

RX 70 Technical Data

Diesel Forklift Trucks

[RX 70-40](#)

[RX 70-45](#)

[RX 70-50](#)

[RX 70-50/600](#)



RX 70-40/50 Diesel Forklift Trucks

The benchmark for efficiency

This specification sheet, which conforms to VDI guideline 2198, provides the technical values for the standard equipment only. Different tyres, other masts, the use of accessories etc. may result in other values.



Features	1.1	Manufacturer			STILL	STILL	STILL	STILL
	1.2	Manufacturer's model designation			RX 70-40	RX 70-45	RX 70-50	RX 70-50/600
	1.2.1	Manufacturer's type designation			7331	7332	7333	7334
	1.3	Drive			Diesel	Diesel	Diesel	Diesel
	1.4	Operation			Seated	Seated	Seated	Seated
	1.5	Rated capacity	Q	kg	4000	4500	4999	5000
	1.6	Load centre	c	mm	500	500	500	600
	1.8	Load distance	x	mm	540	540	540	550
	1.9	Wheel base	y	mm	2005	2005	2070	2125
Weights	2.1	Service weight (incl. battery)			kg	6076	6278	6590
	2.2	Axle load, laden	front/rear	kg	8896/1180	9632/1146	10468/1122	11014/1160
	2.3	Axle load, unladen	front/rear	kg	2821/3255	2798/3480	2955/3635	3308/3866
Tyres/chassis	3.1	Tyres			Superelastic	Superelastic	Superelastic	Superelastic
	3.2	Tyre size	front	mm	250-15	28 x 12.5-15	28 x 12.5-15	28 x 12.5-15
	3.2	Tyre size	rear	mm	250-15	250-15	250-15	250-15
	3.5	Number of wheels (x = driven)	front/rear		2x/2	2x/2	2x/2	2x/2
	3.6	Track width	front/rear	b ₁₀ /b ₁₁	mm	1136/1120	1210/1120	1210/1120
	4.1	Tilt of mast/fork carriage	forward/backward	α/β	°	6/7	6/7	6/7
Basic dimensions	4.2	Height	mast lowered	h ₁	mm	2400	2400	2400
	4.3	Free lift		h ₂	mm	160	160	160
	4.4	Lift		h ₃	mm	3180	3180	2980
	4.5	Height	mast raised	h ₄	mm	4187	4187	4137
	4.7	Height over overhead guard (cab)		h ₆	mm	2320	2300	2300
	4.8	Seat height rel. to SIP		h ₇	mm	1298	1298	1298
	4.12	Coupling height		h ₁₀	mm	496	496	496
	4.19	Overall length		l ₁	mm	4027	4071	4098
	4.20	Length including fork backs		l ₂	mm	3027	3071	3098
	4.21	Overall width		b ₁	mm	1380	1506/1380 ¹	1506/1380 ¹
	4.22	Fork dimensions		s/e/l	mm	50/120/1000	50/120/1000	50/120/1000
	4.23	Fork carriage ISO 2328, Class/Form A, B				Cl. III, Form A	Cl. III, Form A	Cl. III, Form A
	4.24	Fork carriage width		b ₃	mm	1310	1310	1310
	4.31	Ground clearance under mast, laden		m ₁	mm	140	140	140
	4.32	Ground clearance, centre of wheel base		m ₂	mm	165	165	165
	4.34.1	Working aisle width with pallet 1000 x 1200 crosswise		A _{st}	mm	4401	4441	4470
	4.34.2	Working aisle width with pallet 800 x 1200 lengthways		A _{st}	mm	4601	4641	4670
	4.35	Turning radius		W _a	mm	2661	2701	2730
	4.36	Smallest pivot point distance		b ₁₃	mm	737	737	746
Performance data	5.1	Driving speed	laden/unladen	km/h	21/21	21/21	21/21	21/21
	5.2	Lifting speed	laden/unladen	m/s	0.59/0.59	0.50/0.54	0.50/0.54	0.50/0.54
	5.3	Lowering speed	laden/unladen	m/s	0.50/0.50	0.50/0.50	0.50/0.50	0.50/0.50
	5.5	Traction	laden/unladen	N	22210/20010	22160/20130	22100/21830	22060/22150
	5.7	Gradeability	laden/unladen	%	22/35	21/34	20/33	19/32
	5.9	Acceleration time	laden/unladen	s	5.2/4.7	5.5/4.8	5.9/4.9	6.2/5.0
	5.10	Service brake			Mechanical/hydraulic	Mechanical/hydraulic	Mechanical/hydraulic	Mechanical/hydraulic
IC engine	7.1	Engine manufacturer			Deutz	Deutz	Deutz	Deutz
	7.1.1	Type			TCD 2.9 L4	TCD 2.9 L4	TCD 2.9 L4	TCD 2.9 L4
	7.2	Engine rating to ISO 1585		kW	54	54	54	54
	7.3	Nominal speed		1/min	2200	2200	2200	2200
	7.4	Number of cylinders			4	4	4	4
	7.4.1	Capacity		cm³	2900	2900	2900	2900
	7.5	Fuel consumption according to VDI Cycle		l/h kg/h	4.1	4.3	4.6	4.8
	7.9	On-board voltage	U	V	12	12	12	12
Miscellaneous	8.1	Drive control			Diesel-electric	Diesel-electric	Diesel-electric	Diesel-electric
	10.1	Working pressure for attachments		bar	250	250	250	250
	10.2	Oil volume for attachments		l/min	30	30	30	30
	10.4	Volume fuel tank		l kg	56	56	56	56
	10.7	Sound pressure level ² L _{pA,z} (driver's seat)		dB(A)	<75	<75	<75	<75
	10.7.1	Sound power level LWAZ (work cycle)		dB(A)	<98	<98	<98	<98
		Human vibrations ³ : in accordance with EN 13059		m/s²	0.47	0.47	0.47	0.47
	10.8	Trailer coupling, type/model DIN			Pin	Pin	Pin	Pin

