



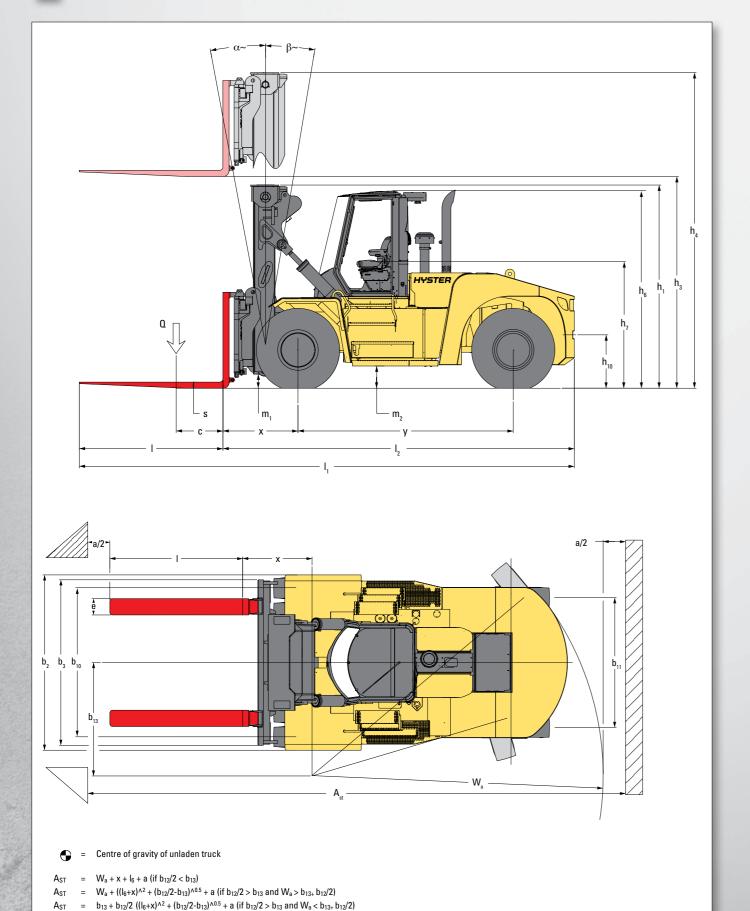
STRONG PARTNERS.
TOUGH TRUCKS.™

H25-32XD SERIES TECHNICAL GUIDE

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DIMENSIONS





	1.1	Mf-t		HYSTER	HYSTER
둹	1-1	Manufacturer			
GENERAL	1-2	Model designation		H25XDS9; H25XD12	H28XD12; H30-32XD(S)12
	1-3	Powertrain / drivetrain		Diesel	Diesel
	7-1	Engine manufacturer / model		Mercedes / OM936	Mercedes / 0M936
	7-1A	EPA / CE compliance		Stage V	Stage V
	7-2	Engine power output according to ISO 1585	kW	180	180
	7-2-1	Engine power output - Peak	kW	180	180
ENGINE	7-3	Rated speed	min ⁻¹	1,800	1,800
	7-3-1	Engine torque @rpm (1/min)	Nm/min ⁻¹	1,000 @ 1200-1600	1,000 @ 1200-1600
	7-4	Number of cylinders / displacement	# / cm ³	6 / 7,698	6 / 7,698
	7-8	Alternator output	Amps	100	100
	7-9	Electrical system voltage	V	24	24
	7-10	Battery voltage, rated capacity	V / Ah	24 / 102	24 / 102
	8-1	Drive control / Transmission	Type / #	Torque Converter	Torque Converter
	1 6-1				
			77 -		
	8-2	Transmission manufacturer / type	Type / #	ZF - 5WG211	ZF - 5WG211
"	8-2 8-4	Transmission manufacturer / type Transmission speeds forward / backward	Type / #	ZF - 5WG211 5/3	ZF - 5WG211 5 / 3
DRIVE	8-2 8-4 8-5	Transmission manufacturer / type Transmission speeds forward / backward Coupling	Type / # # Type	ZF - 5WG211 5 / 3 Torque Converter	ZF - 5WG211 5 / 3 Torque Converter
DRIVE	8-2 8-4 8-5 8-6	Transmission manufacturer / type Transmission speeds forward / backward Coupling Wheel drive / drive axle manufacturer / type	Type / # # Type Type Type Type / #	ZF - 5WG211 5 / 3 Torque Converter Axle Tech PRLC1794W4H	ZF - 5WG211 5 / 3 Torque Converter Axle Tech PRC3806W4H
DRIVE	8-2 8-4 8-5 8-6 8-11	Transmission manufacturer / type Transmission speeds forward / backward Coupling Wheel drive / drive axle manufacturer / type Service brake	Type / # # Type Type Type / # Type	ZF - 5WG211 5 / 3 Torque Converter Axle Tech PRLC1794W4H Oil immersed disc	ZF - 5WG211 5 / 3 Torque Converter Axle Tech PRC3806W4H Oil immersed disc
DRIVE	8-2 8-4 8-5 8-6	Transmission manufacturer / type Transmission speeds forward / backward Coupling Wheel drive / drive axle manufacturer / type	Type / # # Type Type Type Type / #	ZF - 5WG211 5 / 3 Torque Converter Axle Tech PRLC1794W4H	ZF - 5WG211 5 / 3 Torque Converter Axle Tech PRC3806W4H
DRIVE	8-2 8-4 8-5 8-6 8-11	Transmission manufacturer / type Transmission speeds forward / backward Coupling Wheel drive / drive axle manufacturer / type Service brake	Type / # # Type Type Type / # Type	ZF - 5WG211 5 / 3 Torque Converter Axle Tech PRLC1794W4H Oil immersed disc	ZF - 5WG211 5 / 3 Torque Converter Axle Tech PRC3806W4H Oil immersed disc
DRIVE	8-2 8-4 8-5 8-6 8-11	Transmission manufacturer / type Transmission speeds forward / backward Coupling Wheel drive / drive axle manufacturer / type Service brake	Type / # # Type Type Type / # Type	ZF - 5WG211 5 / 3 Torque Converter Axle Tech PRLC1794W4H Oil immersed disc	ZF - 5WG211 5 / 3 Torque Converter Axle Tech PRC3806W4H Oil immersed disc Dry disc on drive axle
DRIVE	8-2 8-4 8-5 8-6 8-11 8-12	Transmission manufacturer / type Transmission speeds forward / backward Coupling Wheel drive / drive axle manufacturer / type Service brake Parking brake	Type / # # Type Type Type Type Type Type Type	ZF - 5WG211 5 / 3 Torque Converter Axle Tech PRLC1794W4H Oil immersed disc Dry disc on drive axle	ZF - 5WG211 5 / 3 Torque Converter Axle Tech PRC3806W4H Oil immersed disc Dry disc on drive axle
	8-2 8-4 8-5 8-6 8-11 8-12	Transmission manufacturer / type Transmission speeds forward / backward Coupling Wheel drive / drive axle manufacturer / type Service brake Parking brake Operating pressure for attachments	Type / # # Type Type Type Type Type Type Type Type	ZF - 5WG211 5/3 Torque Converter Axle Tech PRLC1794W4H Oil immersed disc Dry disc on drive axle	ZF - 5WG211 5 / 3 Torque Converter Axle Tech PRC3806W4H Oil immersed disc Dry disc on drive axle
MISC DRIVE	8-2 8-4 8-5 8-6 8-11 8-12	Transmission manufacturer / type Transmission speeds forward / backward Coupling Wheel drive / drive axle manufacturer / type Service brake Parking brake Operating pressure for attachments Oil volume for attachments	Type / # # Type Type Type Type Type Type Type Type	ZF - 5WG211 5/3 Torque Converter Axle Tech PRLC1794W4H Oil immersed disc Dry disc on drive axle	ZF - 5WG211 5 / 3 Torque Converter Axle Tech PRC3806W4H Oil immersed disc Dry disc on drive axle
	8-2 8-4 8-5 8-6 8-11 8-12 10-1 10-2 10-3	Transmission manufacturer / type Transmission speeds forward / backward Coupling Wheel drive / drive axle manufacturer / type Service brake Parking brake Operating pressure for attachments Oil volume for attachments Hydraulic tank capacity	Type / # # Type Type Type Type Type Type Type Type	ZF - 5WG211 5/3 Torque Converter Axle Tech PRLC1794W4H Oil immersed disc Dry disc on drive axle	ZF - 5WG211 5 / 3 Torque Converter Axle Tech PRC3806W4H Oil immersed disc Dry disc on drive axle

Specifications are affected by the condition of the vehicle and how it is equipped, as well as the nature and condition of the operating area. Inform your dealer of the nature and condition of the intended operating area when purchasing your $\mbox{{\sc Hyster}}^{\mbox{\scriptsize B}}$ truck.

