



RX 70 Technical Data

Diesel and LPG forklift trucks

RX 70-22

RX 70-25

RX 70-30

RX 70-35

RX 70-30

Hybrid

RX 70-35

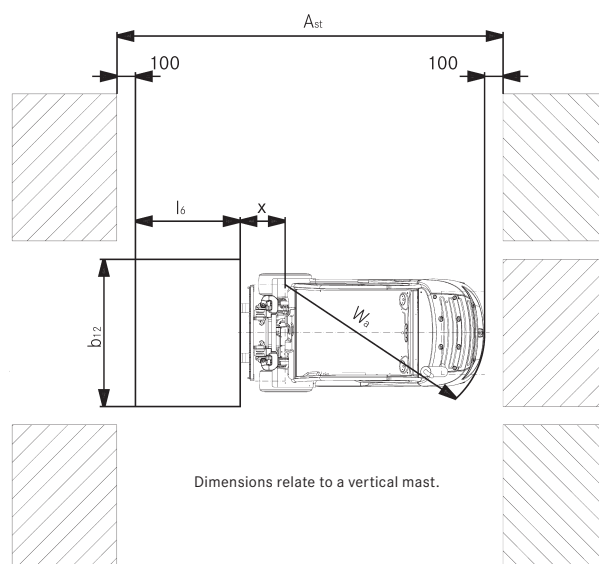
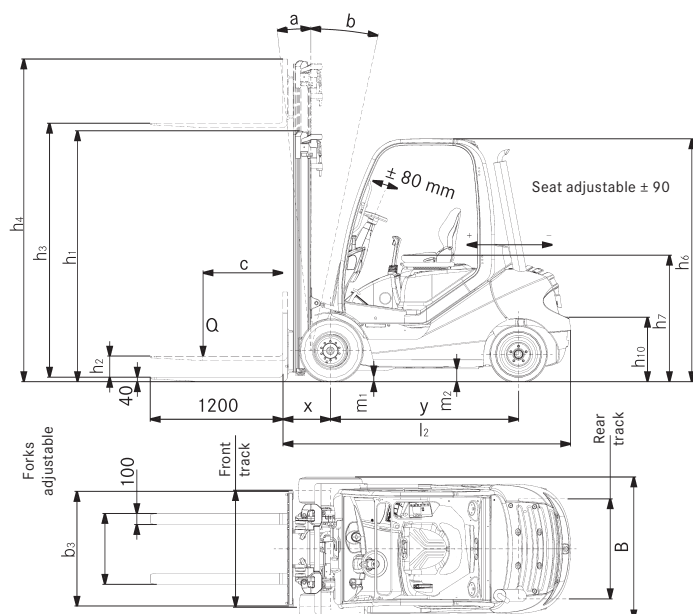
Hybrid



This specification sheet to VDI Guideline 2198 only gives the technical figures for the standard truck.
Different tyres, other masts, additional equipment etc. could give different figures.