¹ With reduced basic load capacity and/or restricted lifting height

² With cab; higher sound level without cab

³ With standard driver's seat

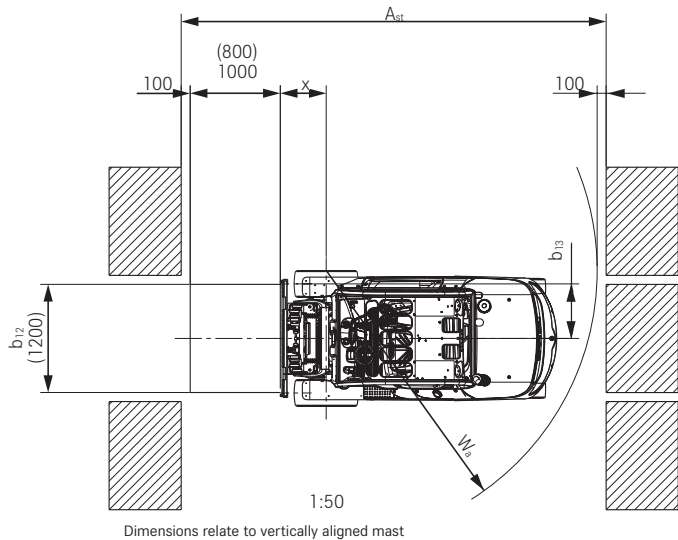
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Mast Tables

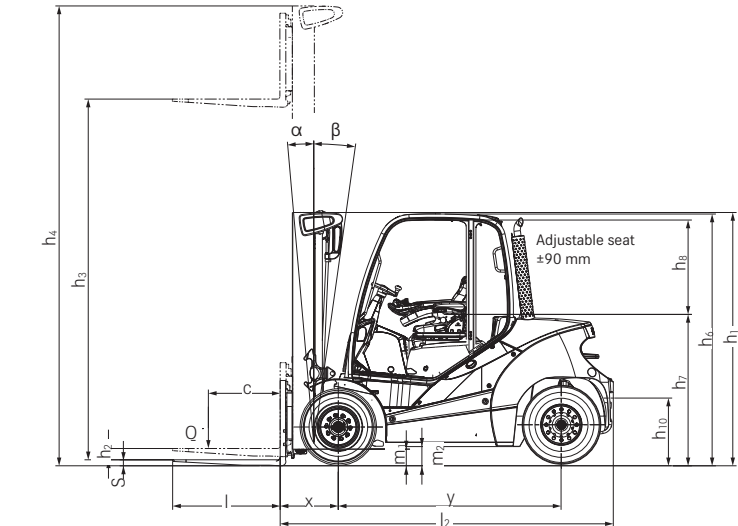
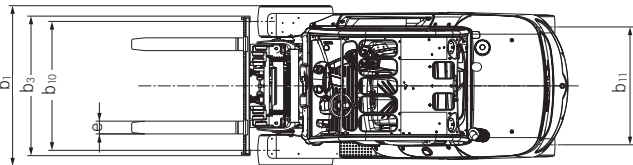


