - ---- Tolerancing ISO 8015	Author P.TOPPANO	Date 06/11/2017
 S.T. System Truck S.p.A. via Paesa, 28 - I 46048 Roverbella (MN) tel. +39 0376 696809 www.stsystemtruck.com		Description SOSP. PNE. POST. PER ASSE STERZ. IDR. 9÷10 TON - DAF CF XF FAT FAD CON SOLLEVATORE	Scale 1:10
Code 10.01.00.0045	Drawing 10.01.00.0045	Sheet 1/1	Format A3

E24*13R11/14*0057*00



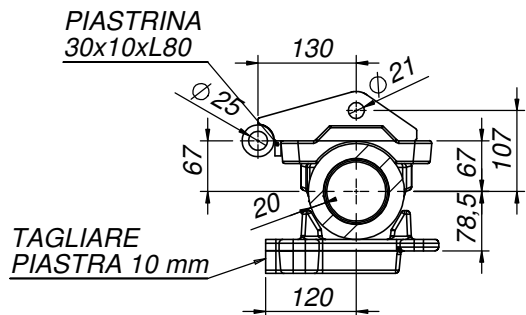
TESTA BONIFICATA
PERN RUOTA 39NiCrMo3



POSIZIONE CILINDRO
7,5° VERSO IL BASSO

PERNO RUOTA 39NiCrMo3

SEZIONE A-A



○ QUOTE DA CONTROLLARE NELLA
FASE DELL'ASSEMBLAMENTO.

□ QUOTE DA CONTROLLARE NELLA
FASE DI CONTROLLO FINALE.

PERSONALIZZAZIONI

-DADI RUOTA: M22X1.5 TIPO "M" H27
-LEVE FRENO:-
-BRAKE CHAMBER:-
-CIL. BLOCCAGGIO:-
-COPRIMOZZO:NEUTRO
-CICLO DI VERNICIATURA: N°1

Assali Tecma		VERONA - ITALY	
AXLE TYPE	ID1 -	BRAKE TYPE	ID2 -
MODEL	S08C072474----		
LOAD CAPACITY	STAT. 9000	Kg	TECH. ID3 - Kg
MAX SPEED	105	km/h	SERIE NUMBER
N° VERBALE DEL FRENO		ID4 -	
N° TEST REPORT			

COD. INTERNO:18254456

QUOTE SENZA INDICAZIONE DI TOLLERANZA GRADO DI PRECISIONE MEDIO
NORMA UNI EN 22768/1

MATERIALE		STATO DI FORNITURA	TRATTAMENTO
ET		SC	MASSA (Kg)
DATA		SCALA	FOLIO
09/02/2016		1:10	A4

DESCRIZIONE: ASC 07TFR ET DISCO PNE965



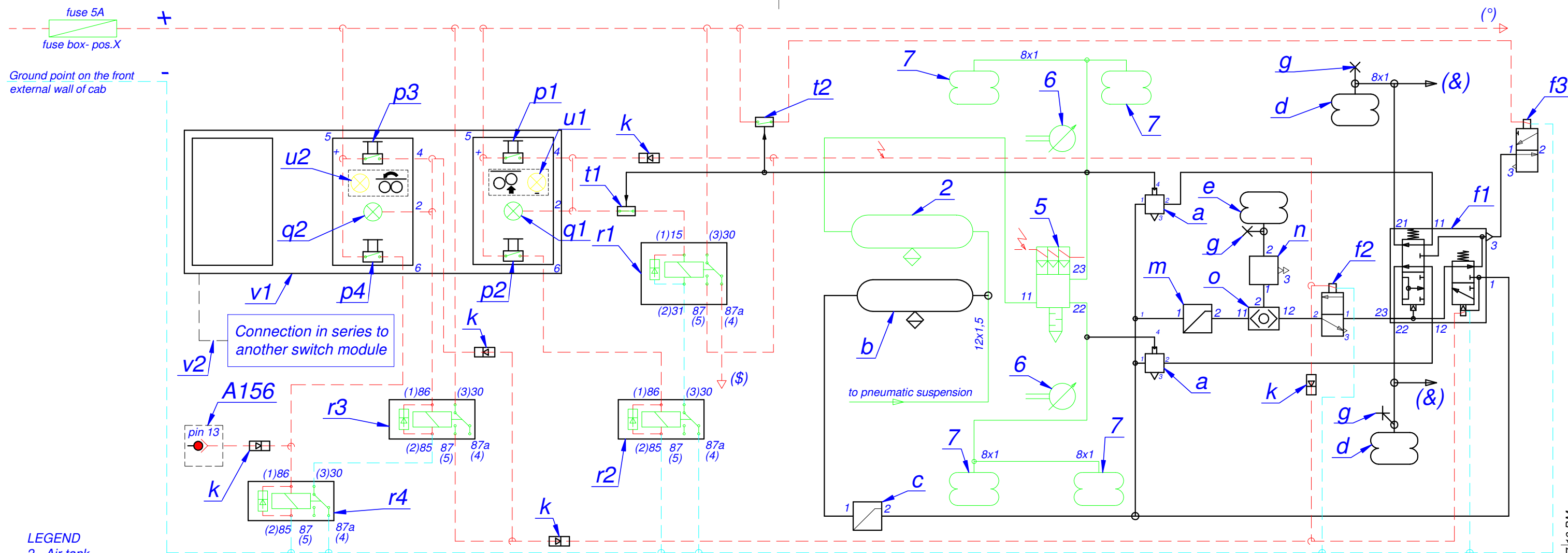
CODICE DISEGNO:

S08C072474----

REG. PERNO DEL FUSO IL001 REGISTR. CONVERGENZA IL002 ISTRUZIONE MONT. MOZZI IL021 TORNITURA FRENI LUBRIFICAZIONE MOZZI IL007 REGISTRAZIONE GIOCO CUSCIN. IL004

PROPRIETÀ DELLA DITTA TECMA S.R.L. SENZA AUTORIZZAZIONE DELLA STESSA IL PRESENTE DISEGNO NON POTRÀ ESSERE UTILIZZATO PER LA COSTRUZIONE DELL'OGGETTO RAPPRESENTATO. NE VENIRE COMUNICATO A TERZO O RIPRODOTTO. LA SOCIETÀ PROPRIETARIA TUTELA I PROPRI DIRITTI A NORMA DI LEGGE. ALL'PROPRIETÀ IL PRESENTE DISEGNO NON POTRÀ ESSERE UTILIZZATO PER LA COSTRUZIONE DELL'OGGETTO RAPPRESENTATO. NE VENIRE COMUNICATO A TERZO O RIPRODOTTO. ILLUSTRATED AND MUST NOT BE RELEASED TO OTHER WRITTEN CONSENT. ANY VIOLATION WILL BE PROSECUTED.

E24-13R14/14-0057-00



LEGEND

- 2 - Air tank
- 5 - Electropneumatic distributor
- 6 - Positioning sensor (levelling sensor).
- 7 - Air bellow for drive axle suspension.

Components added to build the 4th rear axle

- a - Single command relay valve 1,2:1
- b - Air tank 25 lt with manual purge valve.
- c - Limiting valve (5.9 bar).
- d - Air bellow for 4th axle suspension.
- e - Air bellow for 4th axle lift function.
- f1 - Two section deviator valve with electrovalve N.C. (to command axle lift and load transfer function) (#) (@).
- f2 - Electrovalve to command axle lift (#).
- f3 - Electrovalve - load transfer control (@).
- g - Pressure take-off control.
- k - Diode.
- m - Limiting valve - 0.5 bar.
- n - Rapid release pneumatic valve.
- o - Double stop valve - utilizing Pmax.
- p1 - Rocker switch N.O. to command axle lift ON (#).
- p2 - Rocker switch N.O. to voluntary command axle lift OFF (#).
- p3 - Rocker switch N.O. to command load transfer ON (@).
- p4 - Rocker switch N.O. to voluntary command load transfer OFF (@).
- q1 - Warning light in cab: axle lift ON.
- q2 - Warning light in cab: load transfer ON.
- r1 - Electrical timer relay (delay detachment after 15"), contact N.O. - (insertion of 4th axle lift function).
- r2 - Electrical relay, contact N.C. - (exclusion of 4th axle lift function).
- r3 - Electrical relay, contact N.O. - (insertion of load transfer).
- r4 - Electrical relay, contact N.C. - (exclusion of load transfer).
- t1 - Pressure switch N.C. to exclude automatically axle lift function of the 4th axle - 4.0 bar.
- t2 - Pressure switch N.O. - load transfer control - 6.0 bar.
- u - Switch search illumination
- v1 - Switch module (DAF 2127851)
- v2 - LIN network cable (DAF 2115933)
- A156 (pin 13) - Speed signal (see sheet 4/4): High with V > 30 km/h