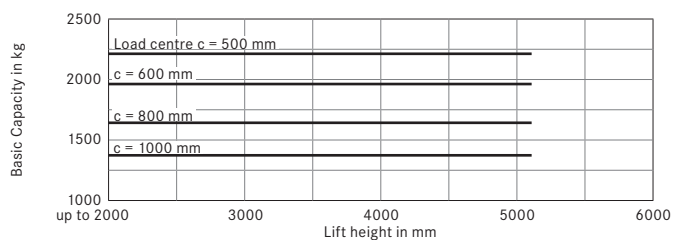
Characteristics	1.1	Manufacturer				STILL	STILL	STILL	STILL	STILL	STILL	STILL	STILL	STILL	STILL
	1.2	Manufacturer's model designation				RX 70-22	RX 70-22 TDI-PD	RX 70-22T	RX 70-25	RX 70-25 TDI-PD	RX 70-25T	RX 70-30	RX 70-30 Hybrid	RX 70-30T	RX 70-35
	1.2.1	Manufacture's type designation				7321	7329	7325	7322	7330	7326	7323	7323	7327	7324
	1.3	Truck type				Diesel	Diesel	LP gas	Diesel	Diesel	LP gas	Diesel	Diesel/Hybrid	LP gas	Diesel
	1.4	Operation				Rider seated	Rider seated	Rider seated	Rider seated	Rider seated	Rider seated	Rider seated	Rider seated	Rider seated	Rider seated
	1.5	Rated capacity	Q kg			2200	2200	2200	2500	2500	2500	3000	3000	3000	3500
	1.6	Load centre	c mm			500	500	500	500	500	500	500	500	500	500
	1.8	Load distance	x mm			430	430	430	430	430	430	450	450	450	450
	1.9	Wheel base	y mm			1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Weights	2.1	Truck weight				kg	3630	3630	3630	3750	3750	4200	4235	4200	4530
	2.2	Axle load, laden, front				kg	5049	5049	5049	5508	5508	6326	6335	6326	7065
	2.2.1	Axle load, laden, rear				kg	781	781	781	742	742	874	900	874	965
	2.3	Axle load, unladen, front				kg	1646	1646	1646	1640	1640	1650	1660	1650	1610
	2.3.1	Axle load, unladen, rear				kg	1984	1984	1984	2110	2110	2550	2575	2550	2920
Wheels chassis	3.1	Tyres					SE	SE	SE	SE	SE	SE	SE	SE	SE
	3.2	Tyre size, front					23 x 9-10	23 x 9-10	23 x 9-10	23 x 9-10	23 x 9-10	23 x 9-10	23 x 9-10	23 x 9-10	23 x 10-12
	3.3	Tyre size, rear					21 x 8-9	21 x 8-9	21 x 8-9	21 x 8-9	21 x 8-9	21 x 8-9	21 x 8-9	21 x 8-9	21 x 8-9
	3.5	Number of wheels front (x = driven)					2x	2x	2x	2x	2x	2x	2x	2x	2x
	3.5.1	Number of wheels rear (x = driven)					2	2	2	2	2	2	2	2	2
	3.6	Track width, front	b ₁₀ mm				984	984	984	984	984	984	984	954	954
	3.7	Track width, rear	b ₁₁ mm				920	920	920	920	920	920	920	920	920
Basic dimensions	4.1	Tilt Mast/Fork carriage, forward					°	6	6	6	6	6	6	6	6
	4.1.1	Tilt Mast/Fork carriage, back					°	10	10	10	10	10	10	10	10
	4.2	Height, mast lowered	h ₁ mm				mm	2175	2175	2175	2175	2175	2175	2175	2175
	4.3	Free lift	h ₂ mm				mm	160	160	160	160	160	160	160	160
	4.4	Lift	h ₃ mm				mm	3020	3020	3020	3020	3020	3020	2820	2820
	4.5	Height, mast raised	h ₄ mm				mm	3650	3650	3650	3650	3800	3800	3800	3700
	4.7	Height over overhead guard (cab)	h ₆ mm				mm	2190	2190	2190	2190	2190	2190	2195	2195
	4.8	Seat height/stand height rel. to SIP	h ₇ mm				mm	1074	1074	1074	1074	1074	1074	1074	1074
	4.12	Coupling height	h ₁₀ mm				mm	425	425	425	425	425	425	425	425
	4.19	Overall length	l ₁ mm				mm	3570	3570	3570	3600	3600	3705	3705	3770
	4.20	Length including fork backs	l ₂ mm				mm	2570	2570	2570	2600	2600	2705	2705	2770
	4.21	Overall width	b ₁ mm				mm	1180	1180	1180	1180	1180	1180	1180	1194
	4.22	Fork thickness	s mm				mm	40	40	40	40	50	50	50	50
	4.22.1	Fork width	e mm				mm	100	100	100	100	100	100	120	100
	4.22.2	Fork length	l mm				mm	1000	1000	1000	1000	1000	1000	1000	1000