RX 70-40				Telescopic mast							Triplex mast							
	Nominal lift	h ₃	mm	2980	3180	3480	3680	4080	4480	4880	4030	4330	4630	5080	5380	5980	6580	7180
	Overall height	h ₁	mm	2300	2400	2550	2650	2850	3050	3250	2150	2250	2350	2500	2600	2800	3000	3200
	Free lift	h ₅	mm	160	160	160	160	160	160	160	1390	1490	1590	1740	1840	2040	2240	2440
	Maximum height	h ₄	mm	3762	3962	4262	4462	4862	5262	5662	4835	5135	5435	5885	6185	6785	7385	7985
	Tilt of mast/fork carriage	forward/backward	α/β	° 6/7							° 6/7							
	Fork lock-in position centre-centre		mm	191/368/572/673/978 (fork carriage 1310/1410 mm)/1080 (fork carriage 1410 mm)							191/368/572/673/978 (fork carriage 1310/1410 mm)/1080 (fork carriage 1410 mm)							
	Tyres	front/rear		250-15 (7.00-15 twin tyres) / 250-15							250-15 (7.00-15 twin tyres) / 250-15							
Track	front/rear	b ₁₀ /b ₁₁	mm	1136 (1364 twin tyres) / 1120							1136 (1364 twin tyres) / 1120							
Maximum width		b ₁	mm	1380 (1769 twin tyres)							1380 (1769 twin tyres)							
RX 70-45 - RX 70-50				Telescopic mast							Triplex mast							
	Nominal lift	h ₃	mm	2980	3180	3480	3680	4080	4480	4880	4030	4330	4630	5080	5380	5980	6580	7180
	Overall height	h ₁	mm	2300	2400	2550	2650	2850	3050	3250	2150	2250	2350	2500	2600	2800	3000	3200
	Free lift	h ₅	mm	160	160	160	160	160	160	160	1238	1338	1590	1740	1840	2040	2240	2440
	Maximum height	h ₄	mm	3987	4187	4487	4687	5087	5487	5887	4987	5287	5587	6037	6337	6937	7537	8137
	Tilt of mast/fork carriage	forward/backward	α/β	° 6/7							° 6/7							
	Fork lock-in position centre-centre		mm	191/368/572/673/978 (fork carriage 1310/1410 mm)/1080 (fork carriage 1410 mm)							191/368/572/673/978 (fork carriage 1310/1410 mm)/1080 (fork carriage 1410 mm)							
	Tyres	front/rear		28 x 12.5-15 (7.00-15 twin tyres) / 250-15							28 x 12.5-15 (7.00-15 twin tyres) / 250-15							
Track	front/rear	b ₁₀ /b ₁₁	mm	1210 (1364 twin tyres) / 1120							1210 (1364 twin tyres) / 1120							
Maximum width		b ₁	mm	1506 (1769 twin tyres)							1506 (1769 twin tyres)							
RX 70-50/600				Telescopic mast							Triplex mast							
	Nominal lift	h ₃	mm	2780	2980	3280	3480	3880	4280	4680	3730	4030	4330	4730	5080	5680	6280	6880
	Overall height	h ₁	mm	2300	2400	2550	2650	2850	3050	3250	2150	2250	2350	2500	2600	2800	3000	3200
	Free lift	h ₅	mm	160	160	160	160	160	160	160	1130	1230	1330	1480	1580	1780	1980	2180
	Maximum height	h ₄	mm	3887	4087	4387	4587	4987	5387	5787	4795	5095	5395	5845	6145	6745	7345	7945
	Tilt of mast/fork carriage	forward/backward	α/β	° 6/7							° 6/7							
	Fork lock-in position centre-centre		mm	191/368/572/673/978 (fork carriage 1310/1410 mm)/1080 (fork carriage 1410 mm)							191/368/572/673/978 (fork carriage 1310/1410 mm)/1080 (fork carriage 1410 mm)							
	Tyres	front/rear		28 x 12.5-15 (7.00-15 twin tyres) / 250-15							28 x 12.5-15 (7.00-15 twin tyres) / 250-15							
Track	front/rear	b ₁₀ /b ₁₁	mm	1210 (1364 twin tyres) / 1120							1210 (1364 twin tyres) / 1120							
Maximum width		b ₁	mm	1506 (1769 twin tyres)							1506 (1769 twin tyres)							