(°) to oil level transducer,
page 3/4

(&) to valve pos. "d" of the
brake scheme drawing, page 1/4

(\$) to electric wire steering scheme,
page 3/4

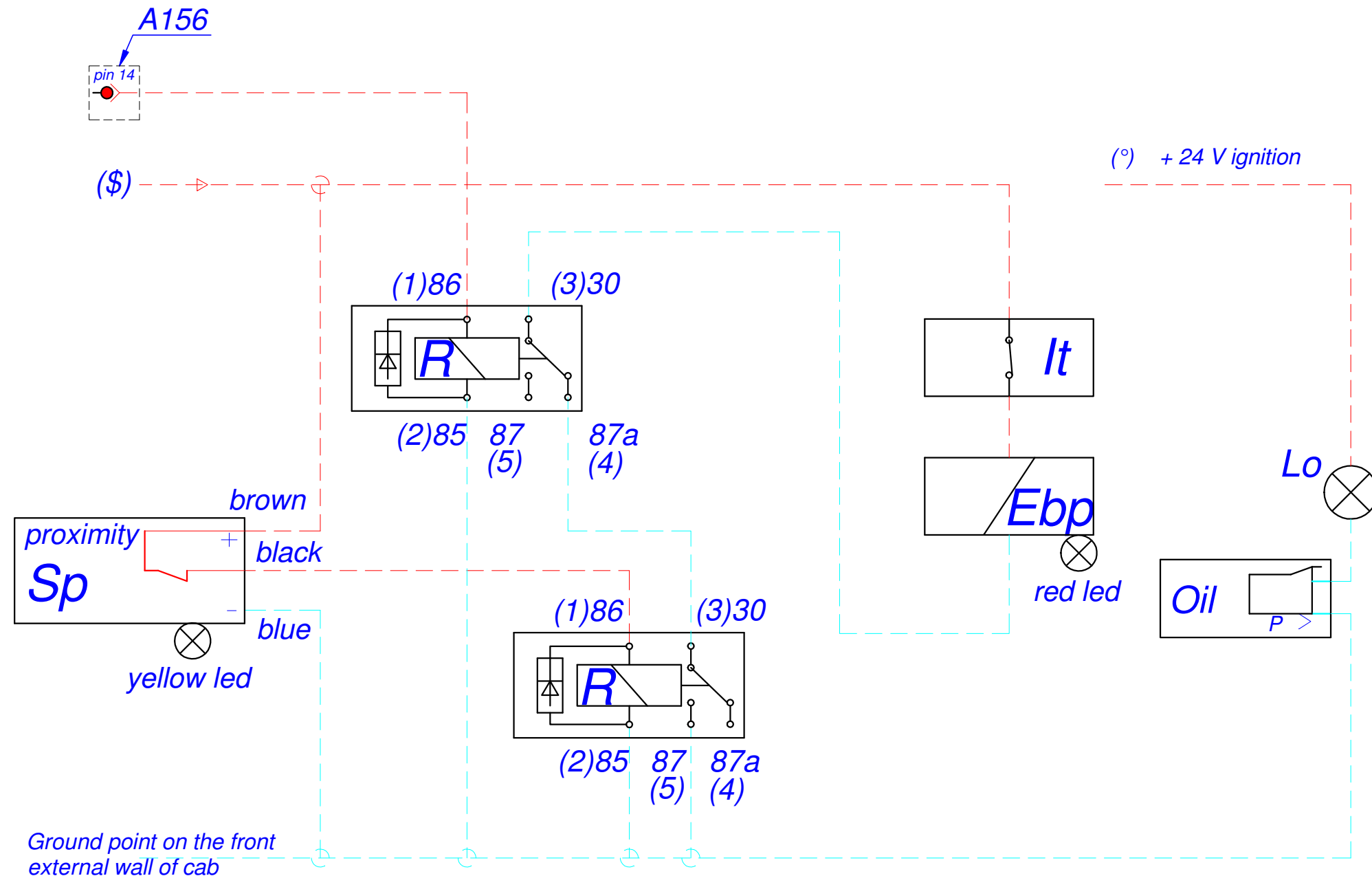
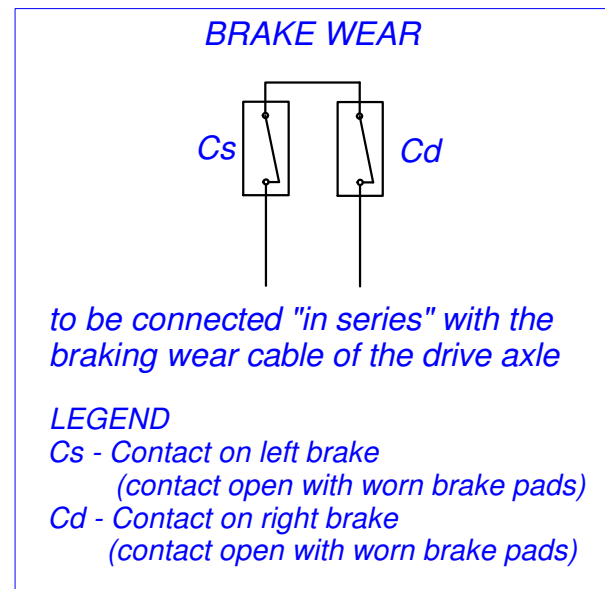
— pneumatic hose (rilsan) Ø8x1
- - - electric cable + 24V
- - - electric cable - ground

