

### Vehicle characteristics

#### Basic characteristics

OP1Z7	TG3
OP3M3	MAN
OP3MA	Trucks
OP3M8	NHMR
OP2U9	Chassis
OP2UC	Chassis class, heavy
OP3FQ	Destination: Algeria (DZ)
OP8LK	Merchant tonnage 33 t
OPLSI	Basic layout, standard vehicle
OPLSC	Application area, on road extreme (R3)
OP2TQ	Frame type, medium-high
OP2UQ	Vehicle type, platform truck and chassis (LK)
OP3AS	Left-hand-drive
OP3F5	Right-hand traffic
OP2LA	Vehicle documentation in French
OP8NN	Labelling in French
OTOBK	Type truck 26E
OP6C0	D20R6_EURO2_L
OP6MM	LK_NN_3900_2050
OPGDK	NN_S

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**Add/remove    Code    Description**

OPHBE Cab position 640 mm (distance from frame lower edge to cab floor)

**Registration**

OP3JS Vehicle approval, N3G class

OP2UJ Maximum speed limiter, 89 km/h, tolerance +1 km/h, electronic, engine speed regulation

OP1 NC Maximum vehicle noise level, 80 dB in acc. with UN/ECE-R 51.02

OPHA1 Height over cab, unloaded up to 4,000 mm

OPHDB Swing out of vehicle rear up to 800 mm/1,000 mm with raised or steered last axle

OPKAW Vehicle classification in accordance with regulation (EU) 2018/858

**Documents**

OP2U4 CEMT certification

OP3B0 Without registration documentation, national

OP3CK Special confirmation, heavy load / municipal operation

**Application scope / transport tasks**

OP6WH Construction

OP2QG 021 Tipper, three-way

OPHI B Temperature range, vehicle deployment, warm country

OP4F0 Case hardness of final drive Distribution

**Lines, editions and packages**

OPVBQ Without Efficient Drive

OPJTA Basic paintwork

OPJT1 Without Individual Lion package

**Horizontal and vertical loads**

OP5P5 27,000 kg permitted gross load, vertical, nat. appr.

OP5UA 33,000 kg permitted gross load, vertical, tech.

OP8HZ 33,000 kg permitted gross load, vertical, tech. Plus

OP5KT 8,000 kg permitted load on front axle, nat. appr.

OP5LN 8,000 kg permitted load on front axle, tech.

OP8D4 8,000 kg permitted load on front axle, tech. Plus

OP703 8000/0kg load variant, vertical, front axles, national registration

OP7QE 8000/0kg load variant, vertical, front axles, tech.

OP7R4 8000/0kg load variant, vertical, front axles, tech. plus

OP5GZ 10,500 kg permitted load on rear axle NatZu

OP5I O 13,000 kg permitted load on rear axle, tech.

OP8BY 13,000 kg permitted load on rear axle, tech. Plus

OP5FG 10,500 kg permitted load on 2nd rear axle NatZu

OP5M9 13,000 kg permitted load on 2nd rear axle, tech.

OP7TJ 13,000 kg permitted load on 2nd rear axle, tech. Plus

Add/remove	Code	Description
	OP7DV	0/10500/10500/0kg load variant, vertical, rear axles, national registration, T1=21000
	OP7IG	0/13000/13000/0kg load variant, vertical, rear axles, tech., T1=26000
	OP7NU	0/13000/13000/0kg load variant, vertical, rear axles, tech. plus, T1=26000
	OP7UY	21000kg permissible load on axle group T1, national registration
	OP7WF	26000kg permissible load on axle group T1, tech.
	OP7X9	26000kg permissible load on axle group T1, tech. plus
	OPFYT	Load key, vertical, 204
	OP8XD	0kN D value
	OP9E1	0/0kg load variant, horizontal, assign., national registration
	OPAPJ	0/0kg load variant, horizontal, assign., tech. hom.
	OP9TI	0/0kg load var., hor., assign., tech. plus, D-value=0kN, without gradeability restrictions
	OPFYP	Load key, horizontal, 121
<b>Notification texts</b>		
	OPFZP	Note: With increased permissible gross weight, increase in wear of driveline and reduced service life
	OPJRV	Without note (propshaft wear)
<b>Scopes for adaptation for military use</b>		
<b>Chassis</b>		
<b>Vehicle frame (wheelbase, overhang, ...)</b>		
	OP2ZK	Main wheelbase, 3,900 mm
	OP3BX	Wheelbase between rear axles, 1,400 mm
	OP3DJ	Frame overhang, rear, 2,050 mm
	OPOY7	Main frame side member thickness, 9.5 mm
	OPOXT	Vehicle rear, straight end of frame
<b>Exhaust system, air intake</b>		
	OP1BG	Exhaust silencer, side, left
	OP1BQ	Exhaust tailpipe, towards rear
	OPOAY	Air intake, behind cab, raised
<b>Battery cases, batteries, alternator</b>		
	OPGB1	2 batteries, 12 V, 180 Ah, long-life (EFB), maintenance free
	OP1BW	Three-phase alternator 28 V, 120 A, 3,360 W, Longlife Eco
	OPOWU	Medium battery box, 2 batteries
	OPOW0	Battery box, left
	OPOWF	Main battery switch, mechanical
	OP1V1	Fuses
<b>Tanks and fuel line</b>		
	OP4ED	Fuel tank capacity 400 l, right
	OP4GN	Fuel tank, right, steel