- (1) Unladen with new tyres
- (2) Bottom of forks
 (3) Full suspension seat in depressed position
- (4) Length without carriage
- (5) Forks in alternative position
- (6) Distance centre truck to centre of internal turning radius
- (7) Gradeability figures are provided for comparison of tractive performance, but are not intended to endorse the operation of vehicle on the stated inclines. Follow instructions in the operating manual regarding operation on inclines.

All capacities are according to EN1551.

MAST TABLE:

(#) Note: Carriage with ZERO IN-TO-IN forkpositioning not recommended in combination with liftheights above 6200 mm



C C Safety: This truck conforms to the current EU and ANSI requirements.

Care must be exercised when handling elevated loads. Operators must be trained and must read, understand and follow the instructions contained in the Operating Manual.

All values are nominal values and they are subject to tolerances. For further information, please contact the manufacturer.

Hyster products are subject to change without notice.

Lift trucks illustrated may feature optional equipment.

Values may vary with alternative configurations.

CERTIFICATION: Hyster lift trucks meet the design and construction requirements of B56.1-1969, per OSHA Section 1910.178(a)(2), and also comply with the B56.1 revision in effect at time of manufacture. Certification of compliance with the applicable ANSI standards appears on the lift truck. Performance specifications are for a truck equipped as described under Standard Equippent on this Technical Guide. Performance specifications are affected by the condition of the vehicle and how it is equipped, as well as by the nature, condition of the operating area, proper service and maintenance of the vehicle. If these specifications are critical, the proposed application should be discussed with your dealer.

NOTE: Specifications, unless otherwise listed, are for a standard truck without optional equipment.

Specification data is based on VDI 2198.

 $= \quad \mbox{Minimum operating clearance} = 10\% \mbox{ of } A_{ST}$

 load lengths b₁₂ = load width

(VDI standard = 200 mm BITA recommendation = 300 mm)

► H25XDS9 / H25XD12 / H28XD12 SPECIFICATIONS

	1-1	Manufacturer			HYS	TED	HYS	TED	HYS	TED
	1-2	Model designation			H25>		H25X		H28>	
	1-3	Powertrain / drivetrain			Die		Die		Die	
GENERAL	1-4	Operator type	_		Sea		Sea		Sea	
(E)	1-5	Load capacity at load center, nominal	Q	kg	25,1		25,0		28,0	
	1-6	Load center distance	С	mm	90	00	1,2	00	1,2	
	1-8	Load distance	Х	mm	1,1	89	1,1	89	1,2	74
	1-9	Wheelbase	у	mm	3,6	55	4,3	15	4,3	15
	2-1	Service weight		kg	37,	985	38,4	156	45,6	616
¥	2-2	Axle loading with load, front / rear		kg	58,534	4,451	58,205	5,250	67,530	6,086
	2-3	Axle loading without load, front / rear		kg	19,245	18,739	19,364	19,091	23,476	22,139
	3-1	Tyre type			Pneui	matic	Pneur	natic	Pneur	matic
	3-2	Tyre size, front			14.00 - 2	24 28PR	14.00 - 2	24 28PR	16.00 - 2	25 32PR
S.	3-3	Tyre size, rear			14.00 - 2	24 28PR	14.00 - 2	24 28PR	16.00 - 2	25 32PR
WHEELS	3-5	Wheels, number front / rear (x = driven wheels)			x 4	/ 2	x 4	/ 2	x 4	/ 2
	3-6	Tread, front	b ₁₀	mm	2,2		2,2		2,4	
	3-7	Tread, rear	b ₁₁	mm	2,3		2,3		2,3	
	4-1	Mast tilt, forward / backward	α/β	deg	6° /		6° /		6° /	
	4-2	Height, mast lowered (1)	h ₁	mm	4,0		4,0		4,2	
	4-3	Free lift	h ₂	mm	(0,0		(
	4-4	Lift (2)	h ₃	mm	4,2		4,2		4,2	
	4-5	Height, mast extended	h ₄	mm	6,2		6,2		6,3	
	4-7	Cab height (open cab)	h ₆	mm	3,3		3,3		3,4	
	4-7-1	Height of overhead guard (closed cab)			3,4		3,4		3,5	
	4-7-2	Height of overhead guard (closed cab w/ airco)	h ₆	mm mm	3,4		3,4		3,5	
	4-7-2	Height of overhead guard (closed cab w/ arico) Height of overhead guard (closed cab w/ strobe light)	h ₆	mm	3,5		3,4		3,6	
		Height of overhead guard (closed cab w/ strobe right) Height of overhead guard (closed cab w/ work lights)			3,5				3,6	
	4-7-4		h ₆	mm			3,5			
	4-7-5	Height of overhead guard (closed cab w/ airco & strobe light)	h ₆	mm	3,5		3,5		3,6	
	4-8	Seat height relating to SIP (3)	h ₇	mm	2,1		2,1		2,2	
	4-12	Coupling height	h ₁₀	mm	93		93		1,0	
S	4-19	Overall length	I ₁	mm	8,3		8,3		9,0	
	4-20	Length to face of forks (4)	12	mm	5,8		5,8		6,6	
DIMENSIONS	4-21 4-22	Overall width Fork dimensions ISO 2331	b ₂	mm	3,2		3,2		3,4	
	4-22	FOIR dimensions 150 2331	s/e/l	mm	105 / 28		105 / 280 Dual Function		105 / 300 Dual Functio	
	4-23	Fork carriage type			Fork Pos Hook	sitioning type	Fork Pos Hook	itioning type	Fork Pos Hook	itioning type
9	4-24	Fork carriage width	b ₃	mm	3,0		3,0		3,2	
	4-25	Distance over fork arms, minimum / maximum	b ₅	mm	1,430	2,970	1,430	2,970	1,480	3,140
	4-25-1	Distance over fork arms, minimum / maximum (5)	b ₅	mm	880	2,420	880	2,420	930	2,590
8	4-30	Sideshift @ width over forks	b ₈	mm	+/-385	2,200	+/-385	2,200	+/-415	2,310
	4-31	Ground clearance, laden, below mast	m ₁	mm	21		21		22	
	4-32	Ground clearance, centre of wheelbase	m ₂	mm	40		40		50	
8	4-33	Load dimension b ₁₂ × l ₆ crossways		mm	2,400	2,400	2,400	2,400	2,400	2,400
8		Aisle width, without operating clearance	Ast	mm	8,9		9,7		9,8	
8		Aisle width, with 200 mm operating clearance	Ast	mm	9,1		9,9		10,0	
2		Aisle width, with 10% operating clearance	Ast	mm	9,8		10,7		10,8	
2	4-35	Outside turning radius	Wa	mm	5,3		6,1		6,1	
2-	4-36	Internal turning radius (6)	b ₁₃	mm	2,0		2,5		2,5	
	5-1	Travel speed, with / without load		km/h	25	25	25	25	25	25
	5-2	Lifting speed, with / without load backwards		m/s	0.33	0.35	0.33	0.35	0.27	0.29
병	5-2-1	Lifting speed, with 70% load		m/s	0.50		0.3		0.2	
MAN	5-3	Lowering speed with / without load		m/s	0.50	0.50	0.50	0.50	0.50	0.50
PERFORMANCE	5-5	Drawbar pull - 1.6 km/h 1 mph, with / without load		kN	196	201	196	201	198	203
뛢		Drawbar pull - stall, with / without load		kN o/	238	243	238	243	240	245
	5-7	Gradeability - 1.6 km/h 1 mph, with / without load (7)		%	34	34	33	35	28	35
g .	5-7-1	Gradeability - stall, with / without load (7)		%	42	34	41	35	35	35
SI Passeria	5-9	Acceleration time, with / without load		sec	On re	quest	On red	quest	On re	quest