Technical Drawings



Top view

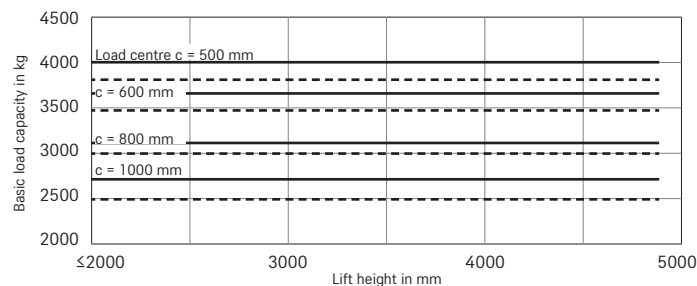


Side view

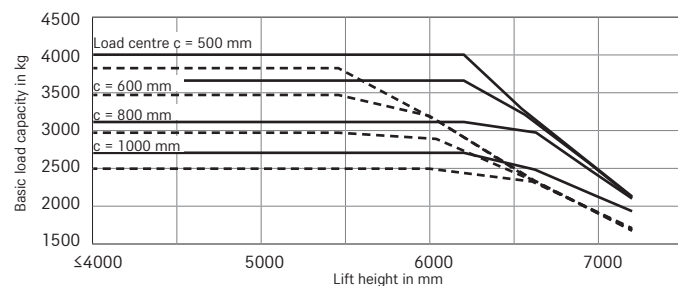
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Basic Load Capacities

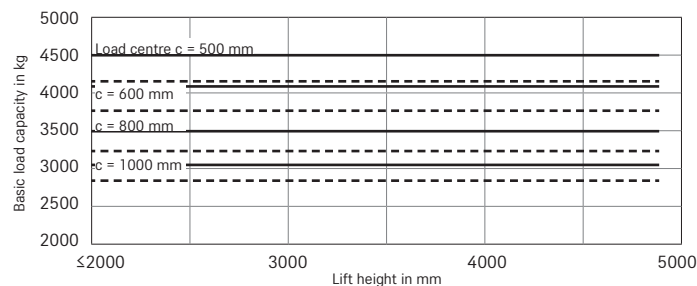
RX 70-40 Telescopic mast
single superelastic tyres



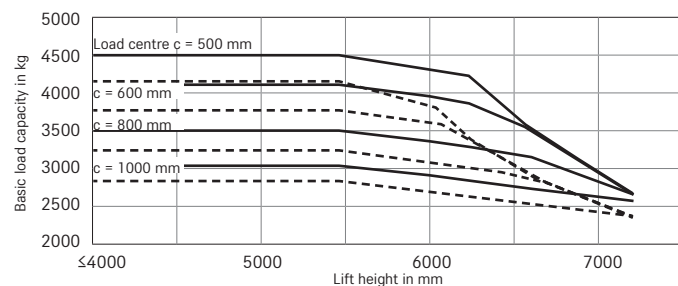
RX 70-40 Triplex mast
single superelastic tyres



