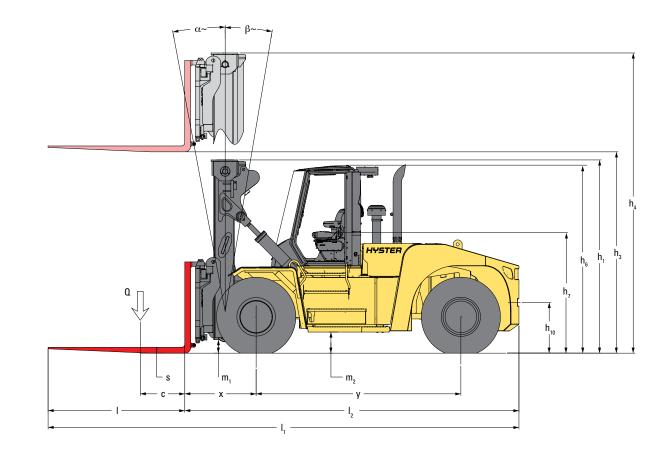
# H25-32XD SERIES

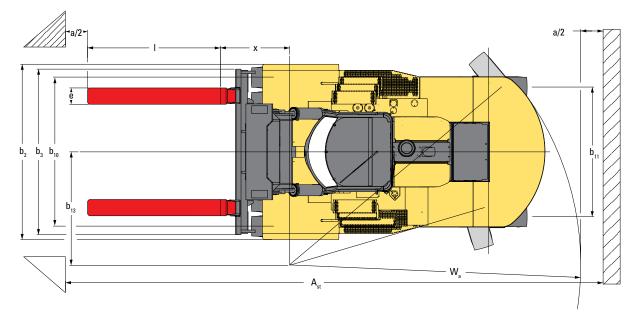


## HEAVY DUTY FORKLIFT PRODUCT TECHNICAL GUIDE



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- = Centre of gravity of unladen truck  $\bullet$
- ${\rm A}_{\rm ST}$
- =  $W_a + x + I_6 + a$  (if  $b_{12}/2 < b_{13}$ ) =  $W_a + ((I_6 + x)^{A^2} + (b_{12}/2 b_{13})^{A0.5} + a$  (if  $b_{12}/2 > b_{13}$  and  $W_a > b_{13+}b_{12}/2$ ) =  $b_{13} + b_{12}/2$  (( $I_6 + x$ )^{A^2} + ( $b_{12}/2 b_{13}$ )^{A0.5} + a (if  $b_{12}/2 > b_{13}$  and  $W_a < b_{13+}b_{12}/2$ ) = Minimum operating clearance = 10% of  $A_{ST}$  $\mathsf{A}_{\mathrm{st}}$
- $\mathsf{A}_{\mathrm{ST}}$
- а
  - (VDI standard = 200 mm BITA recommendation = 300 mm)
- load lengths  $\mathsf{I}_6$ =
- load width = b<sub>12</sub>

### **POWERTRAINS**

_	1-1	Manufacturer		ПАС	STER		
GENERAL	1-2	Model designation			H32XD12		
GEN	1-3	Powertrain / drivetrain			esel		
	7-1	Engine manufacturer / model		Cummins / QSB 6.7	Mercedes-Benz OM936 / 7.7		
	7-1a	Emission legislation		Stage IIIA	Stage V		
	7-2	Engine power output according to ISO 1585	kW @ rpm	194@2200	180@1800		
	7-2-1	Engine power output - Peak	kW @ rpm	201@2000	180@1800		
빌	7-3	Rated speed	rpm	2,2	200		
ENGINE	7-3-1	Engine torque at 1/min	Nm @ rpm	990@1,500	1,000@1200-1600		
	7-4	Number of cylinders / displacement	# / cm <sup>3</sup>	6 / 6,690	6 / 7,698		
	7-5	Fuel consumption according to VDI cycle	l/h	On re	quest		
	7-8	Alternator output	Amps	120	150		
	7-9	Electrical system voltage	V	2	24		
	7-10	Battery voltage, rated capacity	V / Ah	24 /	102		
	10-1	Operating pressure for attachments	MPa	22	2.5		
	10-2	Oil volume for attachments	l/m	1	00		
~	10-3	Hydraulic tank capacity (1)	1	237	/ 274		
MISC	10-4	Fuel tank capacity (2)	I.	304	/ 364		
	10-4-1	DEF/AdBlue Tank capacity	1	N/A	38		
	10-5	Steering design	Туре	e Hydraulic power steering			
	10-6	Number of steering rotations	#		6		

GEN- Eral	1-1	Manufacturer		HYS	TER	
9 8 8	1-2	Model designation		H25XD9-12	H28XD12 / H32XD9-12	
	8-1	Type of drive unit	Туре	Torque C	onverter	
N	8-2	Transmission manufacturer / type	Туре	ZF 5WG211		
TRA	8-3	Transmission speed forward / backward	#	5/3		
lIVE	8-5	Wheel drive / drive axle manufacturer / type	Туре	AxleTech / PRC 1794W4H	AxleTech / PRC 3806W4H	
DR	8-11	Service brake	Туре	Oil immersed (wet) disc		
	8-12	Parking brake	Туре	Spring applied, dry	/ disc on drive axle	

(1) H25XD9 (237L) All other models 274L.

(2) H25XD9 (304L) All other models 364L

#### NOTES:

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 Hyster<sup>®</sup> truck.

#### NOTICE:

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.

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

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 Equipment 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.