(#) Lifting device function: when the "p1" rocker switch is pressed, the relay "r1" is energized (auto-set), commands the electrovalve "f2" and the deviator "f1": the 4th axle lifts. If the pressure in the drive axle suspension reaches 4.0 bar or more, the pressure switch "t1" opens and the auto-set circuit of the the relay "r1" is interrupted, and after a 15 seconds delay the relay turns off: the axle drops to the ground. The voluntary exclusion of the axle lift function is controlled by the switch "p2" and by its relay "r2".

(@) Load transfer device function: when the "p3" rocker switch is pressed, the relay "r3" is energized (auto-set) and commands the deviator "f1": 4th axle suspension air bellows are set into outlet modality. When the established overload limit on drive axles is reached, the "t2" pressure switch energizes the electrovalve "f3" that closes the air outlet. If the speed increases, at the limit of 30 km/h the system is switched off by the "r4" relay. The voluntary exclusion of the load transfer is controlled by the switch "p4" and its relay "r4".

PNEUMATIC AND ELECTRIC SUSPENSION SCHEME

Disegnato da F. Martini	Controllato da P. Martini	Data 09.02.2018	Scala	Quote senza indicazione di tolleranza secondo tabella UNI EN 22768/1, con grado di precisione	Formato disegno A3 UNI 936
 S.T. System Truck S.p.A. via Paesa 28 - I 46048 Roverbella (MN) tel. +39 0376 696809				TITOLO PNEUMATIC AND ELECTRIC SCHEME FOR DAF CF XF 6X4 FAT - DISC BRAKE - BUILT INTO 8X4 WITH LIFTABLE REAR 4th AXLE 9 TON & LOAD TRANSFER	N° DISEGNO 25.01.05.0056
Disegno di proprietà della S.T. System Truck S.p.A. Vietata la riproduzione non autorizzata. Property of S.T. System Truck S.p.A. Reproduction not permitted, all rights reserved.				Modifica 1 del 16.07.18	Foglio 2/4
				E24*13R11/14*0057*00	



($^{\circ}$) from fuse box position X,
page 1/4

($\$$) from relay "r1" of the
pneumatic suspension scheme,
page 2/4

RELAY "R" CONTACTS:
 30 - 87 NORMALLY OPEN (NO)
 30 - 87a NORMALLY CLOSED (NC)

STEERING SYSTEM ELECTRIC SCHEME

LEGEND
 Sp - Proximity switch: for signaling the presence of a torque on the distributor lever (N.O.)
 R - Relay
 It - Thermal switch N.C. (90 $\pm$ 5 $^{\circ}$ C)
 Ebp - Oil bypass valve (solenoid) (N.O.)
 Oil - Oil tank low level indicator
 Lo - Low oil level yellow warning led
 A156 (pin 14) - Parking brake signal (see sheet 4/4): High with parking brake engaged

Disegnato da F. Martini	Controllato da P. Martini	Data 09.02.2018	Scala	Quote senza indicazione di tolleranza secondo tabella UNI EN 22768/1, con grado di precisione	Formato disegno A3 UNI 936
S.T. System Truck S.p.A. via Paesa 28 - I 46048 Roverbella (MN) tel. +39 0376 696809				TITOLO PNEUMATIC AND ELECTRIC SCHEME FOR DAF CF XF 6X4 FAT - DISC BRAKE - BUILT INTO 8X4 WITH LIFTABLE REAR 4th AXLE 9 TON & LOAD TRANSFER	
Disegno di proprietà della S.T. System Truck S.p.A. Vietata la riproduzione non autorizzata. Property of S.T. System Truck S.p.A. Reproduction not permitted, all rights reserved.				N° DISEGNO 25.01.05.0056	Modifica 1 del 16.07.18
				Foglio 3/4	