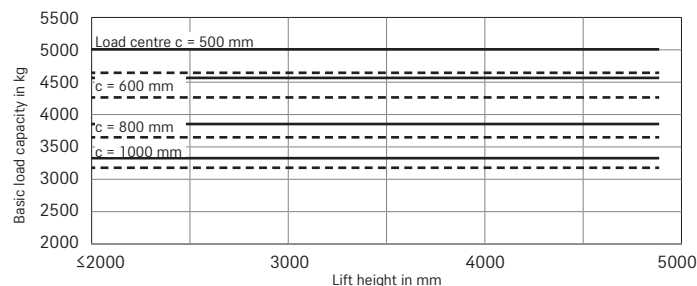
RX 70-45 Telescopic mast
single superelastic tyres



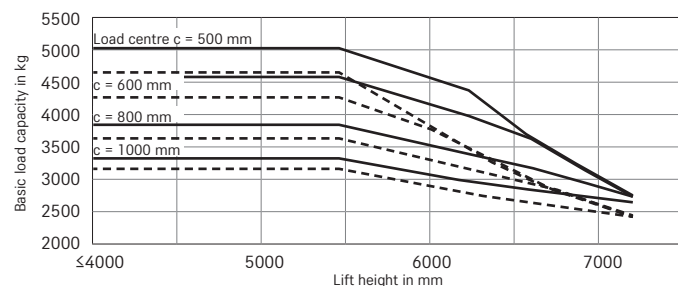
RX 70-45 Triplex mast
single superelastic tyres



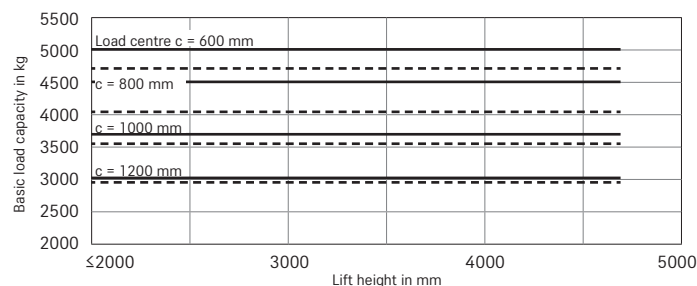
RX 70-50 Telescopic mast
single superelastic tyres



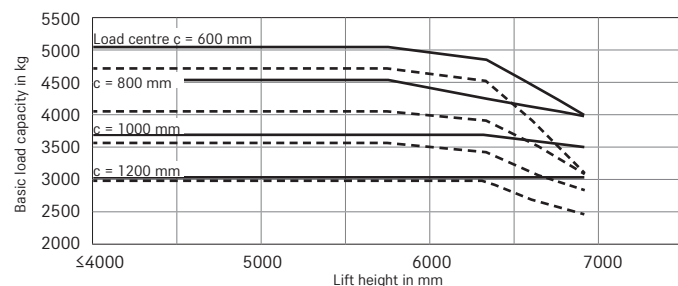
RX 70-50 Triplex mast
single superelastic tyres



RX 70-50/600 Telescopic mast
single superelastic tyres



RX 70-50/600 Triplex mast
single superelastic tyres



— With standard forks - - - With integrated side shifter and standard forks
The values indicated may vary depending on the truck's features

RX 70-40/50 Diesel Forklift Trucks
The benchmark for efficiency



RX 70-40/50 Diesel Forklift Trucks

Detailed Photos



Maximum visibility thanks to numerous windows and narrow overhead guard profiles



Additional protective grille roof



Superior comfort thanks to high-quality driver's seat



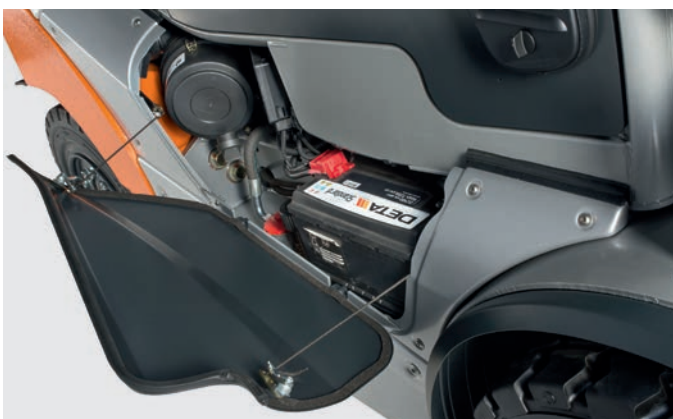
Narrow mast profiles for excellent visibility of forks and load at all times