## H25XD9 / H25XD12 / H28XD12 SPECIFICATIONS

	1-1	Manufacturer					HYS	TER		
	1-1	Model designation			H253	XD9	H25)		H28XI	12
	1-2	Powertrain / drivetrain			1120		Die		II ZOA	512
GENERAL	1-4	Operator type					Sea			
INE	1-5	Load capacity at load centre, nominal	Q	kg	25,000				28,000	
5	1-6	Load centre	C <sub>1</sub>	mm	90			1.3	200	
	1-8	Load distance (1)	X	mm			189	,	1,27	'4
	1-9	Wheelbase	у	mm	3,6		4,3	15	4,31	
E	2-1	Service weight		kg	37,9		38,4		45,6	
IGH	2-2	Axle loading with load, front / rear		kg	58,534	4,451	58,205	5,250	67,530	6,086
WEIGHT	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		Туре			Pneu	matic		
10	3-2	Tyre size, front		0		14.00 -	24 28PR		16.00 - 2	5 32PR
WHEELS	3-3	Tyre size, rear		0		14.00 -	24 28PR		16.00 - 2	5 32PR
Ħ	3-5	Wheels, number front / rear (x = driven wheels)		#			x4	/ 2		
5	3-6	Tread, front	b <sub>10</sub>	mm		2,2	279		2,42	24
	3-7	Tread, rear	b <sub>11</sub>	mm		2,3	381		2,33	8
	4-1	Mast tilt, forward / backward	α/β	deg			6° /	10°		
	4-2	Height, mast lowered (2)	h,	mm		4,(	099		4,22	24
	4-3	Free lift	h <sub>2</sub>	mm			(	)		
	4-4	Lift (3)	h <sub>3</sub>	mm			4,2	65		
	4-5	Height, mast extended	h <sub>4</sub>	mm			231		6,35	
	4-7	Height of overhead guard (open cab)	h <sub>6</sub>	mm			399		3,49	
	4-7-1	Height of overhead guard (closed cab)	h <sub>6</sub>	mm			426		3,52	
	4-7-2	Height of overhead guard (closed cab w/ airco)	h <sub>6</sub>	mm		3,426				2
	4-7-3	Height of overhead guard (closed cab w/ strobe light)	h <sub>6</sub>	mm		3,523				9
	4-7-4	Height of overhead guard (closed cab w/ work lights)	h <sub>6</sub>	mm	3,575				3,67	
	4-7-5	Height of overhead guard (closed cab w/ airco & strobe light)	h <sub>6</sub>	mm	3,553				3,64	
	4-8	Seat Height to SIP (4)	h <sub>7</sub>	mm	2,193				2,29	
	4-9	Coupling height	h <sub>10</sub>	mm	935			1,03		
	4-19	Overall length	L <sub>1</sub>	mm	8,3		8,9		9,06	
S	4-20 4-21	Length to face of forks	l <sub>2</sub>	mm	5,8		6,5	941	6,62	
DIMENSIONS	4-21	Overall width across drive tyres Fork dimensions ISO 2331	b <sub>2</sub>	mm	105 / 280	2,440	220 105 / 280	2,440	3,43 105 / 300	2,440
SNE	4-22	Carriage type	s/e/l	mm	105 / 280	2,440	Dual Fu		1057 300	2,440
M	4-23	Carriage width	h	mm		3 (	)40		3,20	0
Ω	4-25	Width over forks (min / max)	b <sub>3</sub> b <sub>5</sub>	mm			/ 2,970		1,480 /	
	4-25a	Width over forks alternate position (min/max)	b <sub>5</sub>	mm			2,420		930 / 2	
	4-30	Sideshift @ width over forks	b <sub>8</sub> b <sub>5</sub>	mm			/ 2,200		+/-415 /	
	4-31	Ground clearance, lowest point	~ <sub>8</sub> ~ <sub>5</sub> m₁	mm			19		227	
	4-32	Ground clearance, centre of wheelbase	m,	mm			06		502	2
	4-33-1	Load size	bxl	mm	24	00	24	00	240	0
		Aisle width (a=10%)	Ast	mm	8,9		9,7		9,85	
		Aisle width (a=0)	Ast	mm	9,1		9,9		10,0	
		Aisle width (a=200 mm)	Ast	mm	9,8	07	10,7	751	10,8	45
	4-33-2	Load size	b x l	mm	180	00	18	00	180	0
	4-34-2-1	Aisle width (a=10%)	Ast	mm	9,1	47	10,0	091	10,1	85
		Aisle width (a=0)	Ast	mm	8,3	15	9,1	74	9,25	59
		Aisle width (a=200 mm)	Ast	mm	8,5		9,3		9,45	
	4-35	Outside turning radius	Wa	mm	8,3	26	6,1	85	6,18	
	4-36	Internal turning radius (6)	b <sub>13</sub>	mm	2,0		2,5		2,58	
	5-1	Travel speed, with / without load		km/h	2		2		25	
щ	5-2	Lifting speed, with / without load		m/s	0.33	0.35	0.33	0.35	0.27	0.29
AN	5-2-1	Lifting speed, with 70% load		m/s			34		0.2	
RM	5-3	Lowering speed with / without load		m/s	0.50	0.50	0.50	0.50	0.50	0.50
PERFORMANCE	5-5			kN kN	196	200	196	200	197	200
PEF	5-6 5-7	5-6 Drawbar pull - max, with / without load 5-7 Gradeability - 1.6 km/h   1 mph, with / without load (5)			238	242	238	242	240	245
	5-7 5-8	Gradeability - 1.6 km/n   1 mpn, with / without load (5) Gradeability - max, with / without load (5)		%	33 /		33 / 41 /		28 / 35 /	
	<b>J=</b> 0	Graddability - max, with / without load (5)		/0	427	04	41/	00		00

(1) Centre of drive axle to front face of forks(2) Unladen with new tyres

(a) Bottom of Forks
(4) SIP to drive axle plus radius of tyres to ground using standard tyres

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

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

## H30XD9 / H30XD12 / H32XD9 / H32XD12 SPECIFICATIONS

						1.1.40	750			
	1-1	Manufacturer			1120700	HYS		11202040		
	1-2	Model designation			H30XD9	H30XD12	H32XD9	H32XD12		
AL	1-3	Powertrain / drivetrain				Die				
GENERAL	1-4	Operator type	0	l.e.	00 700	Sea		20,000		
GEI	1-5	Load capacity at load centre, nominal	Q	kg	29,700	30,000	31,950	32,000		
	1-6	Load centre	C <sub>1</sub>	mm	900	1,200	900	1,200		
	1-8	Load distance (1)	X	mm	2.025	1,2		4.005		
	1-9	Wheelbase	У	mm	3,935	4,315	3,935	4,825		
GHT	2-1	Service weight		kg	45,325	46,262	45,935	45,868		
WEIGHT	22	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 3-2	Tyre type Tyre size, front				Pneu 16.00 - 2				
ΓS	<u>3-2</u> 3-3	Tyre size, rear								
WHEELS	3-5 3-5	-			16.00 - 25 32PR x4 / 2					
M	3-5 3-6	Number of tyres, front / rear (x = driven wheels) Tread, front	h	mm	2,424					
	3-0 3-7	Tread, rear	b <sub>10</sub>	mm		2,4				
	<u> </u>	Mast tilt, forward / backward	b <sub>11</sub> α/β	mm deg		6° /				
	4-1	Height, mast lowered (2)	h <sub>1</sub>	mm		4,2				
	4-2	Free lift		mm		4,2				
	4-3	Lift (3)	h <sub>2</sub> h <sub>3</sub>	mm		4,2				
	4-4	Height, mast extended	h <sub>4</sub>	mm		6,3				
	4-7	Height of overhead guard (open cab)	h <sub>6</sub>	mm		3,4				
	4-7-1	Height of overhead guard (closed cab)	h <sub>6</sub>	mm		3,5				
	4-7-2	Height of overhead guard (closed cab)	h <sub>6</sub>	mm		3,5				
	4-7-3	Height of overhead guard (closed cab w/ alree)	h <sub>6</sub>	mm		3,6				
	4-7-4	Height of overhead guard (closed cab w/ work lights)	h <sub>6</sub>	mm						
	4-7-5	Height of overhead guard (closed cab w/ work lights)		mm	3,671 3,649					
	4-7-5	Seat Height to SIP (4)	h <sub>6</sub> h <sub>7</sub>	mm	2,292					
	4-12	Coupling height	h <sub>10</sub>	mm	1,031					
	4-19	Overall length	I <sub>1</sub>	mm	8,686	9,066	8,686	9,576		
	4-20	Length to face of forks	I <sub>2</sub>	mm	6,246	6,626	6,246	7,136		
SN	4-21	Overall width across tyres	b <sub>2</sub>	mm	0,210	3,4		1,100		
) IOI	4-22	Fork dimensions ISO 2331	s/e/l	mm		105 / 300				
DIMENSIONS	4-23	Carriage type				Dual Fu				
MIC	4-24	Carriage width	b <sub>3</sub>	mm		3,2				
	4-25	Width over forks (min / max)	b <sub>5</sub>	mm		1,480				
	4-25a	Width over forks alternatezz (min / max))	b <sub>5</sub>	mm		930 /				
	4-30	Sideshift @ width over forks	b <sub>8</sub>	mm		+/-415				
	4-31	Ground clearance, laden, below mast	m₁	mm		22	27			
	4-32	Ground clearance, centre of wheelbase	m <sub>2</sub>	mm		50	)2			
	4-33-1	Load size	b×l	mm		2,400 >	< 2,400			
	4-34-1-1	Aisle width (a=10%)	Ast	mm	10.302	10,845	10,302	11,574		
	4-34-1-2	Aisle width (a=0)	Ast	mm	9,365	9,859	9,365	10,522		
	4-34-1-3	Aisle width (a=200mm)	Ast	mm	9565	10,059	9,565	10,722		
		Load size	b×l	mm		1,800 >	( 1,800			
	4-34-2-1	Aisle width (a=10%)	Ast	mm	9,642	10,185	9,642	10,914		
	4-34-2-2	Aisle width (a=0)	Ast	mm	8,765	9,259	8,765	9,992		
		Aisle width (a=200mm)	Ast	mm	8,965	9,459	8,965	10,122		
	4-35	Outside turning radius	W <sub>a</sub>	mm	5,691	6,185	5,691	6,848		
	4-36	Internal turning radius (6)	b <sub>13</sub>	mm	2,273	2,589	2,273	3,013		
	5	Travel speed, with / without load		km/h			/ 25			
ICE	5-2-1	Lifting speed, with 70% load		m/s		0.1	28			
MAN	5-3	Lowering speed with / without load		m/s		0.50				
PERFORMANCE	5-5	Drawbar pull - 1.6 km/h   1 mph, with / without load		kN		/ 202		/ 202		
RF	5-6	Drawbar pull - max, with / without load		kN	239 / 245	239 / 244	239 / 244	239 / 244		
P	5-7	Gradeability - 1.6 km/h   1 mph, with / without load (5)		%	28 / 35	27 / 35	27 / 34	27 / 36		
	5-8	Gradeability - max, with / without load (5)		%	34 / 35	34 / 35	33 / 34	33 / 36		