Add/remove	Code	Description
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	OP4HE	Tank cross-section, right, medium
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	OP4H5	Fuel tank cap, lockable for master key system
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	OP1 W9	Fuel pre-filter position on the battery box
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**Frame attachments**

	OP1FM	Without underride protection, front
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	OP0VH	Without working platform
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	OP1FG	Without underride protection, side
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	OP1GR	Spare wheel, provisionally mounted
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	OP1SB	Final cross member, with hole pattern 160 x 100 mm
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	OP1FD	Underride protection, rear, round
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	OP1FQ	Wheel chock, 2 unit, with retaining device
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	OP0X6	Without body attachment brackets/thrust plates
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**Pneumatic brakes, compressed-air generation, brake system**

	OP0AI	Air compressor, 2-cylinder, 720 ccm
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	OP0B2	Air dryer, heated
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	OP0AA	Compressed-air treatment, electronically controlled
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	OP0XH	Steel compressed-air tank
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	OP0BL	Electronic brake system (EBS)
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	OP0BF	Anti-lock braking system (ABS), Offroad, with additional off-road logic
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	OP0CM	Full brake assistant
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	OPHPM	Without preparation for EBS Full control unit
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	OP0BW	MAN EVBec high-performance engine brake, stages possible
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	OP1I 9	Disc brakes on front axle
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	OP1I 5	Drum brakes on rear axle
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	OP1I F	Drum brakes on 2nd rear axle
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	OP3KH	Parking brake control, next to driver's seat
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	OPGBL	Parking brake with spring-type actuator on rear axles (incl. leading axle/ trailing axle)
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	OP0BG	Brake lining thickness display, with brake lining wear warning
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	OP0BI	Harmonisation of brake lining wear
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**Lights and acoustic signals on the chassis (rear lights, ...)**

	OP2AQ	Rear lights
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	OP0CG	Emergency braking signal, hazard light activation, automatic
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	OP3CG	Without reversing warning system
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	OP2AD	Light function test
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	OP2BJ	Side marker lights, LED
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**Driveline/running gear**

**Engine, radiator**

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Add/remove	Code	Description
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	OP6BR	Diesel engine MAN D2066 LF06, 294 kW (400 hp) output, 1,900 Nm torque, Euro 2
	OPHI F	Fuel filter, heated, for fuels up to Cleanliness Class 21
	OP4XP	Fuel pre-filter, with oil separator/water trap, with water sensor, heated
	OPOG5	Without torque reduction
	OP8PN	Ventilation, crankcase, open
	OP2E7	Anti-noise skirt, engine
	OP1YE	Reduction of dust swirl through radiator fan
	OP4XX	Engine cooler, normal length
	OP1XE	Radiator protection, lower
	OP1VP	Front radiator protection, grille
	OP0B6	Engine oil dipstick and digital oil level gauge
	OP0KA	Warning message for engine coolant level, with advance warning
	OP0AK	Antifreeze, down to -32 °C

**Gearbox, clutch**

	OP5VL	Manually operated gearbox, MAN 16.25 OD
	OPGCL	Gearbox for increased percentage of overrun during driving operation
	OP3KL	Manual gearbox operation, single-H, group/split switch
	OP0DW	Single-disc clutch, 430 mm, dry, reinforced (LongLife)
	OPKZJ	Main propshaft, 30,000 Nm functional limit torque
	OPKZN	Propshafts with high-temperature grease, cannot be lubricated
	OP0E2	Driveline propshaft, reinforced
	OPGCF	Propshaft, 2nd rear axle, reinforced
	OP0FW	Gearbox heat exchanger