Precise and fatigue-free working with the Joystick 4Plus



Wide, unrestricted entry and exit area



Good servicing and maintenance access

RX 70-40/50 Diesel Forklift Trucks

The benchmark for efficiency

High availability, longer service life and low operating costs thanks to diesel-electric drive

Individually adjustable: driving and lifting behaviour can be tailored to operational circumstances and driver preferences

High performance: powerful and efficient drive meets sensitive control



The RX 70-40/50 IC trucks with a load capacity of up to five tonnes have been fitted with a diesel-electric drive. This combines the advantages of a powerful internal combustion engine with the precision of an electric drive, guaranteeing high availability, a longer service life and lower operating costs. With their compact design and high manoeuvrability coupled with sensitive transmission and lifting control, the RX 70-40/50 IC trucks enable top handling performance. The driving and lifting behaviour can be adjusted to operational circumstances or driver preferences. All drive components are encapsulated to provide protection against dust and water penetration.

As a result the trucks are perfect for a range of applications, including outdoor use in the construction industry, building materials sector and wood processing, the metalworking industry as well as the food and beverages industry. Customers in the logistics and freight-carrier industries also stand to benefit. The bend-proof and torsionally rigid mast allows safe load handling, even for heavy loads with a high residual load capacity. The comfortable driver's cab incorporates the latest ergonomic criteria to combat fatigue and improve safety. Five driving programmes are available. The Blue-Q energy-saving mode cuts energy consumption by 10 per cent with no loss of performance.

The 'Simply Efficient' factors: Performance attributes as a measure of economic efficiency



Simply easy

- Climb in, be comfortable and get going, thanks to the spacious driver's cab with adjustable steering column and premium driver's seat
- Choose from a range of individual control options: mini-lever, Fingertip or Joystick 4Plus
- Enjoy a spacious and comfortable driver's cab that can be individually set up and offers numerous storage compartments



Simply powerful

- Combination of diesel-electric drive and powerful industrial engines ensures high availability, long service life and low operating costs
- Lifting capacity of up to five tonnes with a load centre of 600 mm
- Fast goods handling thanks to driving speeds of up to 21 km/h



Simply safe

- Perfect all-round view thanks to narrow mast profile and large viewing windows on all sides
- Asymmetrically offset driver's seat affords excellent view of load and fork carriage
- Optimum safety and stability thanks to truck's low centre of gravity
- Large, non-slip step and grab handles for high operator safety standards
- Maximum protection for drivers thanks to the robust, rigid and warp-resistant mast
- Sensitive hydraulic controls ensure safe load handling and prevent damage to goods



Simply flexible

- Five driving programmes ensure perfect set-up for every requirement, from maximum handling capacity to optimum efficiency
- Truck settings can be adapted to the operator: speed, acceleration and braking can all be individually set
- Suitable for use throughout Europe: latest exhaust gas regeneration technology ensures emissions are well within Euro 5 standards
- Top handling performance thanks to compact design, excellent manoeuvrability and sensitive driving and lifting controls



Simply connected

- Digital performance boost: optional interface for integration into fleet management software such as STILL neXXt fleet
- Flexible networking options: provision for MMS means the truck can be easily integrated into any material flow management system