(1) Centre of drive axle to front face of forks

(2) Unladen with new tyres

(3) Bottom of Forks

(4) SIP to drive axle plus radius of tyres to ground using standard tyres

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

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

## MAST AND CAPACITY INFORMATION

#### H25XD9 RATED CAPACITY KG @ 900 MM AND @ 1200 LOAD CENTRE

	Lift	Lowered	Free lift	Extended		de Shift & Fork Pos RO IN-TO-IN fork p			de Shift & Fork Pos RO IN-TO-IN fork po	
	height h <sub>3</sub> (mm)	height h <sub>1</sub> (mm)	height h <sub>2</sub> (m)	height h₄ (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
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 (1)

#### H25XD12 RATED CAPACITY KG @1200 LOAD CENTRE

	Lift	Lowered	Free lift	Extended		Fork Positioning carriage I-IN fork positioning	Dual Function Side Shift 8 with ZERO IN-TO-I	Fork Positioning carriage N fork positioning
	height h <sub>3</sub> (mm)	height h <sub>1</sub> (mm)	height h <sub>2</sub> (m)	height h <sub>4</sub> (mm)	Capacity @ 1,200 mm load centre (kg)	Mast tilt (forward/ backward) (°)	Capacity @ 1.200 mm load centre (kg)	Mast tilt (forward/ backward) (°)
	3,155	3,491	0	5,016	25,000	6 / 10	25,000	6 / 10
	3,760	3,794	0	5,621	25,000	6 / 10	25,000	6 / 10
JE NFL	4,370	4,099	0	6,231	25,000	6 / 10	25,000	6 / 10
STAGE	4,980	4,404	0	6,841	25,000	6 / 10	25,000	6 / 10
2 3	6,200	5,014	0	8,061	25,000	6 / 10	25,000	6 / 10
	9,250	6,539	0	11,111	22,300	6 / 6	<b>20,300</b> (1)	6 / 6

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

	Lift	height height		ht height		de Shift & Fork Pos RO IN-TO-IN fork p		Dual Function Side Shift & Fork Positioning carriage with ZERO IN-TO-IN fork positioning		
	height h <sub>3</sub> (mm)	height h <sub>1</sub> (mm)	height h <sub>2</sub> (m)		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
	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
ie 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	<b>30.920</b> (1)	6 / 6	27.180 (1)
	9,860	7,479	0	12,356	30,600	6 / 6	26,900	29.660 (1)	6 / 6	26.900 (1)

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

	Lift	Lowered Free lift	ee lift Extended		de Shift & Fork Pos RO IN-TO-IN fork p		Dual Function Side Shift & Fork Positioning carriage with ZERO IN-TO-IN fork positioning			
	height h <sub>3</sub> (mm)	height h <sub>1</sub> (mm)	height h <sub>2</sub> (m)	height h <sub>4</sub> (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
ي.	3,760	3,919	0	5,746	30,000	6 / 10	26,940	30,000	6 / 10	26,940
JE NFL	4,370	4,224	0	6,356	30,000	6 / 10	26,880	30,000	6 / 10	26,880
STAGE	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 (1)	6 / 10	26.420 (1)
	9,250	7,174	0	11,746	28,880	6 / 6	25,360	28.880 (1)	6/6	25,360 (1)
	9,860	7,479	0	12,356	28,580	6 / 6	25,120	28.580 (1)	6 / 6	25,120 (1)

(1) Note: Carriage with ZERO IN-TO-IN fork positioning not recommended in combination with lift heights above 6200 mm

## MAST AND CAPACITY INFORMATION

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

	Lift	Lowered				Dual Function Side Shift & Fork Positioning carriage without ZERO IN-TO-IN fork positioning			Dual Function Side Shift & Fork Positioning carriage with ZERO IN-TO-IN fork positioning		
	height h <sub>3</sub> (mm)	height h <sub>1</sub> (mm)	height h <sub>2</sub> (m)	height h₄ (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	
	3,760	3,919	0	5,746	32,000	6 / 10	30,000	32,000	6 / 10	30,000	
JE NFL	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	<b>31,100</b> (1)	6 / 6	29,000 (1)	
	9,860	7,479	0	12,356	30,880	6 / 6	29,680	<b>29,840</b> (1)	6 / 6	28,720 (1)	

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

			Free lift	Extended		de Shift & Fork Pos RO IN-TO-IN fork p		Dual Function Side Shift & Fork Positioning carriage with ZERO IN-TO-IN fork positioning			
	height h <sub>3</sub> (mm)	height h <sub>1</sub> (mm)	height h <sub>2</sub> (m)	height h <sub>4</sub> (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	
بے	3,760	3,919	0	5,746	32,000	6 / 10	28,560	32,000	6 / 10	28,560	
IE NFL	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 (1)	6 / 6	26,360 (1)	
	9,860	7,479	0	12,356	29,420	6 / 6	26,160	<b>29,420</b> (1)	6 / 6	<b>26,120</b> (1)	

#### H32XD12 RATED CAPACITY KG @1200 LOAD CENTRE

	Lift	height height		Extended	Dual Function Side Shift 8 without ZERO IN-TO	& Fork Positioning carriage D-IN fork positioning	Dual Function Side Shift & Fork Positioning carriage with ZERO IN-TO-IN fork positioning		
	height h <sub>3</sub> (mm)	height h <sub>1</sub> (mm)	height h <sub>2</sub> (m)	height h <sub>4</sub> (mm)	Capacity @ 1.200 mm load centre (kg)	Mast tilt (forward/ backward) (°)	Capacity @ 1.200 mm load centre (kg)	Mast tilt (forward/ backward) (°)	
	2,850	3,464	0	4,836	32,000	6 / 10	32,000	6 / 10	
	3,155	3,616	0	5,141	32,000	6 / 10	32,000	6 / 10	
교	3,760	3,919	0	5,746	32,000	6 / 10	32,000	6 / 10	
2 STAGE NFL	4,370	4,224	0	6,356	32,000	6 / 10	32,000	6 / 10	
STA	6,200	5,139	0	8,186	32,000	6 / 10	32,000	6 / 10	
2	6,810	5,444	0	8,716	32,000	6 / 10	32,000	6 / 10	
	9,250	7,174	0	11,746	31,020	6 / 6	31,020	6 / 6	
	9,860	7,479	0	12,356	30,720	6 / 6	29,820	6 / 6	

(1) Note: Carriage with ZERO IN-TO-IN fork positioning not recommended in combination with lift heights above 6200 mm