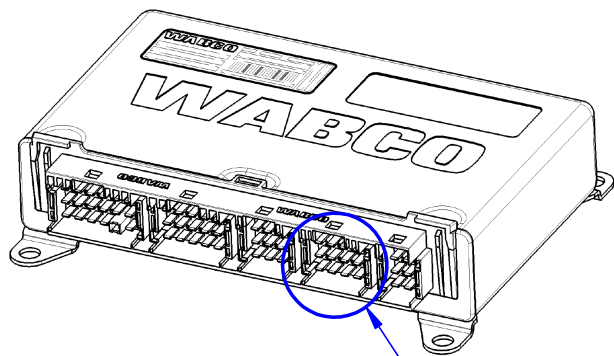
E24*13R11/14*0057*00

PARAMETER LIST NECESSARY TO ACTIVATE "Body Builder Signals" ON CONNECTOR A 156
- IN ORDER THE OPTION "Analogue body signals and warnings (7821)" MUST BE SELECTED
- TO REQUEST THE PROGRAMMING COMPILE THE "CF - XF: Customer Parameter Change Form" AS FOLLOW:

Customer parameter code	Output	Signal ID number 0-30 (§)	Threshold value	Function [%], [km/h], [rpm], [°C]	Activation Condition [>], [<]	Activation pin on connector A156
1-260	1	1				13
1-261			30	km/h	>	
1-262	2	2				14
1-263			---	---	---	
1-264	3	---				15
1-265			---	---	---	
1-266	4	---				17
1-267			---	---	---	

(§) Signal ID related function:

- 1: Vehicle speed (hysteresis on switch off = 3 km/h)
- 2 : Park brake



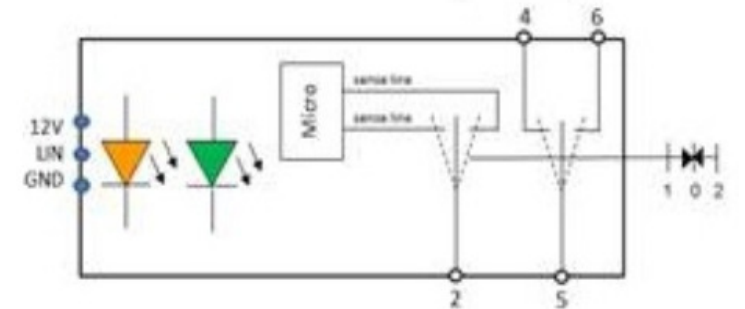
Remove cables from pins nr. 2, 5, 9, 12 from connector x4 (12 ways)
from EBS control module (in the dashboard)



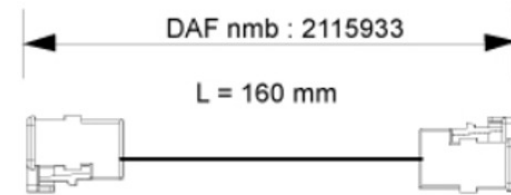
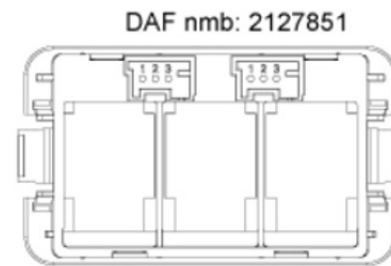
Remove the ESC control module from chassis and apply closing cap to the harness

Code	Description	Qty
2141416	PULS. PER COMANDO TRASPOSITORE - DAF - (UTILIZZATA LA COVER)	1
2141417	PULS. PER COMANDO SOLLEVATORE - DAF - (UTILIZZATA LA COVER)	1
2109658	INTERRUTTORE CABLATO - DAF - ON / OFF / ON (UTILIZZATO PER SOLLEVATORE CON LA COVER DI 2141417)	1
2127908	INTERRUTTORE CABLATO - DAF - ON / OFF / ON (UTILIZZATO PER TRASPOSITORE CON LA COVER DI 2109658)	1
2127851	MASCHERA SUPPORTO INTERRUTTORI - DAF	1
2127852	TAPPO SLOT VUOTO - DAF	1
2115933	CAVO PER COLLEGAMENTO DI RETE LIN - DAF	1