⁽¹⁾ Unladen with new tyres

H30XD9 / H30XD12 / H32XD9 / H32XD12 SPECIFICATIONS

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	1-1	Manufacturer			HYS		HYS		HYS.		HYS	
	1-2	Model designation			H30>		H30X		H32		H32X	
	1-3	Powertrain / drivetrain			Dies		Die		Die		Die	
GENERAL	1-4	Operator type			Seat		Sea		Sea		Sea	
뜅	1-5	Load capacity at load center, nominal	Q	kg	29,7		30,0		31,9		32,0	
	1-6	Load center distance	С	mm	90		1,2		90		1,2	
	1-8	Load distance	Х	mm	1,2		1,2		1,2		1,2	
	1-9	Wheelbase	У	mm	3,93		4,3		3,9		4,8	
	2-1	Service weight		kg	45,3		46,2		45,9		45,8	
	2-2	Axle loading with load, front / rear		kg	69,549	5,477	70,740	5,522	73,096	4,789	71,898	5,970
	2-3	Axle loading without load, front / rear		kg	23,440	21,885	23,540	22,723	23,495	22,441	23,490	22,378
	3-1	Tyre type			Pneun		Pneur		Pneun		Pneur	
ر د	3-2	Tyre size, front			16.00 - 2		16.00 - 2		16.00 - 2		16.00 - 2	
WHEELS	3-3	Tyre size, rear			16.00 - 2		16.00 - 2		16.00 - 2		16.00 - 2	
3	3-5	Wheels, number front / rear (x = driven wheels)			x 4		x 4		x 4		x 4	
	3-6	Tread, front	b ₁₀	mm	2,42		2,4		2,43		2,4:	
	3-7	Tread, rear	b ₁₁	mm	2,3		2,3		2,3		2,3	
	4-1	Mast tilt, forward / backward	α/β	deg	6°/		6° /		6° /		6° /	
	4-2	Height, mast lowered (1)	h ₁	mm	4,22		4,2		4,2		4,2	
	4-3	Free lift	h ₂	mm	0		0		0		0	
	4-4	Lift (2)	h ₃	mm	4,20		4,2		4,2		4,2	
	4-5 4-7	Height, mast extended	h ₄	mm	6,3		6,3		6,3		6,3	
	4-7	Cab height (open cab)	h ₆	mm	3,49		3,4		3,4		3,4	
	4-7-1	Height of overhead guard (closed cab) Height of overhead guard (closed cab w/ airco)	h ₆	mm	3,5		3,5		3,5		3,5 3,5	
	4-7-2 4-7-3		h ₆	mm	3,5		3,5		3,5			
	4-7-3 4-7-4	Height of overhead guard (closed cab w/ strobe light)	h ₆	mm	3,6		3,6		3,6 3,6		3,6	
		Height of overhead guard (closed cab w/ work lights)	h ₆	mm	3,6		3,671 3,649				3,6	
	4-7-5	Height of overhead guard (closed cab w/ airco & strobe light)	h ₆	mm	3,64				3,6		3,6	
	4-8	Seat height relating to SIP (3)	h ₇	mm	2,29		2,2		2,2		2,2 1,0	
	4-12 4-19	Coupling height	h ₁₀	mm	1,03 8,68		1,0		1,0			
2	4-19 4-20	Overall length Length to face of forks (4)		mm	6,2		9,066 6,626		8,686 6,246		9,576 7,136	
SION	4-20 4-21	Overall width	b ₂	mm	3,43		3,4		3,4		7,136 3,430	
DIMENSIONS	4-21	Fork dimensions ISO 2331	s/e/l	mm	105 / 300		105 / 300		105 / 300		105 / 300	
	4-23	Fork carriage type	S/e/I		Dual Function Fork Posi	n - Sideshift itioning	Dual Function Fork Pos	n - Sideshift sitioning	Dual Function Fork Pos	n - Sideshift itioning	Dual Function Fork Pos	n - Sideshif
	4.04	Fork considers width	h		Hook		Hook		Hook		Hook	
	4-24	Fork carriage width	b ₃	mm	3,20		3,2		3,2		3,2	
	4-25 4-25-1	Distance over fork arms, minimum / maximum Distance over fork arms, minimum / maximum (5)	b ₅	mm mm	1,480 930	3,140 2,590	1,480 930	3,140 2,590	1,480 930	3,140 2,590	1,480 930	3,140 2,590
	4-20-1	Sideshift @ width over forks	b ₈	mm	+/-415	2,310	+/-415	2,310	+/-415	2,310	+/-415	2,310
	4-30	Ground clearance, laden, below mast	m ₁	mm	22		22		22		22	
	4-32	Ground clearance, laden, below mast	m ₂	mm	50		50		50		50	
		Load dimension b ₁₂ × I ₆ crossways	2	mm	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400
		Aisle width, without operating clearance	Ast	mm	9,30		9,8		9,3		10,5	
		Aisle width, with 200 mm operating clearance	Ast	mm	9,50		10,0		9,5		10,7	
		Aisle width, with 10% operating clearance	Ast	mm	10,3		10,8		10,3		11,5	
	4-35	Outside turning radius	Wa	mm	5,69		6,1		5,6		6,8	
	4-36	Internal turning radius (6)	b ₁₃	mm	2,2		2,5		2,2		3,0	
	5-1	Travel speed, with / without load		km/h	25	25	25	25	25	25	25	25
	5-2	Lifting speed, with / without load backwards		m/s	0.27	0.29	0.27	0.29	0.27	0.29	0.27	0.29
	5-2-1	Lifting speed, with 70% load		m/s	0.2		0.2		0.2		0.2	
ğ	5-3	Lowering speed with / without load		m/s	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
	5-5	Drawbar pull - 1.6 km/h 1 mph, with / without load		kN	198	203	198	203	197	203	197	203
PERFORMANCE	5-5-1	Drawbar pull - stall, with / without load		kN	240	245	240	245	240	245	240	245
Ï	5-7	Gradeability - 1.6 km/h 1 mph, with / without load (7)		%	28	35	27	35	27	34	27	36
	5-7-1	Gradeability - stall, with / without load (7)		%	35	35	34	35	33	34	33	36

⁽¹⁾ Unladen with new tyres

⁽²⁾ Bottom of forks

⁽³⁾ Full suspension seat in depressed position

⁽⁴⁾ Length without carriage

⁽⁵⁾ Forks in alternative position

⁽⁶⁾ Distance centre truck to centre of internal turning radius

⁽⁷⁾ Gradeability figures are provided for comparison of tractive performance, but are not intended to endorse the operation of vehicle on the stated inclines.

Follow instructions in the operating manual regarding operation on inclines.

⁽²⁾ Bottom of forks

⁽³⁾ Full suspension seat in depressed position

⁽⁴⁾ Length without carriage

⁽⁵⁾ Forks in alternative position

⁽⁶⁾ Distance centre truck to centre of internal turning radius

⁽⁷⁾ Gradeability figures are provided for comparison of tractive performance, but are not intended to endorse the operation of vehicle on the stated inclines. Follow instructions in the operating manual regarding operation on inclines.

MAST AND CAPACITY INFORMATION

	Lift Lower		Free lift		Integrated coil ram wit	h +/-250 mm side shift	Pin type side shift carrige mounted coil ram			
	height h ₃ (mm)	height h ₁ (mm)	height h ₂ (m)	height h ₄ (mm)	Capacity @ 1.200 mm load centre (kg)	Mast tilt (forward/ backward) (°)	Capacity @ 1.200 mm load centre	Mast tilt (forward/ backward)		
H25XDS9	2,745	5,169	2,745	5,169	30,000	6 / 10	25,000	6 / 10		
H25XD12	2,745	5,169	2,745	5,169	30,000	6 / 10	25,000	6 / 10		
H28XD12	2,745	5,265	2,745	5,265	36,000	6 / 10	32,000	6 / 10		
H30XDS9	2,745	5,265	2,745	5,265	36,000	6 / 10	32,000	6 / 10		
H30XD12	2,745	5,265	2,745	5,265	36,000	6 / 10	32,000	6 / 10		
H32XDS9	2,745	5,265	2,745	5,265	36,000	6 / 10	32,000	6 / 10		
H32XD12	2,745	5,265	2,745	5,265	36,000	6 / 10	32,000	6 / 10		