**Wheels, tyres**

	OPFW2	Required tyre speed index J
	OPGJP	Tyres for front axle, Goodyear 315/80R22.5 OMNITRAC S Steering-Road+Offroad TL
	OPOP0	Rim type, front axle, steel, single-part
	OPONI	Rim size, front axle, 10-hole, 9.00x22.5
	OPOP R	Wheel nut cover ring, front axle
	OPGFT	Tyres for rear axle, Goodyear 315/80R22.5 OMNITRAC D Drive-Road+Offroad TL
	OP000	Rim type, rear axle, steel, single-part
	OPOMU	Rim size, rear axle, 10-hole, 9.00x22.5
	OPGG4	Tyres for 2nd rear axle, Goodyear 315/80R22.5 OMNITRAC D Drive-Road+Offroad TL
	OPOPA	Rim type, 2nd rear axle, steel, single-part
	OP007	Rim size, 2nd rear axle, 10-hole, 9.00x22.5
	OPOMH	Spare wheel, in accordance with configuration for front axle tyres

**Axles**

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**Add/remove    Code            Description**

	OP3B9	6x4
	OP1JY	Steering ratio, indirect
	OP1JV	Steering oil tank with electrical measuring sensor
	OP5EX	Front axle, 9,200 kg, not driven, straight, steered, not liftable
	OP1AT	Mudguard, front axle
	OP1XS	Splash guard mat on mudguard, front axle, longer at bottom
	OP1Y1	Rear axle HPD-1382, 13,000 kg, planetary axle with drive-through, straight, not steered, not liftable
	OP1HN	Twin tyre on rear axle
	OP1AQ	Transfer mudguard, rear axle
	OP1VD	2nd rear axle HP-1352, 13,000 kg, planetary axle without drive-through, straight, not steered, not liftable
	OP1HW	Twin tyre on 2nd rear axle
	OP1B6	Transfer mudguard, 2nd rear axle
	OP0CW	Axle ratio, i = 3.25
	OP0DI	Differential locks on driven rear axles
	OP0DL	Without differential locks, front axles
	<b>Axle control system and suspension</b>	
	OP2YB	Suspension type for front axles and driven rear axles, leaf/leaf (BB)
	OP1JD	Leaf-spring suspension on front axle, parabolic, 2-leaf, steel
	OP1J2	Leaf-spring suspension on rear axle, parabolic, 5-leaf, steel
	OP1JL	Leaf-spring suspension on 2nd rear axle, parabolic, 5-leaf, steel
	OP4YB	Spring load-bearing capacity front axle 9,000 kg
	OP5BW	Spring load-bearing capacity of rear axle, 16,000 kg
	OP5C8	Spring load-bearing capacity of 2nd rear axle, 16,000 kg
	OP1M4	Shock absorbers on front axle
	OP1LQ	Shock absorbers on rear axle
	OP1M9	Shock absorbers on 2nd rear axle
	OP1LD	Stabiliser, front axle
	OP1LA	Stabiliser, rear axle
	OP1LH	Stabiliser, 2nd rear axle
	OP6ZR	Wishbone
	OPHN2	Without air suspension control, trailer/semitrailer

**Cab**

**Cab and cab exterior**

	OP2DL	Local transport cab NN
	OP1V8	Cab mount, Basic
	OP1V6	Cab tilt mechanism, manual
	OP1VW	Tilting roof, mechanical

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Add/remove	Code	Description
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	OP1SG	Bumper, steel, 3 pieces
	OP1VE	Front step, integrated, with grab option
	OP1X0	Windscreen, composite safety glass, tinted
	OP1WK	Sunblind, in front of windscreen
	OP1WG	Wiper system for windscreen

	OP1UL	Wiper activation, manual
	OP1V0	Step unit, hinged
	OP1WR	Central locking, with remote control

	OP3JT	Vehicle key, 2 units
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	OP1WV	No door extension
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	OP2DQ	Door labelling, according to trade tonnage of vehicle
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	OP1W0	Door windows, tinted
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	OP1WM	Door window, safety glass
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	OP1VD	Cab rear wall, no window
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**Lights and acoustic signals on cab exterior (headlights, horn, ...)**