	4.23	Fork carriage ISO 2328, Class/Form A, B						Kl. II/Form A	Kl. II/Form A	Kl. II/Form A	Kl. II/Form A	Kl. II/Form A	Kl. II/Form A	Kl. II/Form A	Kl. II/Form A
	4.24	Fork carriage width	b ₃ mm				mm	1040	1040	1040	1040	1100	1100	1100	1100
	4.31	Floor clearance under mast, laden	m ₁ mm				mm	125	125	125	125	125	125	125	125
	4.32	Floor clearance, centre of wheel-base	m ₂ mm				mm	150	150	150	150	150	150	150	150
	4.33	Working aisle - 1000 x 1200 pallet crosswise	A _{st} mm				mm	3912	3912	3912	3942	3942	4037	4037	4127
	4.34	Working aisle - 800 x 1200 pallet lengthways	A _{st} mm				mm	4112	4112	4112	4142	4142	4237	4237	4327
	4.35	Turning radius	W _a mm				mm	2282	2282	2282	2312	2312	2387	2387	2477
	4.36	Smallest pivot point distance	b ₁₃ mm				mm	584	584	584	584	584	584	584	584
Performance	5.1	Travel speed laden					km/h	21	21	21	21	21	21	21	21
	5.1.1	Travel speed unladen					km/h	21	21	21	21	21	21	21	21
	5.2	Hoist speed laden					m/s	0,51	0,58	0,53	0,51	0,58	0,48	0,47	0,48
	5.2.1	Hoist speed unladen					m/s	0,53	0,59	0,55	0,53	0,59	0,55	0,51	0,53
	5.3	Lowering speed laden					m/s	0,60	0,60	0,60	0,60	0,60	0,60	0,60	0,60
	5.3.1	Lowering speed unladen					m/s	0,53	0,53	0,53	0,53	0,53	0,53	0,53	0,53
	5.5	Drawbar pull laden					N	17500	17600	17500	17500	17600	17500	17700	17000
	5.5.1	Drawbar pull unladen					N	12140	12140	12040	12140	12140	12300	12300	13400
	5.7	Max. gradeability laden					%	29	28	29	29	28	29	24	22
	5.7.1	Max. gradeability unladen					%	26	26	26	26	26	23	23	20
	5.9	Acceleration time laden					s	5,2	4,7	5,2	5,2	4,9	5,2	5,3	5,5
	5.9.1	Acceleration time unladen					s	4,6	4,3	4,6	4,6	4,3	4,6	4,5	4,9
	5.10	Service brake						electr./hydr.	electr./hydr.	electr./hydr.	electr./hydr.	electr./hydr.	electr./hydr.	electr./hydr.	electr./hydr.
Engine	7.1	Engine manufacturer						VW	VW	VW	VW	VW	VW	VW	VW
	7.1.1	Type						BXT	CBHA	BEF	BXT	CBHA	BEF	CBHA	BEF
	7.2	Engine rating to ISO 1585					kW	30	44	36	30	44	30	38	38
	7.2.1	Additional power of electrical energy storage					kW					8		8	
	7.3	Nenndrehzahl					1/min	2600	2600	2600	2600	2600	2600	2600	2600
	7.4	No. of cylinders						4	4	4	4	4	4	4	4
	7.4.1	Swept volume					cm³	1900	2000	2000	1900	2000	2000	1900	2000
	7.5	Fuel consumption to VDI Cycle (60 runs/h)					l/h kg/h	2,4	2,9	2,5	3,1	2,6	3,3	2,9	3,5
	7.9	On-board voltage					V	12	12	12	12	12	12	12	12
Miscellaneous	8.1	Drive control						Diesel-electric	Diesel-electric	Diesel-electric	Diesel-electric	Diesel-electric	Diesel-electric	Diesel-electric	Diesel-electric
	10.1	Working pressure for attachments					bar	250	250	250	250	250	250	250	250
	10.2	Oil volume for attachments					l/min	30	30	30	30	30	30	30	30
	10.4	Volume fuel tank					l/kg	58	58	11	58	58	11	58	11
	10.7	Sound pressure level L _{pa2} ¹ (driver's seat)					dB (A)	<77	<77	<77	<77	<77	<77	<76	<77
	10.7.1	Sound power level LWAZ (work cycle)					dB (A)	<100	<99	<97	<100	<99	<100	<97	<97
		Body vibrations in accordance with EN 13059					m/s ²	0,58	0,58	0,58	0,58	0,58	0,58	0,58	0,58
	10.8	Towing coupler, Type/Model DIN						Pin	Pin	Pin	Pin	Pin	Pin	Pin	Pin