H25XDS9 RATED CAPACITY KG @ 900 MM AND @ 1200 LOAD CENTRE

	Lift		Free lift			Extended	Dual Function S without 2	Side Shift & Fork Pos ERO IN-TO-IN forkpo	sitiong carriage ositioning	Dual Function S with ZE	Side Shift & Fork Pos RO IN-TO-IN forkpos	itiong carriage itioning
	height h ₃ (mm)	height h ₁ (mm)	height h ₂ (m)	height h ₄ (mm)	Capacity @ 900 mm load centre (kg)	Mast tilt (forward/ backward) (°)	Capacity @ 1.200 mm load centre (kg)	Capacity @ 900 mm load centre (kg)	Mast tilt (forward/ backward) (°)	Capacity @ 1.200 mm load centre (kg)		
	3,155	3,491	0	5,016	25,000	6 / 10	22,700	25,000	6 / 10	22,700		
_	3,760	3,794	0	5,621	25,000	6 / 10	22,640	25,000	6 / 10	22,640		
JE NFL	4,370	4,099	0	6,231	25,000	6 / 10	22,600	25,000	6 / 10	22,600		
2 STAGE	4,980	4,404	0	6,841	25,000	6 / 10	22,540	25,000	6 / 10	22,540		
2	6,200	5,014	0	8,061	25,000	6 / 10	22,400	25,000	6 / 10	22,400		
	9,250	6,539	0	11,111	23,720	6/6	21,000	20,520 (#)	6/6	21,000 (#)		

H25XD12 RATED CAPACITY KG @1200 LOAD CENTRE

	Lift Lowered					& Fork Positiong carriage O-IN forkpositioning	Dual Function Side Shift & Fork Positiong carriage with ZERO IN-TO-IN forkpositioning		
	height h ₃ (mm)	height h ₁ (mm)	height h ₂ (m)	height h ₄ (mm)	Mast tilt (forward/ backward) (°)	Capacity @ 1.200 mm load centre (kg)	Mast tilt (forward/ backward) (°)	Capacity @ 1.200 mm load centre (kg)	
ı	3,155	3,491	0	5,016	6 / 10	22,700	6 / 10	22,700	
	3,760	3,794	0	5,621	6 / 10	22,640	6 / 10	22,640	
H H	4,370	4,099	0	6,231	6 / 10	22,600	6 / 10	22,600	
STAGE	4,980	4,404	0	6,841	6 / 10	22,540	6 / 10	22,540	
2	6,200	5,014	0	8,061	6 / 10	22,400	6 / 10	22,400	
	9,250	6,539	0	11,111	6/6	21,000	6/6	21,000 (#)	

H28XD12 RATED CAPACITY KG @ 900 MM AND @1200 LOAD CENTRE

		Lift	Lowered	ight height	Extended height	Dual Function S without Z	Side Shift & Fork Pos ZERO IN-TO-IN forkpo	itiong carriage ositioning	Dual Function Side Shift & Fork Positiong carriage with ZERO IN-TO-IN forkpositioning			
		height h ₃ (mm)	height h ₁ (mm)	height h ₂ (m)	height h ₄ (mm)	Capacity @ 900 mm load centre (kg)	Mast tilt (forward/ backward) (°)	Capacity @ 1.200 mm load centre (kg)	Capacity @ 900 mm load centre (kg)	Mast tilt (forward/ backward) (°)	Capacity @ 1.200 mm load centre (kg)	
		2,850	3,464	0	4,836	31,860	6 / 10	28,000	31,860	6 / 10	28,000	
ž		3,155	3,616	0	5,141	31,860	6 / 10	28,000	31,860	6 / 10	28,000	
	_	3,760	3,919	0	5,746	31,860	6 / 10	28,000	31,860	6 / 10	28,000	
	JE NFL	4,370	4,224	0	6,356	31,860	6 / 10	28,000	31,860	6/10	28,000	
	STAGE	6,200	5,139	0	8,186	31,860	6 / 10	28,000	31,860	6 / 10	28,000	
	2	6,810	5,444	0	8,716	31,700	6 / 10	27,860	31,700	6 / 10	27,860	
		9,250	7,174	0	11,746	30,920	6/6	27,180	30.920 (#)	6/6	27,180 (#)	
		9,860	7,479	0	12,356	30,600	6/6	26,900	29.660 (#)	6/6	26,900 (#)	

MAST AND CAPACITY INFORMATION <

H30XD9 RATED CAPACITY KG @ 900 MM AND @1200 LOAD CENTRE

Lift height		Lowered height	Free lift	Extended	Dual Function S without Z	Side Shift & Fork Pos ZERO IN-TO-IN forkpo	sitiong carriage ositioning	Dual Function Side Shift & Fork Positiong carriage with ZERO IN-TO-IN forkpositioning			
	height h ₃ (mm)	h ₁ (mm) h ₂ (m) h ₄ (m		height h ₄ (mm)	Capacity @ 900 mm load centre (kg)	Mast tilt (forward/ backward) (°)	Capacity @ 1.200 mm load centre (kg)	Capacity @ 900 mm load centre (kg)	Mast tilt (forward/ backward) (°)	Capacity @ 1.200 mm load centre (kg)	
	2,850	3,464	0	4,836	30,000	6 / 10	27,000	30,000	6 / 10	27,000	
	3,155	3,616	0	5,141	30,000	6 / 10	27,000	30,000	6 / 10	27,000	
교	3,760	3,919	0	5,746	30,000	6 / 10	26,940	30,000	6 / 10	26,940	
STAGE NFL	4,370	4,224	0	6,356	30,000	6 / 10	26,880	30,000	6 / 10	26,880	
STA(6,200	5,139	0	8,186	30,000	6 / 10	26,620	30,000	6 / 10	26,620	
2	6,810	5,444	0	8,716	29,840	6 / 10	26,420	29,840 (#)	6 / 10	26,420 (#)	
	9,250	7,174	0	11,746	28,880	6/6	25,360	28,880 (#)	6/6	25,360 (#)	
	9,860	7,479	0	12,356	28,580	6/6	25,120	28,580 (#)	6/6	25,120 (#)	

H30XD12 RATED CAPACITY KG @ 900 MM AND @1200 LOAD CENTRE

	Lift	height height	height height	Extended		Side Shift & Fork Pos ZERO IN-TO-IN forkpo		Dual Function Side Shift & Fork Positiong carriage with ZERO IN-TO-IN forkpositioning			
	height h ₃ (mm)	height h ₁ (mm)	height h ₂ (m)	height h ₄ (mm)	Capacity @ 900 mm load centre (kg)	Mast tilt (forward/ backward) (°)	Capacity @ 1.200 mm load centre (kg)	Capacity @ 900 mm load centre (kg)	Mast tilt (forward/ backward) (°)	Capacity @ 1.200 mm load centre (kg)	
	2,850	3,464	0	4,836	32,000	6 / 10	30,000	32,000	6 / 10	30,000	
	3,155	3,616	0	5,141	32,000	6 / 10	30,000	32,000	6 / 10	30,000	
털	3,760	3,919	0	5,746	32,000	6 / 10	30,000	32,000	6 / 10	30,000	
三岩	4,370	4,224	0	6,356	32,000	6 / 10	30,000	32,000	6 / 10	30,000	
2 STAGE	6,200	5,139	0	8,186	32,000	6 / 10	30,000	32,000	6 / 10	30,000	
2	6,810	5,444	0	8,716	31,840	6 / 10	29,840	31,840	6 / 10	29,840	
	9,250	7,174	0	11,746	31,100	6/6	29,000	31,100 (#)	6/6	29,000 (#)	
	9,860	7,479	0	12,356	30,880	6/6	29,680	29,840 (#)	6/6	28,720 (#)	

H32XD9 RATED CAPACITY KG @ 900 MM AND @1200 LOAD CENTRE

	Lift Lowered		Lowered Free lift height	Extended		Side Shift & Fork Pos ZERO IN-TO-IN forkp		Dual Function Side Shift & Fork Positiong carriage with ZERO IN-TO-IN forkpositioning			
	height h ₃ (mm)	height h ₁ (mm)	height h ₂ (m)	height h ₄ (mm)	Capacity @ 900 mm load centre (kg)	Mast tilt (forward/ backward) (°)	Capacity @ 1.200 mm load centre (kg)	Capacity @ 900 mm load centre (kg)	Mast tilt (forward/ backward) (°)	Capacity @ 1.200 mm load centre (kg)	
	2,850	3,464	0	4,836	32,000	6 / 10	28,680	32,000	6 / 10	28,680	
	3,155	3,616	0	5,141	32,000	6 / 10	28,640	32,000	6 / 10	28,640	
볼	3,760	3,919	0	5,746	32,000	6 / 10	28,560	32,000	6 / 10	28,560	
三岩	4,370	4,224	0	6,356	32,000	6 / 10	28,500	32,000	6 / 10	28,500	
STAGE	6,200	5,139	0	8,186	32,000	6 / 10	28,240	32,000	6 / 10	28,240	
2	6,810	5,444	0	8,716	31,840	6 / 10	28,040	31,840	6 / 10	28,040	
	9,250	7,174	0	11,746	30,020	6/6	26,360	30,020 (#)	6/6	26,360 (#)	
	9,860	7,479	0	12,356	29,420	6/6	26,160	29,420 (#)	6/6	26,120 (#)	