## STANDARD AND OPTIONAL EQUIPMENT

PERFORMANCE	STD	ΟΡΤ
Mercedes OM936 7.7L Stage V Diesel Engine 180 kW @ 2200 rpm	Stage V	
Cummins QSB 6.7L Stage IIIA diesel engine	Stage IIIA	
Heavy duty air intake	Х	
Raised air intake pre-filter		Х
Hydrodynamic 5-speed ZF WG211 transmission	Х	
AxleTech Drive Axle PRC1756 W4H with oil-immersed brakes (H25XD9/12)	Х	
AxleTech Drive Axle PRC3806 W4H with oil-immersed brakes (H28-32XD9/12)	Х	
DRIVE	STD	OPT
Travel Speed Limiter - unconditional and customer adjustable - pre-set to 20km/hr	Х	
14.00 x 24 24PR Pneumatic Steer and Drive	Х	
14.00 - R24 Michelin XZM radial drive and steer tyres (H25XD9/12)		Х
14.00 - R24 Trelleborg radial drive and steer tyres (H25XD9/12)		Х
16.00 - 25 32PR Pneumatic bias ply drive and steer tyres (H28- 32XD9/12)	Х	
16.00 - 25 32PR Continental straddlemaster bias ply drive and steer tyres (H28-32XD9/12)		Х
16.00 - R25 Michelin XZM radial drive and steer tyres (H28- 32XD9/12)		Х
Spare wheels and tyres		Х
LIFT	STD	OPT
Single stage MONO mast		Х
2-stage non-free lift mast	Х	
2-stage full free lift mast		Х
Mast tilt - 15° Forward / 10° Back		Х
Mast tilt - 6° Forward / 10° Back	Х	V
Mast tilt - 6° Forward / 6° Back Mast Tilt Indicator - Mechanical		X X
Hydraulic Accumulator		X
Pressure compensated lowering	Х	X
HANDLING	STD	ΟΡΤ
3000mm Quick Disconnect Hook Type Dual Function Sideshift Carriage with Simultaneous and Individual Fork Positioner - 410 or 0mm in-to-in (H25XD9/12)	Х	
3000mm Quick Disconnect Hook Type Dual Function Sideshift Carriage with Individual Fork Positioner and 1 Spare Auxiliary Function - 410 or 0mm in-to-in (H25XD9/12)		х
3000mm Quick Disconnect Hook Type Dual Function Sideshift Carriage with Simultaneous and Individual Fork Positioner - 870 or 320mm in-to-in (H25XD9/12)		х
3000mm Quick Disconnect Hook Type Dual Function Sideshift Carriage with Individual Fork Positioner and 1 Spare Auxiliary Function - 870 or 320mm in-to-in (H25XD9/12)		х
3180mm Quick Disconnect Hook Type Dual Function Sideshift Carriage with Simultaneous and Individual Fork Positioner (H28- 32XD9/12)	х	
3180mm Quick Disconnect Hook Type Dual Function Sideshift Carriage with Simultaneous and Individual Fork Positioner - 880 or 330mm in-to-in (H28-32XD9/12)		х
3180mm Quick Disconnect Hook Type Dual Function Sideshift Carriage with Individual Fork Position and 1 Spare Auxiliary Function - 420 or 0mm in-to-in (H28-32XD9/12)		х
3180mm Quick Disconnect Hook Type Dual Function Sideshift Carriage with Individual Fork Positioner and 1 Spare Auxiliary Function - 880 or 330mm in-to-in (H28-32XD9/12)		х
3100mm Pin Type Side Shift frame Carriage (H25XD9/12)		Х
3100mm Pin Type Carriage with Mechanical Fork Locks		х
(H25XD9/12) 3280mm Pin Type Carriage with Mechanical Fork Locks (H28XD-		
32XD9/12) 3100mm Pin Type Carriage with Individual Fork Positioner		X
(H25XD9/12)		Х