	OPKWR	H7 package Plus, front headlights, fog lights, cornering light
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	OP1ZN	Front headlights, H7
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	OP1ZT	Stone protection for front headlights, guard, wide mesh
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	OP2BP	Daytime driving lights, LED
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	OP2AH	Fog lights, H7
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	OP1YF	Cornering light, H7
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	OP1Z7	Turn signal lights, sides, LED
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	OP2AC	Headlight beam regulator, manual
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	OP1ZF	Driving-light control, manual
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	OP2BS	Contour lights, LED, 2 units
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	OP1W1	Horn, two-tone, electrical
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	OP2BD	Revolving beacons, LED, yellow (individual LEDs light up in cascades, revolving)
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	OP2B3	2 revolving beacons on cab roof, 1 right and 1 left
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	OPJRO	Without revolving beacons at the rear of the vehicle
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**Mirrors and mirror replacements**

	OPKWY	Mirror package, exterior rear-view mirror, manually adjustable, front mirror, kerb mirror, right
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	OP2CC	Exterior rear-view mirror, mechanically adjustable
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	OP2CH	Kerb mirror, right, mechanically adjustable
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	OP2CJ	Front mirror, mechanical adjustment
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	OP2CP	Mirror housing, not painted
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	OP2CT	Vehicle components, suitable for body width larger than 2,400 mm to 2,600 mm
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**Seats**

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Add/remove	Code	Description
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	OP2PQ	Seat covers, fabric, standard
	OPKXG	Plus driver's seat package, air-sprung, belt height adjustment
	OP2P2	Comfort driver's seat, air-sprung
	OP20E	Driver's seat arm rests
	OP4XQ	Adjustment of seat belt height, driver's seat
	OPKTZ	Basic co-driver's seat package, unsprung, with storage box
	OP200	Co-driver's seat, not sprung, with storage box
	OP2Q6	Storage space, in seat bracket of co-driver's seat
	OP8L1	Indicator, seat belt, 1st row of seats, acoustic and visual

**Driver's workplace**

	OP2GD	Multi-function steering wheel, adjustable height and angle
	OP2GE	Steering wheel, with parking position
	OP3K0	Steering lock, with electronic immobiliser
	OP3L2	Professional instrumentation, 12.3"
	OP2KW	Analogue tachograph, CONTINENTAL
	OP2KG	Tachograph, calibrated
	OPGT7	Stowage compartment, open with two USB sockets, 5 V, charging only, to the right of climate control panel
	OP2F0	Plug-in ashtray, instrument panel in middle section, 1 unit
	OP2I H	Cigarette lighter
	OP2FJ	Single DIN slots, 4 units, roof space, front
	OPJRS	Without storage tray next to seat

**Cab air-conditioning system**

	OP2NU	Air-conditioning system, manual
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**Bunk area**

	OPKFY	Without bunk area
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**Cab interior**

	OPKFZ	Dark Moon Grey with silver colour scheme for cab interior
	OPGBT	Interior styling analogous to colour scheme
	OPKTK	Driver's workplace package with roller blind, driver's and co-driver's side
	OP2FE	Windscreen roller blind, internal
	OP2FG	Roller blind for door windows, internal, mechanical, driver's and co-driver's sides
	OPKMY	Interior light, reading light (driver's side)
	OPHA6	Interior light, central
	OP2I Q	Reading light, 1 unit, driver's side
	OP2I O	Entry lighting
	OPHPK	Entry handles, standard
	OP2I A	Door interior cladding, washable

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Add/remove	Code	Description
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	OPKWA	Without additional storage and stowage space
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	OP2F2	Storage box, cab rear wall, 2 units, behind driver's and co-driver's sides
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	OP2HK	Storage, instrument panel in middle section, open
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	OP2G2	Grab handle, above door, internal, 2 units, 1 right and 1 left
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**Accessories and tools**

	OPKXD	Accessories and tools Plus
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	OP2TX	Vehicle toolkit
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	OP3F3	First aid kit
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	OP3FI	Warning triangle, 1 units
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	OP3CI	Window cleaning set
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	OP3FF	Hazard warning light, 1 units, with continuous light function
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	OP3F9	Jack, 25,000 kg
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**Intelligent Truck**