H32XD12 RATED CAPACITY KG @1200 LOAD CENTRE

	Lift	Lowered	Free lift height	Extended		& Fork Positiong carriage O-IN forkpositioning	Dual Function Side Shift with ZERO IN-TO-	& Fork Positiong carriage IN forkpositioning
	height h ₃ (mm)	height h ₁ (mm)	height h ₂ (m)	height h ₄ (mm)	Mast tilt (forward/ backward) (°)	Capacity @ 1.200 mm load centre (kg)	Mast tilt (forward/ backward) (°)	Capacity @ 1.200 mm load centre (kg)
	2,850	3,464	0	4,836	6 / 10	32,000	6 / 10	32,000
	3,155	3,616	0	5,141	6 / 10	32,000	6 / 10	32,000
펄	3,760	3,919	0	5,746	6 / 10	32,000	6 / 10	32,000
뽕	4,370	4,224	0	6,356	6 / 10	32,000	6 / 10	32,000
STAGE	6,200	5,139	0	8,186	6 / 10	32,000	6 / 10	32,000
2	6,810	5,444	0	8,716	6 / 10	32,000	6 / 10	32,000
	9,250	7,174	0	11,746	6 / 6	31,020	6 / 6	31,020
	9,860	7,479	0	12,356	6/6	30,720	6 / 6	29,820