DAF P/N	IMAGE I SYMBOL No.
2141416	17
2141417	16



Code: 2109658 / 2127908



PARAMETERS LIST AND ELECTRICAL ORIGINAL COMPONENTS USED

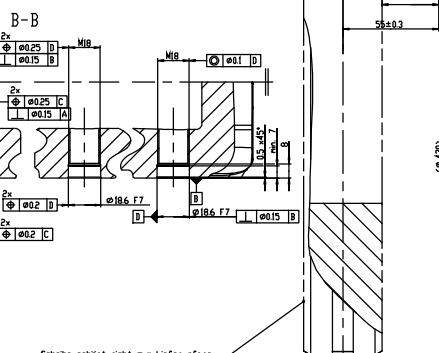
Disegnato da F. Martini	Controllato da P. Martini	Data 09.02.2018	Scala	Quote senza indicazione di tolleranza secondo tabella UNI EN 22768/1, con grado di precisione	Formato disegno A3 UNI 936
Disegno di proprietà della S.T.System Truck S.p.A. Vietata la riproduzione non autorizzata.				TITOLO PNEUMATIC AND ELECTRIC SCHEME FOR DAF CF XF 6X4 FAT - DISC BRAKE - BUILT INTO 8X4 WITH LIFTABLE REAR 4th AXLE 9 TON & LOAD TRANSFER	N° DISEGNO 25.01.05.0056
S.T. System Truck S.p.A. via Paesa 28 - I 46048 Roverbella (MN) tel. +39 0376 696809				Property of S.T.System Truck S.p.A. Reproduction not permitted, all rights reserved.	Modifica 1 del 16.07.18
					Foglio 4/4

E24*13R11/14*0057*00

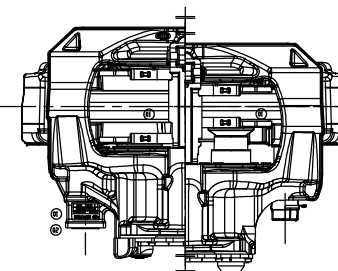
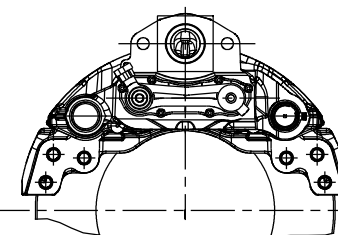
Transportschutz eingesteckt => siehe Tabelle
 transport protection => see table
 protezione di trasporto => vedi tabella
 Schnittstelle entsprechend Spezifikation 2005657
 Interface according to specification 2005657
 Verschleissanzeige ==> siehe Tabelle
 Wear indicator ==> see table
 Lackierschutzkappe
 nach Lackieren entfernen
 Varnish protection
 after varnish must be removed
 Protection contre la peinture
 après l'opération de peinture enlever la protection
 Protezione contro la vernice
 togliere il tappo dopo la verniciatura

Transporterschutz: Abdeckband
Transport protection: masking tape

max. stat. Hüllkontur
max. stat.enveloping contour
max. profilo in gonbro
rinza statica



Ausführung B
Version B
Versione B
M 1:25



Prestazioni Brake factor Coefficiente di frenata Verbruggen Efficiency Rendement Rendement, nec.	$C =$ latente Ratio $C =$ latente Ratio $\eta_n = 895$	Untersuchungsverfahren bei 30m/h Ratio Report of transmission Rapporto di trasmissione con corsa di 30 m With Braking Non friction ratio Dynamic treatment Rapporto medio di attrito	$i = 156$ $\eta_n = 81726 \text{ n}$	Luftfahrt Concorde Airspeed Good function Anzeichen für Response Force Force de réponse Force de réponse	0.7 ± 0.2 $F_{An} = 150 \pm 15$
--	--	---	---	---	--

[illegible]

Zusätzlich: Scheibenverschnitt
Perrisdrill disc
4 mm pro Realisize
Usure centrale du disque
Usura nel disco

Bremsmoment - Brake torque - Couple de freinage - Coppia frenante

$$M_B = C^B \cdot n \cdot F_x \cdot \eta_B \cdot R_B$$

Zulässiges Bremsmoment
Admissible brake torque } max. 27.000 Nm

Oberflächenschutz-Surface protection-protezione superficce

Z/ Einzelteil allseitig
single part all over
particolare dappertutto } Fe/Znph ULTRATEC 500

[illegible]