¹ With reduced rated capacity and/or limited lift height.

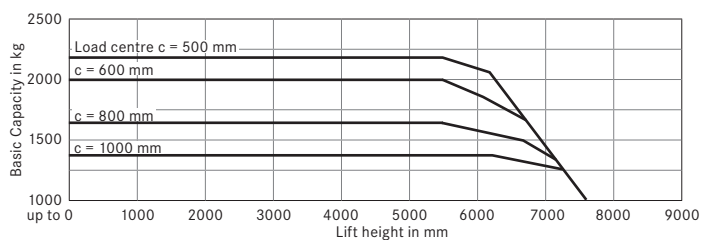


				Tele mast		HiLo mast		Triplex mast	
RX 70-22/25	Rated lift	h ₃	mm	2320-5120		2500-4800		3580-5080	5230-7780
	Overall height	h ₁	mm	1825-3225		1825-2975		1825-2325	2375-3225
	Free lift Form A	h ₂	mm	160		1240-2390		1240-1740	1790-2640
	Free lift Form B	h ₂	mm	160		1195-2345		1195-1695	1745-2595
	Greatest height Form A	h ₄	mm	2950-5750		3090-5250		4185-5685	5835-8385
	Greatest height Form B	h ₄	mm	2980-5780		3160-5280		4255-5755	5905-8455
	Forward tilt	a	°	6		6		6	
	Back tilt	b	°	10 (with front screen 8)		8		8	
	Load distance	x	mm	430		430		455	
	Tyres	v/h		23 x 9-10 // 21 x 8-9		23 x 9-10 // 21 x 8-9		23 x 9-10 // 21 x 8-9	
RX 70-22	Greatest width (dual tyres)	B	mm	1180 (dual 1722)		1180 (dual 1722)		1280 (dual 1722)	
	Overall length	L ₂	mm	2570		2570		2595	
	Working aisle width	A _{st}	mm	(1000 x 1200) 3912 // (1200 x 800) 4112		(1000 x 1200) 3937 // (1200 x 800) 4137		(1000 x 1200) 3937 // (1200 x 800) 4137	
	Track	v/h	mm	984/920 (dual = 1220/920)		984//920 (dual = 1220/920)		1048//920 (dual = 1220/920)	
RX 70-25	Overall length	L ₂	mm	2600		2600		2625	
	Working aisle width	A _{st}	mm	(1000 x 1200) 3942 // (1200 x 800) 4142		(1000 x 1200) 3967 // (1200 x 800) 4167		(1000 x 1200) 3967 // (1200 x 800) 4167	
	Track	v/h	mm	984/920 (dual = 1220/920)		984//920 (dual = 1220/920)		1048//920 (dual = 1220/920)	
RX 70-30				Tele mast		HiLo mast		Triplex mast	
	Rated lift	h ₃	mm	2320-5120		2390-4690		3430-7630	
	Overall height	h ₁	mm	1825-3225		1825-2975		1825-3225	
	Free lift Form A	h ₂	mm	160		1190-2340		1190-2590	
	Free lift Form B	h ₂	mm	160		1045-2195		1045-2445	
	Greatest height Form A	h ₄	mm	3100-5900		3080-5380		4110-8310	
	Greatest height Form B	h ₄	mm	3130-5930		3200-5500		4275-8475	
	Forward tilt	a	°	6		6		6	
	Back tilt	b	°	10 (with front screen 8)		8		8	
RX 70-35	Load distance	x	mm	450		450		475	
	Tyres	v/h		23 x 9-10 (23 x 10-12) // 21 x 8-9		23 x 10-12 // 21 x 8-9		23 x 10-12 // 21 x 8-9	
	Greatest width (dual tyres)	B	mm	1180 (1194) (dual 1722)		1180 (1194) (dual 1722)		1280 (dual 1722)	
	Overall length	L ₂	mm	2705		2705		2730	
	Working aisle width	A _{st}	mm	(1000 x 1200) 4037 // (1200 x 800) 4237		(1000 x 1200) 4062 // (1200 x 800) 4262		(1000 x 1200) 4062 // (1200 x 800) 4262	
	Track	v/h	mm	984(1048)/920 (dual = 1220/920)		984(1048)/920 (dual = 1220/920)		1048/920 (dual = 1220/920)	
				Tele mast		HiLo mast		Triplex mast	
	Rated lift	h ₃	mm	2120-4920		2190-4290		3130-7330	
	Overall height	h ₁	mm	1825-3225		1825-2875		1825-3225	
RX 70-35	Free lift Form A	h ₂	mm	160		1090-2140		1090-2590	
	Free lift Form B	h ₂	mm	160		1045-2095		1045-2445	
	Greatest height Form A	h ₄	mm	3000-5800		2955-5055		3810-8010	
	Greatest height Form B	h ₄	mm	3030-5830		3000-5100		3975-8175	
	Forward tilt	a	°	6		6		6	
	Back tilt	b	°	10 (with front screen 8)		8		8	
	Load distance	x	mm	450		450		475	
	Tyres	v/h		23 x 10-12 // 21 x 8-9		23 x 10-12 // 21 x 8-9		23 x 10-12 // 21 x 8-9	
	Greatest width (dual tyres)	B	mm	1194 (dual 1722)		1194 (dual 1722)		1280 (dual 1722)	
	Overall length	L ₂	mm	2770		2770		2795	
RX 70-35	Working aisle width	A _{st}	mm	(1000 x 1200) 4127 // (1200 x 800) 4327		(1000 x 1200) 4152 // (1200 x 800) 4352		(1000 x 1200) 4152 // (1200 x 800) 4352	
	Track	v/h	mm	1048/920 (dual = 1220/920)		1048/920 (dual = 1220/920)		1048/920 (dual = 1220/920)	