> FEATURES AND OPTIONS

Travel speed limiter - unconditional and customer adjustable - pre-set to 16km/h 14.00 - 24 28 Pneumatic bias drive and steer tyres (H25XD/S) 14.00 - R24 Michelin XZM radial drive and steer tyres (H25XD/S) 14.00 - R24 Trelleborg radial drive and steer tyres (H25XD/S) 16.00 - R25 32PR Pneumatic bias ply drive and steer tires (H28-32XD/S) 16.00 - 25 32PR Continental straddlemaster bias ply drive and steer tires (H28-32XD/S) 16.00 - R25 Michelin XZM radial drive and steer tyres (H28-32XD/S) Spare wheels and tyres LIFT STD OPT Single stage MONO mast 2 stage non-free lift mast X 2 stage full free lift mast X Mast tilt 6° forward / 10° back Mast tilt 6° forward / 10° back Mast tilt 5° forward / 10° back Tilt indicator, mechanically acting Hydraulic accumulator Pressure compensated lowering			
Heavy duty air intake Raised air intake pre-filter X X	PERFORMANCE	STD	ОРТ
Raised air intake - pre-filter Hydrodynamic 5-speed ZF WG211 transmission X Axle Tech PRLC1794W4H drive axle with oil-immersed brakes X H262XD/S) Axle Tech PRC2806W4H drive axle with oil-immersed brakes X H278-32ZD/S) DRIVE STD OPT Travel speed limiter - unconditional and customer adjustable - pre-set to 16km/h 14.00 - 242 BP neumatic bias drive and steer tyres (H25XD/S) X 14.00 - R24 Michelin XZM radial drive and steer tyres (H25XD/S) X 14.00 - R24 Trelleborg radial drive and steer tyres (H25XD/S) X 16.00 - 25 32PR Pneumatic bias ply drive and steer tyres (H28-32XD/S) 16.00 - 25 32PR Pneumatic bias ply drive and steer tyres (H28-32XD/S) 16.00 - 25 32PR Continental straddlemaster bias ply drive and steer tires (H28-32XD/S) Spare wheels and tyres X LIFT STD OPT Single stage MONO mast 2 stage non-free lift mast X 2 stage full free lift mast X 3 stage full free lift mast X 3 stage full free lift mast X 4 Mast tilt 6° forward / 10° back X Mast tilt 6° forward / 10° back X Hydraulic accumulator Pressure compensated lowering X HANDLING STD OPT Pin type carriage Pin type sideshift carriage with fork positioner Pin type side shift frame carriage with independent fork positioner Pin type side shift frame carriage with independent fork positioner Pin type side shift frame carriage with independent fork positioner Pin type side shift frame carriage with independent fork positioner Pin type side shift frame carriage with independent fork positioner with 1 auxiliary function sideshift fork positioner carriage N Hook type dual function sideshift fork positioner carriage - 0mm in-to-in Hook type dual function sideshift fork positioner carriage - 0mm in-to-in Hook type dual function sideshift fork positioner carriage - 0mm in-to-in Hook type dual function sideshift fork positioner carriage - 0mm in-to-in Hook type dual function sideshift fork positioner carriage - 0mm in-to-in Hook type dual function sideshift fork positioner carriage - 0mm in-to-in Hook type dual function sideshift fork positioner carriage - 0mm in-to-in Hoo	Mercedes OM936 7.7L Stage V diesel engine: Rated/peak power 180kW / 241hp	Х	
Hydrodynamic 5-speed ZF WG211 transmission	Heavy duty air intake	Х	
Axle Tech PRLC1794W4H drive axle with oil-immersed brakes (H28XD/S) Axle Tech PRC2806W4H drive axle with oil-immersed brakes (H28-32XD/S) BRIVE Travel speed limiter - unconditional and customer adjustable - pre-set to 16km/h 14.00 - 24 28 Pneumatic bias drive and steer tyres (H25XD/S) 14.00 - R24 Michelin XZM radial drive and steer tyres (H25XD/S) 14.00 - R24 Trelleborg radial drive and steer tyres (H25XD/S) 14.00 - R24 Trelleborg radial drive and steer tyres (H25XD/S) 16.00 - 25 32PR Pneumatic bias ply drive and steer tires (H28-32XD/S) 16.00 - 25 32PR Continental straddlemaster bias ply drive and steer tires (H28-32XD/S) 16.00 - 25 32PR Continental straddlemaster bias ply drive and steer tires (H28-32XD/S) 16.00 - R25 Michelin XZM radial drive and steer tyres (H28-32XD/S) Spare wheels and tyres LIFT STD OPT Single stage MONO mast 2 stage full free lift mast X mast tilt 6° forward / 10° back Mast tilt 6° forward / 10° back X mast tilt 15° forward / 10° back X hast tilt 15° forward / 10° back X hydraulic accumulator Pressure compensated lowering X hydraulic accumulator Prin type sideshift carriage with fork positioner X prin type side shift frame carriage with independent fork positioner Prin type side shift frame carriage with independent fork positioner Nok type dual function sideshift individual fork positioner with a look type dual function sideshift individual fork positioner with 1 auxiliary function - 300mm in-to-in Hook type dual function sideshift fork positioner carriage - 0mm in-to-in Pin type carriage with independent fork positioner with 1 auxiliary function - 300mm in-to-in Nok type dual function sideshift fork positioner carriage - 0mm in-to-in Prin type carriage with independent fork positioner with 1 auxiliary function - 300mm in-to-in Nok type dual function sideshift forks (H28-32XD/S) X soo x 105 x 2440 mm Hook type forks (H28-32XD/S) X x soo x	Raised air intake - pre-filter		Х
Axle Tech PRC3806W4H drive axle with oil-immersed brakes X	Hydrodynamic 5-speed ZF WG211 transmission	Х	
Child Chil		Х	
Travel speed limiter - unconditional and customer adjustable - pre-set to 16km/h 14.00 - 24 28 Pneumatic bias drive and steer tyres (H25XD/S) X 14.00 - R24 Trelleborg radial drive and steer tyres (H25XD/S) 14.00 - R24 Trelleborg radial drive and steer tyres (H25XD/S) 16.00 - 25 32PR Pneumatic bias ply drive and steer tires (H28-32XD/S) 16.00 - 25 32PR Continental straddlemaster bias ply drive and steer tires (H28-32XD/S) 16.00 - R25 Michelin XZM radial drive and steer tyres (H28-32XD/S) 5pare wheels and tyres LIFT STD OPT Single stage MONO mast 2 stage non-free lift mast X 2 stage full free lift mast X mast tilt 6° forward / 10° back Mast tilt 6° forward / 10° back Mast tilt 15° forward / 10° back Mast tilt 15° forward / 10° back X mast tilt 8° forward / 10° back Mast tilt 8° forward / 10° back Tilt indicator, mechanically acting Hydraulic accumulator Pressure compensated lowering X HANDLING STD OPT Pin type carriage with independent fork positioner Pin type sideshift carriage with fork positioner Pin type side shift frame carriage with independent fork positioning Hook type dual function sideshift individual fork positioner with 1 auxiliary function Hook type dual function sideshift fork positioner carriage X hook type dual function sideshift fork positioner carriage X hook type dual function sideshift fork positioner carriage - 0mm in-to-in Hook type dual function sideshift fork positioner carriage - 0mm in-to-in Hook type dual function sideshift fork positioner carriage - 0mm in-to-in Hook type dual function sideshift fork positioner carriage - 0mm in-to-in Hook type dual function sideshift fork positioner carriage - 0mm in-to-in Hook type dual function sideshift fork positioner carriage - 0mm in-to-in Hook type dual function sideshift fork positioner carriage - 0mm in-to-in Hook type coil ram 356 x 1800 mm Tyre handler - TH25K164L integral X x		Х	
pre-set to 16km/h 14.00 - 24 28 Pneumatic bias drive and steer tyres (H25XD/S) X 14.00 - R24 Michelin XZM radial drive and steer tyres (H25XD/S) 14.00 - R24 Trelleborg radial drive and steer tyres (H25XD/S) 14.00 - R25 Trelleborg radial drive and steer tyres (H25XD/S) 16.00 - 25 32PR Pneumatic bias ply drive and steer tires (H28-3XD/S) 16.00 - 25 32PR Continental straddlemaster bias ply drive and steer tires (H28-32XD/S) 16.00 - R25 Michelin XZM radial drive and steer tyres (H28-32XD/S) Spare wheels and tyres LIFT STD OPT Single stage MONO mast 2 stage non-free lift mast X 2 stage full free lift mast X 3 stage full free lift mast X Mast tilt 6° forward / 10° back Mast tilt 6° forward / 10° back Mast tilt 8° forward / 10° back Tilt indicator, mechanically acting Hydraulic accumulator Pressure compensated lowering X HANDLING STD OPT Pin type carriage Pin type sideshift carriage with fork positioner Pin type sideshift frame carriage with independent fork positioner Pin type side shift frame carriage with independent fork positioner with 1 auxiliary function Hook type dual function sideshift fork positioner carriage N Hook type dual function sideshift fork positioner carriage N Hook type dual function sideshift fork positioner carriage N Hook type dual function sideshift fork positioner carriage N Hook type dual function sideshift fork positioner carriage N Hook type dual function sideshift fork positioner carriage - 0mm in-to-in Hook type dual function sideshift fork positioner carriage - 0mm in-to-in Hook type dual function sideshift fork positioner carriage - 0mm in-to-in Hook type dual function sideshift fork positioner carriage - 0mm in-to-in Hook type dual function sideshift fork positioner carriage - 0mm in-to-in Hook type dual function sideshift fork positioner carriage - 0mm in-to-in Hook type dual function sideshift fork positioner carriage - 0mm in-to-in Hook type carriage with integrated ram with +/- 250 mm sideshift; xam length 1500mm. X 105 x 2440 mm Pin typ	DRIVE	STD	ОРТ
14.00 - R24 Michelin XZM radial drive and steer tyres (H25XD/S)	Travel speed limiter - unconditional and customer adjustable - pre-set to 16km/h		Х
14.00 - R24 Michelin XZM radial drive and steer tyres (H25XD/S)	14.00 - 24 28 Pneumatic bias drive and steer tyres (H25XD/S)	Х	
16.00 - 25 32PR Pneumatic bias ply drive and steer tires (H28-32KD/S) 16.00 - 25 32PR Continental straddlemaster bias ply drive and steer tires (H28-32KD/S) 16.00 - R25 Michelin XZM radial drive and steer tyres (H28-32KD/S) 16.00 - R25 Michelin XZM radial drive and steer tyres (H28-32KD/S) X	14.00 - R24 Michelin XZM radial drive and steer tyres		Х
16.00 - 25 32PR Pneumatic bias ply drive and steer tires (H28-32KD/S) 16.00 - 25 32PR Continental straddlemaster bias ply drive and steer tires (H28-32KD/S) 16.00 - R25 Michelin XZM radial drive and steer tyres (H28-32KD/S) 16.00 - R25 Michelin XZM radial drive and steer tyres (H28-32KD/S) X	14.00 - R24 Trelleborg radial drive and steer tyres (H25XD/S)		Х
steer tires (H28-32XD/S) 16.00 - R25 Michelin XZM radial drive and steer tyres (H28-32XD/S) Spare wheels and tyres X LIFT STD OPT Single stage MON0 mast 2 stage non-free lift mast X 2 stage full free lift mast X x 3 stage full free lift mast X x Mast tilt 6° forward / 10° back Mast tilt 6° forward / 10° back X Mast tilt 15° forward / 10° back Tilt indicator, mechanically acting Hydraulic accumulator Pressure compensated lowering X HANDLING Pin type carriage Pin type sideshift carriage with fork positioner Pin type sideshift carriage with fork positioner Pin type sideshift frame carriage with independent fork positioning Pin type side shift frame carriage with independent fork positioning Hook type dual function sideshift individual fork positioner with auxiliary function Hook type dual function sideshift fork positioner carriage X Hook type dual function sideshift fork positioner carriage X Hook type dual function sideshift fork positioner carriage X Hook type dual function sideshift fork positioner carriage X Hook type dual function sideshift fork positioner carriage X Hook type dual function sideshift fork positioner carriage X Hook type dual function sideshift fork positioner carriage X Hook type dual function sideshift fork positioner carriage X Hook type dual function sideshift fork positioner carriage - 0mm in-to-in Hook type dual function sideshift fork positioner carriage - 0mm in-to-in Hook type dual function sideshift fork positioner carriage - 0mm in-to-in Hook type dual function sideshift fork positioner carriage - 0mm in-to-in Hook type dual function sideshift fork positioner carriage - 0mm in-to-in Hook type dual function sideshift fork positioner carriage - 0mm in-to-in Hook type dual function sideshift fork positioner carriage - 0mm in-to-in Hook type dual function sideshift fork positioner carriage - 0mm in-to-in Hook type dual function sideshift fork positioner carriage - 0mm in-to-in Hook type coil ram 356 x 1500 mm in-to-in Hook type coil	16.00 - 25 32PR Pneumatic bias ply drive and steer tires (H28-	Х	
Spare wheels and tyres LIFT STD OPT Single stage MON0 mast 2 stage non-free lift mast 3 stage full free lift mast X x x x x x x x x x x x x x x x x x x	16.00 - 25 32PR Continental straddlemaster bias ply drive and steer tires (H28-32XD/S)		Х
LIFT Single stage MONO mast 2 stage non-free lift mast 2 stage full free lift mast 3 stage full free lift mast X 2 stage full free lift mast X 3 stage full free lift mast X Mast tilt 6° forward / 10° back Mast tilt 6° forward / 10° back Mast tilt 15° forward / 10° back Tilt indicator, mechanically acting Hydraulic accumulator Pressure compensated lowering X HANDLING STD OPT Pin type carriage Pin type sideshift carriage with fork positioner Pin type side shift frame carriage with independent fork positioning Pin type side shift frame carriage with independent fork positioning Hook type dual function sideshift individual fork positioner with 1 auxiliary function Hook type dual function sideshift fork positioner with 1 auxiliary function Hook type dual function sideshift fork positioner with 1 auxiliary function Hook type dual function sideshift fork positioner carriage Now type dual function sideshift fork positioner carriage Now 105 x 2440 mm Hook type forks (H25XD/S) Now 105 x 2440 mm Hook type forks (H25XD/S) Now 110 x 2440 mm Pin type forks (H28-32XD/S) Now 110 x 2440 mm Pin type forks (H28-32XD/S) Now 110 x 2440 mm Pin type forks (H28-32XD/S) Now 110 x 2440 mm Pin type forks (H28-32XD/S) Now 110 x 2440 mm Pin type forks (H28-32XD/S) Now 110 x 2440 mm Pin type forks (H28-32XD/S) Now 110 x 2440 mm Pin type forks (H28-32XD/S) Now 110 x 2440 mm Pin type forks (H28-32XD/S) Now 110 x 2440 mm Pin type forks (H28-32XD/S) Now 110 x 2440 mm Pin type forks (H28-32XD/S) Now 110 x 2440 mm Pin type forks (H28-32XD/S) Now 110 x 2440 mm Pin type forks (H28-32XD/S) Now 110 x 2440 mm Pin type forks (H28-32XD/S) Now 110 x 2440 mm Pin type forks (H28-32XD/S) Now 110 x 2440 mm Pin type forks (H28-32XD/S) Now 110 x 2440 mm Pin type forks (H28-32XD/S) Now 110 x 2440 mm Pin type forks (H28-32XD/S) Now 110 x 2			Х
Single stage MONO mast 2 stage non-free lift mast X 2 stage full free lift mast X 3 stage full free lift mast X Mast tilt 6° forward / 10° back Mast tilt 6° forward / 6° back Mast tilt 15° forward / 10° back X Mit indicator, mechanically acting Hydraulic accumulator Pressure compensated lowering X HANDLING Pin type carriage Pin type sideshift carriage with fork positioner Pin type side shift frame carriage with independent fork positioning Pin type side shift frame carriage with independent fork positioning Pin type side shift frame carriage with independent fork positioning Pin type dual function sideshift individual fork positioner with 1 auxiliary function Hook type dual function sideshift fork positioner with 1 auxiliary function - 300mm in-to-in Hook type dual function sideshift fork positioner carriage X Hook type dual function sideshift fork positioner carriage X Hook type dual function sideshift fork positioner with 1 auxiliary function Book type dual function sideshift fork positioner carriage X Hook type dual function sideshift fork positioner carriage - 0mm in-to-in Hook type dual function sideshift fork positioner carriage - 0mm in-to-in X 280 x 105 x 2440 mm Hook type forks (H25XD/S) 300 x 105 x 2440 mm Pin type forks (H28-32XD/S) 300 x 110 x 2440 mm Pin type forks (H28-32XD/S) 300 x 110 x 2440 mm Pin type forks (H28-32XD/S) X 300 x 110 x 2440 mm Pin type forks (H28-32XD/S) X 3100 x 110 x 2440 mm Pin type forks (H28-32XD/S) X 3100 x 110 x 2440 mm Pin type forks (H28-32XD/S) X 3100 x 110 x 2440 mm Pin type forks (H28-32XD/S) X 3100 x 110 x 2440 mm Pin type forks (H28-32XD/S) X 3100 x 110 x 2440 mm Pin type forks (H28-32XD/S) X 3100 x 110 x 2440 mm Pin type forks (H28-32XD/S) X 3100 x 110 x 2440 mm Pin type forks (H28-32XD/S) X 3100 x 110 x 2440 mm Pin type forks (H28-32XD/S) X 3100 x 110 x 2440 mm Pin type forks (H28-32XD/S) X 3100 x 110 x 2440 mm Pin type forks (H28-32XD/S) X 3100 x 110 x 2440 mm Pin type forks (H28-32XD/S) X 3100 x 110	Spare wheels and tyres		Х
2 stage non-free lift mast 2 stage full free lift mast X 3 stage full free lift mast X Mast tilt 6° forward / 10° back Mast tilt 6° forward / 6° back X Mast tilt 15° forward / 6° back X Mast tilt 15° forward / 10° back X Tilt indicator, mechanically acting Hydraulic accumulator Pressure compensated lowering X HANDLING Pin type carriage Pin type sideshift carriage with fork positioner Pin type sideshift carriage with independent fork positioning Pin type side shift frame carriage with independent fork positioning Pin type side shift frame carriage with independent fork positioning Pin type side shift frame carriage with independent fork positioning Pin type gual function sideshift individual fork positioner with 1 auxiliary function Hook type dual function sideshift individual fork positioner with 1 auxiliary function - 300mm in-to-in Hook type dual function sideshift fork positioner carriage - 0mm in-to-in Pin type carriage with integrated ram with +/- 250 mm sideshift; ram length 1500mm. 280 x 105 x 2440 mm Pin type forks (H25XD/S) 300 x 105 x 2440 mm Pin type forks (H25XD/S) 300 x 105 x 2440 mm Pin type forks (H28-32XD/S) 300 x 110 x 2440 mm Pin type forks (H28-32XD/S) 300 x 110 x 2440 mm Pin type forks (H28-32XD/S) X 1500mm integrated coil ram Hook type coil ram 356 x 1500 mm X Pin type coil ram 356 x 1500 mm X Pin type coil ram 356 x 1500 mm X Pin type coil ram 356 x 1500 mm X Pin type coil ram 356 x 1800 mm X Pin type coil ram 356 x 1800 mm X Yre handler - TH25K164L integral Tyre handler - TH36K164L integral	LIFT	STD	ОРТ
2 stage non-free lift mast 2 stage full free lift mast X 3 stage full free lift mast X Mast tilt 6° forward / 10° back Mast tilt 6° forward / 6° back X Mast tilt 15° forward / 6° back X Mast tilt 15° forward / 10° back X Tilt indicator, mechanically acting Hydraulic accumulator Pressure compensated lowering X HANDLING Pin type carriage Pin type sideshift carriage with fork positioner Pin type sideshift carriage with independent fork positioning Pin type side shift frame carriage with independent fork positioning Pin type side shift frame carriage with independent fork positioning Pin type side shift frame carriage with independent fork positioning Pin type gual function sideshift individual fork positioner with 1 auxiliary function Hook type dual function sideshift individual fork positioner with 1 auxiliary function - 300mm in-to-in Hook type dual function sideshift fork positioner carriage - 0mm in-to-in Pin type carriage with integrated ram with +/- 250 mm sideshift; ram length 1500mm. 280 x 105 x 2440 mm Pin type forks (H25XD/S) 300 x 105 x 2440 mm Pin type forks (H25XD/S) 300 x 105 x 2440 mm Pin type forks (H28-32XD/S) 300 x 110 x 2440 mm Pin type forks (H28-32XD/S) 300 x 110 x 2440 mm Pin type forks (H28-32XD/S) X 1500mm integrated coil ram Hook type coil ram 356 x 1500 mm X Pin type coil ram 356 x 1500 mm X Pin type coil ram 356 x 1500 mm X Pin type coil ram 356 x 1500 mm X Pin type coil ram 356 x 1800 mm X Pin type coil ram 356 x 1800 mm X Yre handler - TH25K164L integral Tyre handler - TH36K164L integral	Single stage MONO mast		Х
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300 x 110 x 2440 mm Hook type forks (H28-32XD/S) X 300 x 110 x 2440 mm Pin type forks (H28-32XD/S) X 1500mm integrated coil ram X Hook type coil ram 356 x 1500 mm X Hook type coil ram 356 x 1800 mm X Pin type coil ram 356 x 1500 mm X Pin type coil ram 356 x 1800 mm X Tyre handler - TH25K164L integral X Tyre handler - TH36K164L integral X	300 x 105 x 2440 mm Hook type forks (H28-32XD/S)	X	
300 x 110 x 2440 mm Pin type forks (H28-32XD/S) X 1500mm integrated coil ram X Hook type coil ram 356 x 1500 mm X Hook type coil ram 356 x 1800 mm X Pin type coil ram 356 x 1500 mm X Pin type coil ram 356 x 1800 mm X Tyre handler - TH25K164L integral X Tyre handler - TH36K164L integral X	300 x 105 x 2440 mm Pin type forks (H28-32XD/S)		Х
1500mm integrated coil ram X Hook type coil ram 356 x 1500 mm X Hook type coil ram 356 x 1800 mm X Pin type coil ram 356 x 1500 mm X Pin type coil ram 356 x 1800 mm X Tyre handler - TH25K164L integral X Tyre handler - TH36K164L integral X	300 x 110 x 2440 mm Hook type forks (H28-32XD/S)		Х
Hook type coil ram 356 x 1500 mm	300 x 110 x 2440 mm Pin type forks (H28-32XD/S)		Х
Hook type coil ram 356 x 1800 mm	1500mm integrated coil ram		Х
Pin type coil ram 356 x 1500 mm X Pin type coil ram 356 x 1800 mm X Tyre handler - TH25K164L integral X Tyre handler - TH36K164L integral X	Hook type coil ram 356 x 1500 mm		Х
Pin type coil ram 356 x 1800 mm X Tyre handler - TH25K164L integral X Tyre handler - TH36K164L integral X	Hook type coil ram 356 x 1800 mm		Х
Tyre handler - TH25K164L integral X Tyre handler - TH36K164L integral X	Pin type coil ram 356 x 1500 mm		Х
Tyre handler - TH36K164L integral X	Pin type coil ram 356 x 1800 mm		Χ
			Х
Tyre handler - TH25K164L hang-on X			
	Tyre handler - TH25K164L hang-on		X