2280mm Pin Type Carlage with Individual Fork Positioner (#28XD-32XD9/12)X3100mm Pin Type Apron-Style Sideshift Carriage (H28XD- 32XD9/12)X3200mm Pin Type Apron-Style Sideshift Carriage with Individual Fork Positoner (H28XD-32XD9/12)X3200mm Pin Type Apron-Style Sideshift Carriage with Individual Fork Positoner (H28XD-32XD9/12)X1500mm Pin Type Apron-Style Sideshift Carriage with Individual Fork Positoner (H28XD-32XD9/12)X1600mm Pin Type Coil Ram - 356mm Outside Diameter - 600mm Top of Ram to GroundX1800mm Hook Type Coil Ram - 356mm Outside Diameter - 600mm Top of Ram to GroundX1800mm Hook Type Coil Ram - 356mm Outside Diameter - 600mm Top of Ram to GroundX1800mm Hook Type Coil Ram - 356mm Outside Diameter - 600mm Top of Ram to GroundX1800mm Hook Type Coil Ram - 356mm Outside Diameter - 600mm Top of Ram to GroundX1800mm Hook Type Coil Ram - 356mm Outside Diameter - 600mm Top of Ram to GroundX1800mm Hook Type Coil Ram - 356mm Outside Diameter - 600mm Top of Ram to GroundX1800mm Hook Type Coil Ram - 356mm Outside Diameter - 600mm Top of Ram to GroundX1800mm Hook Type Coil Ram - 356mm Outside Diameter - 600mm Top of Ram to GroundX1800mm Hook Type Coil Ram - 356mm Outside Diameter - 600mm Top of Ram to GroundX1800m Hook Type Coil Ram - 356mm Outside Diameter - 600mm Top of Ram to GroundX1800m Hook Type Coil Ram - 356mm Outside Diameter - 600mm Top of Ram to Ram diameter - 600mm Top of Ram to R			
3280mm Pin Type Apron-Style Sideshift Carriage with Individual fork Positioner (H25X09/12)X3280mm Pin Type Apron-Style Sideshift Carriage with Individual fork Positioner (H25X09/12)X3280mm Pin Type Apron-Style Sideshift Carriage with Individual fork Positioner (H25X09/12)X1500mm Pin Type Coll Ram - 356mm Outside Diameter - 600mm Top of Ram to GroundX1800mm Hook Type Coll Ram - 356mm Outside Diameter - 600mm Top of Ram to GroundX1800mm Hook Type Coll Ram - 356mm Outside Diameter - 600mm Top of Ram to GroundX1800mm Hook Type Coll Ram - 356mm Outside Diameter - 600mm Top of Ram to GroundX1800mm Hook Type Coll Ram - 356mm Outside Diameter - 600mm Top of Ram to GroundX1800mm Hook Type Coll Ram - 356mm Outside Diameter - 600mm Top of Ram to GroundX1800mm Hook Type Coll Ram - 356mm Outside Diameter - 600mm Top of Ram to GroundX2440mm Long x 105mm Thick x 280mm Wide - Pin Type Forks with Standard Taper (H23-S2XD9/12)X2440mm Long x 105mm Thick x 200mm Wide - Hook Type Forks with Standard Taper (H23-S2XD9/12)X2440mm Long x 110mm Thick x 300mm Wide - Hook Type Forks with Standard Taper (H23-S2XD9/12)X2440mm Long x 110mm Thick x 300mm Wide - Hook Type Forks with Standard Taper (H23-S2XD9/12)X2440mm Long x 110mm Thick x 300mm Wide - Nok Type Forks with Standard Taper (H23-S2XD9/12)X2440mm Long x 110mm Thick x 300mm Wide - Mook Type Forks with Standard Taper (H23-S2XD9/12)X2440mm Long x 110mm Thick x 300mm Wide - Nok Type Forks with Standard Taper (H23-S2XD9/12)X2440mm Long x 110mm Thick x 30	3280mm Pin Type Carriage with Individual Fork Positioner (H28XD-32XD9/12)		х
3280mm Pin Type Apron-Style Sideshift Carriage with Individual fork Positioner (H25X09/12)X3280mm Pin Type Apron-Style Sideshift Carriage with Individual fork Positioner (H25X09/12)X3280mm Pin Type Apron-Style Sideshift Carriage with Individual fork Positioner (H25X09/12)X1500mm Pin Type Coll Ram - 356mm Outside Diameter - 600mm 	· · · · · ·		х
Fork Positoner (H25X09/12)Image: Approximate the state of	3280mm Pin Type Apron-Style Sideshift Carriage (H28XD-		
Fork Positioner (H28XD-32XD9/12)Image: Constant of the stant of the sta	3100mm Pin Type Apron-Style Sideshift Carriage with Individual Fork Postioner (H25XD9/12)		х
Top of Ram to GroundA1800mm Pin Type Coil Ram - 356mm Outside Diameter - 600mmX1500mm Hook Type Coil Ram - 356mm Outside Diameter - 600mm Top of Ram to GroundX1800mm Hook Type Coil Ram - 356mm Outside Diameter - 600mm Top of Ram to GroundX1800mm Hook Type Coil Ram - 356mm Outside Diameter - 600mm Top of Ram to GroundX1800mm Hook Type Coil Ram - 356mm Outside Diameter - 600mm Top of Ram to GroundX1800mm Hook Type Coil Ram - 356mm Outside Diameter - 600mm Top of Ram to GroundX2440mm Long x 105mm Thick x 200mm Wide - Pin Type Forks with Standard Taper (H28-32XD9/12)X2440mm Long x 105mm Thick x 300mm Wide - Hook Type Forks with Standard Taper (H28-32XD9/12)X2440mm Long x 110mm Thick x 300mm Wide - Hook Type Forks with Standard Taper (H28-32XD9/12)X2440mm Long x 110mm Thick x 300mm Wide - Hook Type Forks with Standard Taper (H28-32XD9/12)X2440mm Long x 110mm Thick x 300mm Wide - Hook Type Forks with Standard Taper (H28-32XD9/12)X2440mm Long x 110mm Thick x 300mm Wide - Hook Type Forks with Standard Taper (H28-32XD9/12)X2440mm Long x 110mm Thick x 300mm Wide - Hook Type Forks with Standard Taper (H28-32XD9/12)X240mm Long x 110mm Thick x 300mm Wide - Hook Type Forks with Standard Taper (H28-32XD9/12)X2400m Long x 110mm Thick x 300mm Wide - Hook Type Forks with Standard Taper (H28-32XD9/12)X2400m Long x 110mm Thick x 300mm Wide - Hook Type Forks with Standard Taper (H28-32XD9/12)X2400m Long x 110mm Thick x 300mm Mide - Hook Type Forks with Standard Tape (H28-32XD9/12)X <tr< td=""><td>3280mm Pin Type Apron-Style Sideshift Carriage with Individual Fork Positioner (H28XD-32XD9/12)</td><td></td><td>Х</td></tr<>	3280mm Pin Type Apron-Style Sideshift Carriage with Individual Fork Positioner (H28XD-32XD9/12)		Х
Top of Ram to GroundA1500mm Hook Type Coil Ram - 356mm Outside Diameter - 600mm Top of Ram to GroundX1800mm Hook Type Coil Ram - 356mm Outside Diameter - 600mm Top of Ram to GroundX2440mm Long x 105mm Thick x 280mm Wide - Pin Type Forks with Standard Taper (H25X09/12)X2440mm Long x 105mm Thick x 280mm Wide - Hook Type Forks with Standard Taper (H25X09/12)X2440mm Long x 105mm Thick x 280mm Wide - Hook Type Forks with Standard Taper (H25X09/12)X2440mm Long x 105mm Thick x 300mm Wide - Hook Type Forks with Standard Taper (H25-32X09/12)X2440mm Long x 110mm Thick x 300mm Wide - Hook Type Forks with Standard Taper (H25-32X09/12)X2440mm Long x 110mm Thick x 300mm Wide - Hook Type Forks with Standard Taper (H25-32X09/12)X2440mm Long x 110mm Thick x 300mm Wide - Hook Type Forks with Standard Taper (H25-32X09/12)X2440mm Long x 110mm Thick x 300mm Wide - Hook Type Forks with Standard Taper (H25-32X09/12)X2400mm Long x 10mm Thick x 300mm Wide - Hook Type Forks with Standard Taper (H25-32X09/12)X2400mm Long x 10mm Thick x 300mm Wide - Hook Type Forks with Standard Taper (H25-32X09/12)X2400m Long x 10mm Thick x 300mm Wide - Hook Type Forks with Standard Taper (H25-32X09/12)X2400m Long x 110mm Thick x 300mm Wide - Hook Type Forks with Standard Taper (H25-32X09/12)X2400m Long x 110mm Thick x 300mm Wide - Hook Type Forks with Standard Taper (H25-32X09/12)X2400m Long x 110mm Thick x 300mm Nide - Hook Type Forks with Standard Tape (H25-32X09/12)X2400m Long x 110mm Thick x 300mm Atter Pin Pin Pin Pin P	1500mm Pin Type Coil Ram - 356mm Outside Diameter - 600mm Top of Ram to Ground		Х