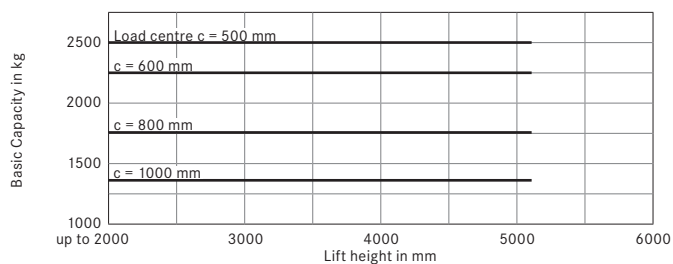
Basic Capacities RX 70-22 Tele/Full free lift HiLo mast



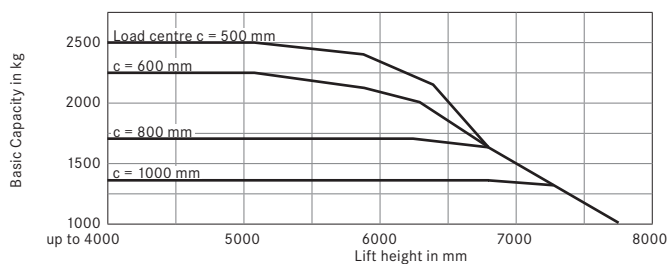
Basic Capacities RX 70-22 Triplex mast



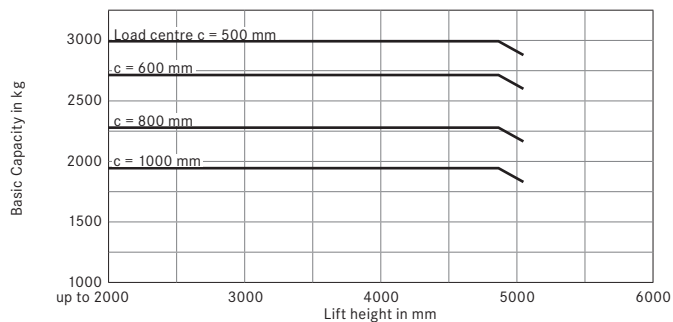
Basic Capacities RX 70-25 Tele/Full free lift HiLo mast