ERGONOMICS	STD	ОРТ
Open operating module as overhead guard	Х	
Enclosed operator cabin with heating		Х
Enclosed operator cabin with automatic climate control		Х
Manual cab tilt	Х	
Electrically powered cab tilt		Х
Diesel fueled cab heater		Х
H-type double blade wiper on front windscreen		Х
I-type single blade wiper on front windscreen	Х	
Heated rear window		Х
Heated top and rear window		X
Heated top window		X
Top window with armoured glass	Х	
Top window with armoured glass and additional steel bars		X
Tinted top cabin window		X
Tinted cabin windows - applied to all windows		X
Wire mesh operator guard Vertical steel bar front screen guard		X
		X
Plexiglass shield in front of front window Armoured glass rain top		X
Wire mesh installed on top of operator compartment		X
2 sun visors for front window		$\frac{1}{x}$
Top and rear screen roller sunshade		$\frac{\lambda}{X}$
Mechanical suspension cloth seat		$\frac{x}{x}$
Mechanical suspension vinyl seat	Х	
Air suspension cloth seat		\mathbf{x}
Air suspension vinyl seat		X
Deluxe air suspension cloth seat		х
Deluxe air suspension heated cloth seat		Х
Deluxe air ride full suspension vinyl with high backrest seat		Х
Deluxe air suspension seat with cloth cover, heating and		х
ventilation		
High and adjustable seat backrest		X
Leftside armrest on operator seat	X	
Lateral sliding mechanism for operator seat	V	X
Hi-vis red 2 point seat belt	Х	
Hi-vis red 3 point seat belt		X
Trainer seat with cloth cover and 2-point high-visibility seatbelt Steering wheel with spinner knob		$\frac{1}{x}$
7" integrated performance display	Х	$\stackrel{\wedge}{\vdash}$
Accessory mounting bracket on A-pillar		X
Document holder		X
Radio preparation with 2 speakers and antenna		$\frac{x}{x}$
Bluetooth radio with 2 speaker and antenna		Х
Interior dome light	Х	
Reading light		х
Recirculation fan		Х
Steer axle with wheel nut protection	Х	
VISIBILITY	STD	ОРТ
2 external mirrors on cab handrail mounted exterior wide angle mirrors		х
2 halogen drive lights, position and direction lights on front fender / 2 halogen work lights mast mounted / 2 halogen cab mounted rear / rear ward cluster with stop, tail, indicator & reverse lights inclusive hazard function	х	
2 Halogen drive lights, position and direction lights on front fender / 4 halogen work lights front cab mounted / 2 halogen rear cab mounted / rear ward cluster with stop, tail, indicator & reverse lights inclusive hazard function		Х
Halogen four front cab / two rear / two front fenders / brake / tail / back-up lights		Х
Rear mounted color camera with rear mounted LCD display		Х
Rear mounted color camera with front mounted LCD display		Х
2 HP LED work lights on front mast with 2 on rear and front fenders / brake / tail / back-up lights		Х