600mm Top of Ram to Ground✓1800mm Hock Type Coil Ram - 356mm Outside Diameter - 600mm Top of Ram to Ground✓2440mm Long x 105mm Thick x 280mm Wide - Pin Type Forks with Standard Taper (H28-300PH2)✓2440mm Long x 105mm Thick x 280mm Wide - Pok Type Forks with Standard Taper (H28-32XD9/12)X2440mm Long x 105mm Thick x 280mm Wide - Hook Type Forks with Standard Taper (H28-32XD9/12)X2440mm Long x 101mm Thick x 300mm Wide - Hook Type Forks with Standard Taper (H28-32XD9/12)X2440mm Long x 110mm Thick x 300mm Wide - Hook Type Forks with Standard Taper (H28-32XD9/12)X2440mm Long x 110mm Thick x 300mm Wide - Hook Type Forks with Standard Taper (H28-32XD9/12)X2440ms Long x 110mm Thick x 300mm Wide - Hook Type Forks with Standard Taper (H28-32XD9/12)X2440ms Long x 110mm Thick x 300mm Wide - Hook Type Forks with Standard Taper (H28-32XD9/12)X2440ms Long x 110mm Thick x 300mm Wide - Hook Type Forks with Standard Taper (H28-32XD9/12)X2440ms Long x 110mm Thick x 300mm Wide - Mook Type Forks with Standard Taper (H28-32XD9/12)X2440ms Long x 110mm Thick x 300mm Wide - Mook Type Forks with Standard Taper (H28-32XD9/12)X2440ms Long x 110mm Thick x 300mm Wide - Mook Type Forks with Standard Taper (H28-32XD9/12)X2440ms Long x 110mm Thick x 300mm Wide - Mook Type Forks with Standard Taper (H28-32XD9/12)X2440ms Long x 110mm Thick x 300mm Wide - Mook Type Forks with Standard Taper (H28-32XD9/12)X2440ms Long x 110mm Thick x 300mm Wide - Mook Type Forks with Standard Taper (H28-32XD9/12)X1500 Long x 110mm Thick			Х
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with Standard Taper (H25XD9/12)with Standard Taper (H25XD9/12)X2440mm Long x 105mm Thick x 300mm Wide - Pin Type Forks with Standard Taper (H28-32XD9/12)X2440mm Long x 105mm Thick x 300mm Wide - Hook Type Forks with Standard Taper (H28-32XD9/12)X2440mm Long x 110mm Thick x 300mm Wide - Pin Type Forks with Standard Taper (H28-32XD9/12)X2440mm Long x 110mm Thick x 300mm Wide - Hook Type Forks with Standard Taper (H28-32XD9/12)X2440mm Long x 110mm Thick x 300mm Wide - Hook Type Forks with Standard Taper (H28-32XD9/12)XERGONOMICSSTDOPTOpen operator compartment (without doors and screens)XXEnclosed operator compartment for serviceXXIsolated cabin mounting for low noise and vibrationXXOperator presence systemXXMechanical suspension seatXXLow backrest seatXXVinyl seat coverXXVinyl seat coverXXSeat heatingXXSeat heatingXXCot hookXXFront, top and rear wipers with individual controlled washersXT'-pattern front wiper (Enclosed operator cabin)XT'-pattern front wiper (Enc	600mm Top of Ram to Ground		Х
with Standard Taper (H28-32X09/12)2.440mm Long x 10mm Thick x 300mm Wide - Hook Type	with Standard Taper (H25XD9/12)		Х
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with Standard Taper (H28-32XD9/12)X2440mm Long x 110mm Thick x 300mm Wide - Pin Type Forks with Standard Taper (H28-32XD9/12)XERGONOMICSSTDOPTOpen operator compartment (without doors and screens)XXEnclosed operator cabinXXPowered tilt operator compartment for serviceXXIsolated cabin mounting for low noise and vibrationXXOperator presence systemXXMechanical suspension seatXXLow backrest seatXXHigh backrest seatXXCloth seat coverXXSeat ventilationXXSeat ventilationXXPoint high visibility seatbeltXXLateral seat sliding mechanismXXFront, top and rear wipers with individual controlled washersXXSeat heatingXXSeat ventilationXXCoar hookXXFront, top and rear wipers with individual controlled washersXTip-pattern front wiper (Enclosed operator cabin)XXTip-pattern front wiper (Enclosed operator cabin)XXVire mesh installed on top of operator compartmentXXVire mesh installed on top of operator cabin)XXTip-pattern front wiper (Enclosed operator cabin)XXTip-pattern front wiper (Enclosed operator cabin)XXTip-pattern front wiper (Enclosed operator cabin)XX <td>with Standard Taper (H25XD9/12)</td> <td></td> <td></td>	with Standard Taper (H25XD9/12)		
with Standard Taper (H28-32XD9/12)A2440mm Long x 110mm Thick x 300mm Wide - Hook Type Forks with Standard Taper (H28-32XD9/12)XERGONOMICSSTDOPTOpen operator compartment (without doors and screens)XXPowered III operator compartment for serviceXXManual tilt operator compartment for serviceXXIsolated cabin mounting for low noise and vibrationXXOperator presence systemXXMechanical suspension seatXXLow backrest seatXXUsbackrest seatXXUsbackrest seatXXVinyl seat coverXXVinyl seat coverXXSeat heatingXXSeat heatingXXCoat hookXXFloor matXXCoat hookXXT'-pattern front wiper (Enclosed operator cabin)XXYir-pattern front wiper (Enclosed operator cabin)XXTined operator compartment top windowXXVing lass shield in front of front windowXXYir-pattern front wiper (Enclosed operator cabin)XXYir-pattern front wiper (Enclosed operator cabin) </td <td>with Standard Taper (H28-32XD9/12)</td> <td>Х</td> <td>V</td>	with Standard Taper (H28-32XD9/12)	Х	V
with Standard Taper (H28-32XD9/12)KERGONOMICSSTDOPTOpen operator compartment (without doors and screens)XXEnclosed operator cabinXXPowered till operator compartment for serviceXXIsolated cabin mounting for low noise and vibrationXXOperator presence systemXXMechanical suspension seatXXLow backrest seatXXLow backrest seatXXHigh backrest seatXXCloth seat coverXXVinyl seat coverXXSeat heatingXXSeat heatingXXCoth hookXXFront, top and rear wipers with individual controlled washersX"I"-pattern front wiper (Enclosed operator cabin)XXTinted operator compartment top windowXXVire mesh installed on top of operator cabin)XXSteil bars under armoured glass top window (enclosed operator cabin)XXVire mesh installed on top of operator compartmentXXOperator shield wire meshXXXTouchpoint™ mini levers hydraulic control integrated in control armXXOperator compartment integrated in control armXXSetter set	with Standard Taper (H28-32XD9/12)		
Open operator compartment (without doors and screens)XEnclosed operator cabinXPowered tilt operator compartment for serviceXManual tilt operator compartment for serviceXIsolated cabin mounting for low noise and vibrationXOperator presence systemXMechanical suspension seatXAir suspension seatXLow backrest seatXHigh backrest seatXAdditional armrest on left sideXCloth seat coverXVinyl seat coverXSeat heatingXSeat heatingXFront, top and rear wipers with individual controlled washersXTop window with armoured glass (Enclosed operator cabin)XTirted operator compartment top windowXPlexiglass shield in front of front windowXYir Integrated performance displayXOperator shield wire meshXOperator mesh installed on top of operator cabin)XYir Integrated performance displayXOperator compartment top windowXVire mesh installed on top of operator compartmentXOperator shield wire meshXOperator shield wire meshXOperator presence shield wire meshXOperator compartment integrated in control armX	with Standard Taper (H28-32XD9/12)	OTD.	