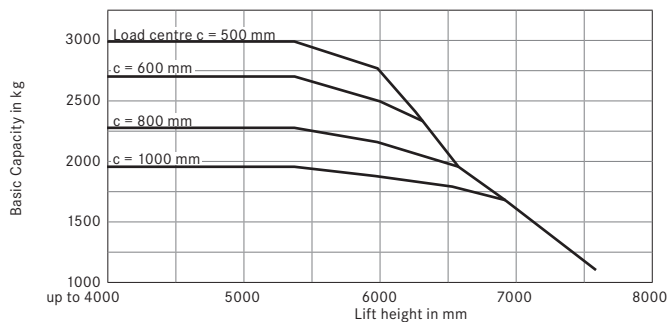
Basic Capacities RX 70-25 Triplex mast



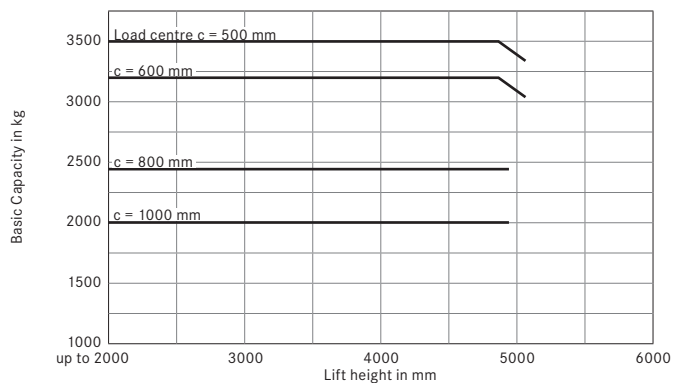
Basic Capacities RX 70-30 Tele/Full free lift HiLo mast



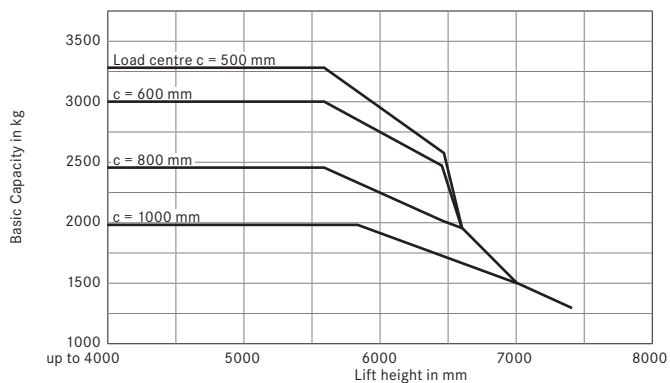
Basic Capacities RX 70-30 (7323 and 7327) Triplex mast



Basic Capacities RX 70-35 Tele/Full free lift HiLo mast



Basic Capacities RX 70-35 Triplex mast



Overall concept:

Engine powered four wheeled counterbalance forklift truck with front wheel drive.

The overall height of the truck supplied as standard is suitable for standard 8'6" containers.

Drive.

- Engine-electric drive with hybrid technology.
- Modern diesel and gas engines with 3-phase generator.
- Gas truck with regulated 3-way Cat*.
- Drive axle with enclosed 3-phase drive motor.
- Wear-free multi-disc brake running in oil bath.
- Hydraulic engine fan.

Hybrid trucks*

- Diesel-electric drive with recuperation of brake energy and storage of the energy in an electric energy storage system (Ultracaps)
- Use of the stored energy to accelerate the truck

Ergonomics.