**Assistance systems**

	OP1TN	Electronic Stability Program (ESP)
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	OP1T2	Anti-slip control (ASR)
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	OP1TR	Tempomat (cruise control, CC)
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	OP0C3	Road speed limiter, adjustable, limiter (engine speed regulation)
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	OP1U5	Without advanced emergency braking system
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	OPHN5	Without driving fitness detection system
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	OPHNA	Without Front Detection
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	OPHNE	Without traffic sign recognition
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	OPHNV	Without Reversing Motion System
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	OPKA0	Without distance warning system
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	OPLB5	Without MAN SafeStop Assist
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**Infotainment (radio,...)**

	OP2M1	MMT infotainment system, Starter Basic
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	OP2MF	MAN loudspeaker system
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	OP2N2	No navigation map
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	OP2JL	Arabic additionally for display
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**Bodies/interfaces**

**Interfaces to semitrailer (e.g. fifth-wheel coupling, brake connection,..)**

	OP103	Without trailer brake connection behind cab
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	OP1RJ	No fifth-wheel coupling
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	OPHN7	Without sensing of the fifth-wheel coupling
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**Interfaces to trailer (e.g. trailer coupling, brake connections,..)**

	OP1MZ	Towing coupling at final cross member, ROCKINGER SK5
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Add/remove	Code	Description
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	OP1SH	Towing coupling on final cross member
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	OP100	Without trailer brake connection at end of frame, centre
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	OP10W	Without trailer socket at frame end
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	OP109	Without trailer socket for anti-lock brake system (ABS)
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**Ex works bodies and interfaces to bodies (e.g. tipper indicator...)**

	OP0XE	Compressed-air connection for body supply
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	OP0K8	Preparation for engine start/stop facility, under front panel
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	OPLBV	Preparation for interface for digital data exchange with body (Application Fit, ZDR), front area
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	OP2J3	Interface for vehicle data (FMS)
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	OP1 NX	Electrical preparation for keypad, body control
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	OPJBE	Interface for extended signal output (EIO)
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**Attachments and interfaces to attachments (e.g. silo compressor, front mounting**

**PTOs**

	OP4N8	PTO, engine-dependent, non-shiftable
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	OP4W9	PTO, engine-dependent, flywheel, flange (6-hole, 100 mm), f=1.233, 870/950 Nm continuous/short
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	OP40R	Flange connection on PTO, engine-dependent, 100 mm diameter (6-hole)
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	OP4XF	Engine-dependent power take-off, continuous operation
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	OP408	Double flange coupling for PTO, engine-dependent, elastic, supplied loose
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	OP4QK	PTO, gearbox-dependent, type NH/4c, without flange, f=1.17/1.40, position approx. 4 o'clock
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	OP4VK	PTO, gearbox-dependent, for short-time operation less than 60 min
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	OP4X9	PTO, gearbox-dependent, shiftable
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	OP4VR	Without fan wheel for PTO, gearbox-dependent
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	OP4WP	Function parameters for PTO; gearbox-dependent, driving operation
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	OP4X0	Sector-specific parameterisation, general
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**Towing, recovery and lashing**

	OP1MK	Central coupling jaw, integrated in bumper/front cross member, with lock pin
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**Paintworks**

**Paintwork, cab, top**

	OP6YB	Top coating, cab
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**Paintwork, cab, bottom**

	OP6X9	Textured coating, step units
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	OP6YG	Textured coating, mudguard, behind cab
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	OP6YQ	Textured coating, bumper, steel
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**Paintwork, chassis**

	OPJTK	Without additional top coating on chassis
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	OP6YL	Top coating, rims, steel, white-aluminium
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**Paintwork, body**

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**Add/remove    Code    Description**

**Wheel**

**Front axle**

Tyres for front axle, Goodyear 315/80R22.5 OMNITRAC S Steering-Road+Offroad TL  
Rim type, front axle, steel, single-part Rim size, front axle, 10-hole, 9.00x22.5

**Rear axle**

Tyres for rear axle, Goodyear 315/80R22.5 OMNITRAC D Drive-Road+Offroad TL  
Rim type, rear axle, steel, single-part Rim size, rear axle, 10-hole, 9.00x22.5

**Rear axle 2**

Tyres for 2nd rear axle, Goodyear 315/80R22.5 OMNITRAC D Drive-Road+Offroad TL  
Rim type, 2nd rear axle, steel, single-part Rim size, 2nd rear axle, 10-hole, 9.00x22.5

**Colour**

**cab**

PURE WHITE RAL 9010 - Normal

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