Inclused operator cabinXPowered tilt operator compartment for serviceXManual tilt operator compartment for serviceXIsolated cabin mounting for low noise and vibrationXOperator presence systemXMechanical suspension seatXAir suspension seatXLow backrest seatXUperator presence systemXLow backrest seatXLow backrest seatXAditional armest on left sideXCloth seat coverXYinyl seat coverXSeat heatingXSeat ventilationX2-point high visibility seatbeltXLateral seat sliding mechanismXFront, top and rear wipers with individual controlled washersXThey and rear wipers with individual controlled washersXTime doperator compartment top window (enclosed operator cabin)XTinted operator compartment top windowXVirie mesh installed on top of operator cabin)XYir Integrated performance digasyXOperator shield wire meshXYir Integrated performance diplayXYir Integrated performance diplayXOperator fine wire shydraulic control integrated in control armX			OPI
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Cloth seat coverXVinyl seat coverXSeat heatingXSeat heatingXSeat ventilationX2-point high visibility seatbeltXLateral seat sliding mechanismXFloor matXCoat hookXFront, top and rear wipers with individual controlled washersX"I"-pattern front wiper (Enclosed operator cabin)X"I"-pattern front wiper (Enclosed operator cabin)XTop window with armoured glass (Enclosed operator cabin)XSteel bars under armoured glass top window (enclosed operator cabin)XTinted operator compartment windows (all)XTinted operator compartment top windowXVire mesh installed on top of operator compartmentXVire mesh installed on top of operator compartmentX7" Integrated performance displayX7" Integrated performance displayXJoystick hydraulic control integrated in control armX	High backrest seat		Х
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Seat heatingXSeat ventilationX2-point high visibility seatbeltXLateral seat sliding mechanismXFloor matXCoat hookXFront, top and rear wipers with individual controlled washersX"I"-pattern front wiper (Enclosed operator cabin)X"I"-pattern front wiper (Enclosed operator cabin)XTop window with armoured glass (Enclosed operator cabin)XSteel bars under armoured glass top window (enclosed operator cabin)XTinted operator compartment windows (all)XTinted operator compartment top windowXVire mesh installed on top of operator compartmentXVire mesh installed on top of operator compartmentX7" Integrated performance displayX7" Integrated performance displayXJoystick hydraulic control integrated in control armX	Cloth seat cover		Х
Seat ventilationX2-point high visibility seatbeltXLateral seat sliding mechanismXFloor matXCoat hookXFront, top and rear wipers with individual controlled washersX"H"-pattern front wiper (Enclosed operator cabin)X"I"-pattern front wiper (Enclosed operator cabin)XSteel bars under armoured glass (Enclosed operator cabin)XSteel bars under armoured glass top window (enclosed operator cabin)XTinted operator compartment windows (all)XTinted operator compartment top windowXPlexiglass shield in front of front windowXWire mesh installed on top of operator compartmentXOperator shield wire meshX7" Integrated performance displayXTouchpoint™ mini levers hydraulic control integrated in control armX	Vinyl seat cover	Х	
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Lateral seat sliding mechanismXFloor matXCoat hookXCoat hookXFront, top and rear wipers with individual controlled washersX"I"-pattern front wiper (Enclosed operator cabin)X"I"-pattern front wiper (Enclosed operator cabin)XTop window with armoured glass (Enclosed operator cabin)XSteel bars under armoured glass top window (enclosed operator cabin)XTinted operator compartment windows (all)XTinted operator compartment top windowXPlexiglass shield in front of front windowXWire mesh installed on top of operator compartmentXOperator shield wire meshX7" Integrated performance displayXTouchpoint™ mini levers hydraulic control integrated in controlXJoystick hydraulic control integrated in control armX	Seat ventilation		Х
Floor matXCoat hookXCoat hookXFront, top and rear wipers with individual controlled washersX"I"-pattern front wiper (Enclosed operator cabin)X"I"-pattern front wiper (Enclosed operator cabin)XTop window with armoured glass (Enclosed operator cabin)XSteel bars under armoured glass top window (enclosed operator cabin)XTinted operator compartment windows (all)XTinted operator compartment top windowXPlexiglass shield in front of front windowXWire mesh installed on top of operator compartmentXOperator shield wire meshX7" Integrated performance displayXTouchpoint™ mini levers hydraulic control integrated in control armX	2-point high visibility seatbelt	Х	
Coat hookXFront, top and rear wipers with individual controlled washersX"H"-pattern front wiper (Enclosed operator cabin)X"I"-pattern front wiper (Enclosed operator cabin)X"I"-pattern front wiper (Enclosed operator cabin)XSteel bars under armoured glass (Enclosed operator cabin)XSteel bars under armoured glass top window (enclosed operator cabin)XTinted operator compartment windows (all)XTinted operator compartment top windowXPlexiglass shield in front of front windowXWire mesh installed on top of operator compartmentXOperator shield wire meshX"" Integrated performance displayXTouchpoint™ mini levers hydraulic control integrated in control armX	Lateral seat sliding mechanism		Х
Front, top and rear wipers with individual controlled washersXFront, top and rear wipers with individual controlled washersX"H"-pattern front wiper (Enclosed operator cabin)X"I"-pattern front wiper (Enclosed operator cabin)XTop window with armoured glass (Enclosed operator cabin)XSteel bars under armoured glass top window (enclosed operator cabin)XTinted operator compartment windows (all)XTinted operator compartment top windowXPlexiglass shield in front of front windowXWire mesh installed on top of operator compartmentXOperator shield wire meshX7" Integrated performance displayXTouchpoint™ mini levers hydraulic control integrated in control armX	Floor mat	Х	
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arm Joystick hydraulic control integrated in control arm X	· · · ·	Х	
	arm	Х	
Steering wheel with spinner knob X			Х
	Steering wheel with spinner knob	Х	