RX 70-40/50 Diesel Forklift Trucks

Equipment Variants

		RX 70-40	RX 70-45	RX 70-50	RX 70-50/600
Driver's cab	Impact-absorbing driver's seat for optimal comfort on uneven routes	●	●	●	●
	Steel protective roof (height approx. 2,325 mm)	●	●	●	●
	Low protective roof (height approx. 2,215 mm)	○	○	○	○
	Weather protection design in different variants	○	○	○	○
	Driver's cab	○	○	○	○
	Tarpaulin cab	○	○	○	○
	Tinted front windscreen, rear and front windows, windscreen washing/wiping facility	○	○	○	○
	Single-pedal transmission control	●	●	●	●
	Double-pedal transmission control	○	○	○	○
	Built-in storage and cup holder	●	●	●	●
	Display and function buttons protected from water spray	●	●	●	●
	Writing pad with clipboard (removable) and light	○	○	○	○
	Grammer driver's seat with leatherette cover	●	●	●	●
	Comfortable driver's seat with textile cover and lumbar support	○	○	○	○
	Exclusive driver's seat with leatherette or textile cover, mechanical or airsprung, extra-wide seat pad, large suspension travel, lumbar support, height-adjustable back extension and heated seat	○	○	○	○
	Horizontal spring plate for driver's seat to minimise human vibrations	○	○	○	○
	Document pocket on the seat back	○	○	○	○
	Roof liner with interior lighting	○	○	○	○
	Radio/MP3 player with USB connection	○	○	○	○
	Adjustable roof window	○	○	○	○
	Protective sunshade and sun blind	○	○	○	○
	Water heating with blower and defroster nozzles for front windscreen and footwell	○	○	○	○
	Air conditioning	○	○	○	○
Mast	Telescopic free view mast	○	○	○	○
	Triplex free view mast	○	○	○	○
	Fork wear protection	○	○	○	○
	Different fork carriage widths and integrated side shifter	○	○	○	○
	Load backrest	○	○	○	○
	Automatic mast vertical position	○	○	○	○
	Hydraulic accumulator in the lifting cylinder to attenuate pressure peaks in the hydraulic system	○	○	○	○
	Angle of incline 6/7° front/rear incline	●	●	●	●
Tyres	Bellows protect the tilt cylinder from dust and moisture	○	○	○	○
	Superelastic tyres, SIT system, single or twin	●	●	●	●
	Superelastic tyres, SIT system, natural colour or anti-static	○	○	○	○
Hydraulics	Pneumatic tyres, single or twin	○	○	○	○
	Proportional valve technology for especially sensitive movements	●	●	●	●
	Joystick 4Plus or Fingertip	○	○	○	○
	Up to three hydraulic circuits for controlling accessories	○	○	○	○
	Custom parametrisation of hydraulic functions	●	●	●	●
	Mini-lever with armrest, two levers	●	●	●	●
Drives	Mini-lever with armrest, three or four levers	○	○	○	○
	Five driving programmes for different driving and braking behaviour	●	●	●	●
	Blue-Q energy-saving mode	●	●	●	●
	Smooth acceleration and reversing	●	●	●	●
	Maintenance-free drives for driving, steering and lifting	●	●	●	●
	Travel and lift drive components enclosed to protect against dust and dirt	●	●	●	●
	Dry air filter with maintenance indicator	●	●	●	●
	Additional air filter or cyclone pre-separator	○	○	○	○
	Automatic engine shutdown	○	○	○	○
	Engine preheating via external power connection	○	○	○	○
Brake	Diesel particle filter	○	○	○	○
	Wear-free disc brakes that run in an oil bath	●	●	●	●
	Electromechanical parking brake	○	○	○	○
Safety	Hydraulic parking brake	●	●	●	●
	Forklift has low centre of gravity and steering axle with high self-aligning bearing for optimum levels of safety	●	●	●	●
	Protective grille roof	○	○	○	○
	Narrow protective roof profile for an optimum all-round view	●	●	●	●
	Easybelt restraint system for quick and safe fastening and unfastening	○	○	○	○
	IWS restraint system with strap opening located on both sides	○	○	○	○
	Lighting system in halogen or LED design, approvable	○	○	○	○
	Working lights in halogen or LED design	○	○	○	○
	Roof window in rear protective roof area, improved visibility when reversing	●	●	●	●
	Flashing warning light	○	○	○	○
	STILL Safety Light warning device, illuminated blue	○	○	○	○
	Seat belt control, drive unit only enabled when seat belt is fastened	○	○	○	○
	Speed limiter adjustable by driver	○	○	○	○
	Tempomat cruise control	○	○	○	○
	Load measuring with ±5 per cent precision	○	○	○	○
	FleetManager: access authorisation, shock detection, reports	○	○	○	○

● Standard ○ Optional — Not available





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STILL is certified in the following
areas: Quality management,
occupational safety, environmental
protection and energy management.