- Generously laid out driver's workplace.
- High driver comfort and operating convenience due to optimal arrangement of all controls.
- Excellent visibility to all sides.

Safety.

- Low truck centre of gravity and an articulating steer axle for the best stability.
- High residual capacities even at high lifts.
- Excellent driving stability around bends - no electronic aids required.

Environment.

- Very low fuel consumption in all types of work cycles
- Low emissions meeting directive 97/68/EG level 3a

Hybrid trucks*

- Eco-friendly and resource-saving hybrid drive
- Reduction of the conceptually low fuel consumption by another 20% per hour of operation
- Reduction of CO₂ emissions
- Reduction of noise emission by reducing the engine speed when lifting and driving

Service.

- Long maintenance interval - 1000 operating hours.
- Quick fault identification in the event of damage due to computerised diagnostics.
- Optimal accessibility for maintenance.

*Standard or optional equipment

Technical features:

Driver's workplace.

- Low, easy entry step.
- Long hand grip on overhead guard for different gripping heights.
- Large footwell with vibration inhibiting floor covering plus automotive arrangement of the pedals.
- Hydraulic servo steering with small steering wheel, ergonomic off-centre position, offset to the left.
- Narrow steering column without cumbersome display instruments.
- Central display of the drive direction plus change of drive direction in the field of view.
- Large display and operating unit to the right of the driver's workplace.

Energy saving feature Blue-Q.

- Activation of the Blue-Q efficiency mode by pressing a button on the dashboard
- Energy saving by intelligent optimisation of the drive characteristics without impairing the work under progress
- Intelligent switch-off of electric equipment
- Possible energy saving depending on the application profile and truck equipment up to 10%

Selectable drive parameters.

- Acceleration and braking of the truck can be carried out with just the drive pedal.
- Five drive stages adjustable by the driver.
- Individual setting of speed, acceleration and braking within each drive stage.
- Intelligent drive characteristics with engine speed reduction when the truck has finished accelerating.

Electrical system.

- Designed in modern CAN bus technology.
- 12 Volt electrics.
- High-speed bus for drive unit regulation.
- Dedicated CAN bus for lighting and peripherals.
- Cable sets sheathed in corrugated tubing with water tight plug connectors.

Mast and hydraulics.

- On demand delivery from hydraulic variable displacement pump for the working and steering hydraulics.
- Separation of hoist hydraulics and drive, so no inching required.
- Wide construction, open telescopic mast with and without full free lift and as a Triplex variant.
- Clear view fork carriage with open frame profile.

Additional equipment features (Optional):

Truck equipment.

- Superelastic or pneumatic tyres, single or dual versions.

Engine.

- Gas truck with alternatives of gas bottle or tank.
- Regenerative soot particle filter in the counterweight or as a replaceable filter system.
- Wide core radiator and additional air filter for use in environments containing dust or fibres.

Cab equipment.

- Modular construction cab with front, rear and roof screen.
- Rear mounted damped doors with large opening angles and windows sliding in opposite directions.
- Parallel screen wiper with large wiped area for front and rear screen, with screen washer as standard.
- Rear screen heater as standard.
- Unbreakable exterior and interior mirrors.
- Comfort seat variants with cloth cover, air sprung, seat heater, lumbar support, extended backrest.
- Radio/CD player housed in the interior lining of the overhead guard.

Controls.

- Drive actuated by two pedal controls.
- Actuation of the hydraulic functions by Joystick or Fingertip control.

Electrical equipment and drive control.

- Tempomat.
- Automotive style lighting also approved for use on public highways.
- Working spotlights front and/or rear on the overhead guard.
- Components of the Materialflow Management System (MMS).
- FleetManager™ – Driver identification and control, analysis of truck operating data and accident recorder.
- Camera systems for mast and reversing.

Mast and hydraulics.

- Auxiliary hydraulics for actuating functions on attachments.
- Various fork carriage widths and fork lengths.
- Attachments to suit each load.
- Hydraulic accumulator to damp shocks in the hydraulic system.



Your contact

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