FEATURES AND OPTIONS <



APPEARANCE	STD	ОРТ
Hyster yellow paint base truck	Х	
Replace yellow with 1 colour		Х
Replace yellow with 2 colours (mast, cabin and wheels not included)		Х
Outside of cab painted special color		Х
Complete cab painted special colour		Х
Wheel rim side view painted same colour as base truck		Х
Counterweight hazard warning stripes		Χ
SUPPLEMENTAL	STD	ОРТ
Litaratura naak		Х
Literature pack		V
CE certification		X
•	X	Χ

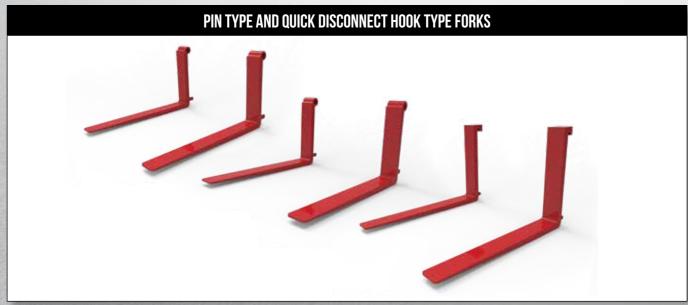
*Standard or optional in selected markets or models. Other options available through Special Products Engineering Department (SPED).
Contact Hyster for details.

VISIBILITY (continued)	STD	0P
2 HP LED work lights on front mast with 2 on rear and front fenders / brake / tail / back-up lights with turn signals		Х
4 HP LED work lights on cab with 2 on rear and front fenders (LED) / brake / tail / back-up lights with turn signals		Х
4 LED work lights cab mounted, 2 LED drive lights with position and direction front fender mounted, 2 LED work lights on rear of operator compartment / LED rear ward cluster with stop, tail, indicator & reverse lights		х
2 LED Work lights mast mounted, 2 LED drive lights with position and direction front fender mounted, 2 LED work lights on rear of operator compartment / LED rearward cluster with stop, tail, indicator & reverse lights		х
LED headlights, 2 front (mast mounted)		Х
OPERATION	STD	0P
Air horn		Х
Electrical horn	Х	
Audible reverse alarm	Х	
Audible white noise reverse alarm		X
Audible alarm - forward / reverse		X
Amber strobe light - ignition activated		X
Blue LED spotlight - rear - reverse direction activation	_	X
Forward camera mounted on outer mast		X
Forward camera mounted on carriage Park brake - manual	X	Х
Truck start – key switch with start button – without seatbelt		
interlock Truck start – key switch with start button and seatbelt	X	X
interlock '		
Operator password in display - required for truck start		X
Directional lever		X
MONOTROL™	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Х
Directional control on mini-levers	X	
Directional control on joystick Automatic truck shutdown with timer		X
Delayed engine shutdown for turbo cooldown		X
Air-conditioning shut-off with open door		X
Tyre pressure monitoring system		X
Load weight indicator		X
Engine oil level on display and dipstick		Х
Engine oil level on display	Х	
Coolant level warning on display	Х	
Coolant level warning on display and sight glass		Х
Power distribution panel with fuses partially replaced by electric circuit breakers		Х
Rear axle load indicator		Х
Hydraulic load weighing system		Х
Rear radar object detection system		X
Automatic fire suppression system	-	X
2 front / 2 rear lifting eyes		X
Greasing base truck		X
Greasing hose towards top end mast Centralized greasing system top endmast		X
Mud guards front and rear		_ ^
Lockable fuel cap		X
Non-kockable fuel cap	X	
Stainless steel strainer in fuel neck	<u> </u>	Х
Hyster Tracker wireless monitoring	Х	<u> </u>
Hyster Tracker wireless access	Ė	Х
Hyster Tracker wireless verification		X
DC/DC 24/12V converter with 1 power sockets and 2 USB outlets		Х
DC/DC 24/12V converter with 2 power sockets and 2 USB outlets		Х
Jump start connector to battery with NATO connector		Х
Engine block heater 230V		Х
Hydraulic temperature protection		X

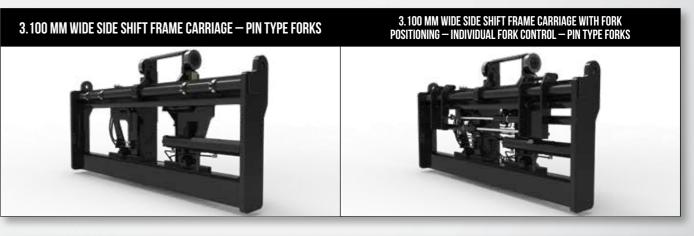
FRONT END EQUIPMENT

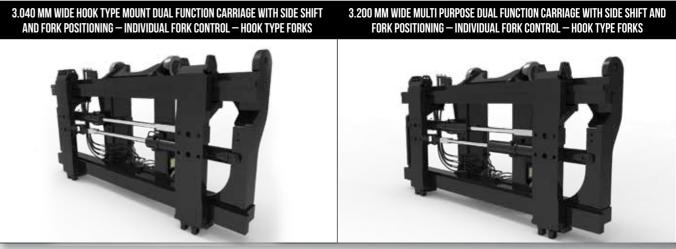
FRONT END EQUIPMENT















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Hyster products are subject to change without notice. Forklift trucks illustrated may feature optional equipment.



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