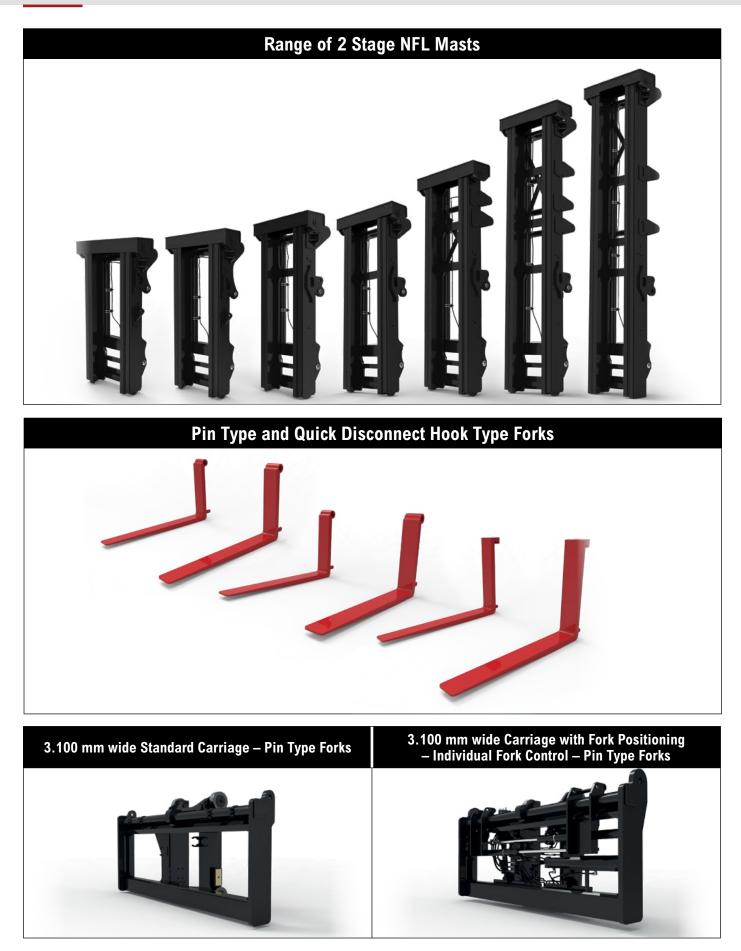
## STANDARD AND OPTIONAL EQUIPMENT

Directional control lever		Х
Hyster Monotrol pedal directional control		Х
Directional control on Mini-levers or Joystick	Х	
Park brake - manual	Х	
Park brake - automatic		Х
Heater with adjustable speed fan (enclosed operator cabin)	Х	
Diesel fueled cabin heater		Х
Telescoping and tilting steering column	Х	
USB outlet inside armrest	Х	
24-12 DC converter with 2 sockets and 2 USB outlets		х
Automatic climate control		Х
Reading light		X
Sun shades on top and rear		X
Sun visors front window		X
Trainer seat		X
Recirculation fan		X
		X
Accessory mounting bar on cab front right pillar		
Document holder on cab front right pillar		X
Heated top- and/or rear window		X
Radio preparation set-up (wiring, two speakers and antenna)		Х
Bluetooth radio with 2 speakers and antenna		Х
VISIBILITY	STD	ОРТ
Exterior mirrors mounted to cab		Х
Interior wide angle mirrors	Х	
Rear view camera system		Х
Radar object detection system		Х
Halogen work lights	Х	
LED work lights		х
High Performance LED work lights		Х
0		
Two head lights mounted on front fenders		Х
Two head lights mounted on front fenders Mast mounted work lights		X
Mast mounted work lights		
Mast mounted work lights Four cabin mounted work lights	X	Х
Mast mounted work lights Four cabin mounted work lights Two rearward work lights mounted on the cabin	X	Х
Mast mounted work lights Four cabin mounted work lights Two rearward work lights mounted on the cabin LED stop/tail/brake lights	X	Х
Mast mounted work lights         Four cabin mounted work lights         Two rearward work lights mounted on the cabin         LED stop/tail/brake lights         Turn signals, hazard and marker lights (LED)	X X	X X
Mast mounted work lights         Four cabin mounted work lights         Two rearward work lights mounted on the cabin         LED stop/tail/brake lights         Turn signals, hazard and marker lights (LED)         OPERATION	X	X X OPT
Mast mounted work lights Four cabin mounted work lights Two rearward work lights mounted on the cabin LED stop/tail/brake lights Turn signals, hazard and marker lights (LED) OPERATION Air horn 112 dBA	X X STD	X X
Mast mounted work lights         Four cabin mounted work lights         Two rearward work lights mounted on the cabin         LED stop/tail/brake lights         Turn signals, hazard and marker lights (LED)         OPERATION         Air horn 112 dBA         Electric horn 105 dBA	X X	X X OPT
Mast mounted work lights         Four cabin mounted work lights         Two rearward work lights mounted on the cabin         LED stop/tail/brake lights         Turn signals, hazard and marker lights (LED)         OPERATION         Air horn 112 dBA         Electric horn 105 dBA         Audible alarm – reverse direction activated 82–102 dB(A), self-	X X STD	X X OPT
Mast mounted work lights Four cabin mounted work lights Two rearward work lights mounted on the cabin LED stop/tail/brake lights Turn signals, hazard and marker lights (LED) <b>OPERATION</b> Air horn 112 dBA Electric horn 105 dBA Audible alarm – reverse direction activated 82–102 dB(A), self- adjusting	X X STD	X X OPT X X
Mast mounted work lights Four cabin mounted work lights Two rearward work lights mounted on the cabin LED stop/tail/brake lights Turn signals, hazard and marker lights (LED) <b>OPERATION</b> Air horn 112 dBA Electric horn 105 dBA Audible alarm – reverse direction activated 82–102 dB(A), self- adjusting Audible alarm – reverse direction white noise	X X STD	X X OPT X X X
Mast mounted work lights         Four cabin mounted work lights         Two rearward work lights mounted on the cabin         LED stop/tail/brake lights         Turn signals, hazard and marker lights (LED)         OPERATION         Air horn 112 dBA         Electric horn 105 dBA         Audible alarm – reverse direction activated 82–102 dB(A), self- adjusting         Audible alarm – reverse direction white noise         Forward / reverse motion alarm	X X STD	X X OPT X X X X X X
Mast mounted work lights         Four cabin mounted work lights         Two rearward work lights mounted on the cabin         LED stop/tail/brake lights         Turn signals, hazard and marker lights (LED)         OPERATION         Air horn 112 dBA         Electric horn 105 dBA         Audible alarm – reverse direction activated 82–102 dB(A), self- adjusting         Audible alarm – reverse direction white noise         Forward / reverse motion alarm         Blue LED spotlight – rear / front and rear	X X STD	X X OPT X X X X X X X X
Mast mounted work lights         Four cabin mounted work lights         Two rearward work lights mounted on the cabin         LED stop/tail/brake lights         Turn signals, hazard and marker lights (LED)         OPERATION         Air horn 112 dBA         Electric horn 105 dBA         Audible alarm – reverse direction activated 82–102 dB(A), self- adjusting         Audible alarm – reverse direction white noise         Forward / reverse motion alarm         Blue LED spotlight – rear / front and rear         Seatbelt interlock for engine start	X X STD	X X OPT X X X X X X X X X X X
Mast mounted work lights         Four cabin mounted work lights         Two rearward work lights mounted on the cabin         LED stop/tail/brake lights         Turn signals, hazard and marker lights (LED)         OPERATION         Air horn 112 dBA         Electric horn 105 dBA         Audible alarm – reverse direction activated 82–102 dB(A), self-adjusting         Audible alarm – reverse direction white noise         Forward / reverse motion alarm         Blue LED spotlight – rear / front and rear         Seatbelt interlock for engine start         Tyre pressure monitoring system	X X STD	X X OPT X X X X X X X X X X X X
Mast mounted work lightsFour cabin mounted work lightsTwo rearward work lights mounted on the cabinLED stop/tail/brake lightsTurn signals, hazard and marker lights (LED)OPERATIONAir horn 112 dBAElectric horn 105 dBAAudible alarm – reverse direction activated 82–102 dB(A), self-adjustingAudible alarm – reverse direction white noiseForward / reverse motion alarmBlue LED spotlight – rear / front and rearSeatbelt interlock for engine startTyre pressure monitoring systemAir-conditioning or automatic climate control off with open door	X X STD	X X OPT X X X X X X X X X X X
Mast mounted work lights         Four cabin mounted work lights         Two rearward work lights mounted on the cabin         LED stop/tail/brake lights         Turn signals, hazard and marker lights (LED)         OPERATION         Air horn 112 dBA         Electric horn 105 dBA         Audible alarm – reverse direction activated 82–102 dB(A), self- adjusting         Audible alarm – reverse direction white noise         Forward / reverse motion alarm         Blue LED spotlight – rear / front and rear         Seatbelt interlock for engine start         Tyre pressure monitoring system         Air-conditioning or automatic climate control off with open door         Automatic truck shutdown with timer	X X STD	X X OPT X X X X X X X X X X X X X
Mast mounted work lightsFour cabin mounted work lightsTwo rearward work lights mounted on the cabinLED stop/tail/brake lightsTurn signals, hazard and marker lights (LED)OPERATIONAir horn 112 dBAElectric horn 105 dBAAudible alarm – reverse direction activated 82–102 dB(A), self-adjustingAudible alarm – reverse direction white noiseForward / reverse motion alarmBlue LED spotlight – rear / front and rearSeatbelt interlock for engine startTyre pressure monitoring systemAir-conditioning or automatic climate control off with open doorAutomatic truck shutdown with timerLockable battery disconnect switch	X X STD	X X OPT X X X X X X X X X X X X X
Mast mounted work lightsFour cabin mounted work lightsTwo rearward work lights mounted on the cabinLED stop/tail/brake lightsTurn signals, hazard and marker lights (LED)OPERATIONAir horn 112 dBAElectric horn 105 dBAAudible alarm – reverse direction activated 82–102 dB(A), self-adjustingAudible alarm – reverse direction white noiseForward / reverse motion alarmBlue LED spotlight – rear / front and rearSeatbelt interlock for engine startTyre pressure monitoring systemAir-conditioning or automatic climate control off with open doorAutomatic truck shutdown with timerLockable battery disconnect switchBattery jump start connector (NATO plug)	X X STD	X X OPT X X X X X X X X X X X X X
Mast mounted work lightsFour cabin mounted work lightsTwo rearward work lights mounted on the cabinLED stop/tail/brake lightsTurn signals, hazard and marker lights (LED)OPERATIONAir horn 112 dBAElectric horn 105 dBAAudible alarm – reverse direction activated 82–102 dB(A), self-adjustingAudible alarm – reverse direction white noiseForward / reverse motion alarmBlue LED spotlight – rear / front and rearSeatbelt interlock for engine startTyre pressure monitoring systemAir-conditioning or automatic climate control off with open doorAutomatic truck shutdown with timerLockable battery disconnect switchBattery jump start connector (NATO plug)Truck Start with key switch and start button	X X STD	X X OPT X X X X X X X X X X X X X X X X X X
Mast mounted work lightsFour cabin mounted work lightsTwo rearward work lights mounted on the cabinLED stop/tail/brake lightsTurn signals, hazard and marker lights (LED)OPERATIONAir horn 112 dBAElectric horn 105 dBAAudible alarm – reverse direction activated 82–102 dB(A), self-adjustingAudible alarm – reverse direction white noiseForward / reverse motion alarmBlue LED spotlight – rear / front and rearSeatbelt interlock for engine startTyre pressure monitoring systemAir-conditioning or automatic climate control off with open doorAutomatic truck shutdown with timerLockable battery disconnect switchBattery jump start connector (NATO plug)Truck Start with key switch and start buttonOperator password (display) for truck start	X X STD	X X OPT X X X X X X X X X X X X X X X X X X X
Mast mounted work lightsFour cabin mounted work lightsTwo rearward work lights mounted on the cabinLED stop/tail/brake lightsTurn signals, hazard and marker lights (LED)OPERATIONAir horn 112 dBAElectric horn 105 dBAAudible alarm – reverse direction activated 82–102 dB(A), self-adjustingAudible alarm – reverse direction white noiseForward / reverse motion alarmBlue LED spotlight – rear / front and rearSeatbelt interlock for engine startTyre pressure monitoring systemAutomatic truck shutdown with timerLockable battery disconnect switchBattery jump start connector (NATO plug)Truck Start with key switch and start buttonOperator password (display) for truck startSeatbelt interlock for truck start	X X STD X	X X OPT X X X X X X X X X X X X X X X X X X
Mast mounted work lightsFour cabin mounted work lightsTwo rearward work lights mounted on the cabinLED stop/tail/brake lightsTurn signals, hazard and marker lights (LED)OPERATIONAir horn 112 dBAElectric horn 105 dBAAudible alarm – reverse direction activated 82–102 dB(A), self-adjustingAudible alarm – reverse direction white noiseForward / reverse motion alarmBlue LED spotlight – rear / front and rearSeatbelt interlock for engine startTyre pressure monitoring systemAutomatic truck shutdown with timerLockable battery disconnect switchBattery jump start connector (NATO plug)Truck Start with key switch and start buttonOperator password (display) for truck startPower distribution group with fuses	X X STD	X X OPT X X X X X X X X X X X X X X X X X X X
Mast mounted work lightsFour cabin mounted work lightsTwo rearward work lights mounted on the cabinLED stop/tail/brake lightsTurn signals, hazard and marker lights (LED)OPERATIONAir horn 112 dBAElectric horn 105 dBAAudible alarm – reverse direction activated 82–102 dB(A), self-adjustingAudible alarm – reverse direction white noiseForward / reverse motion alarmBlue LED spotlight – rear / front and rearSeatbelt interlock for engine startTyre pressure monitoring systemAutomatic truck shutdown with timerLockable battery disconnect switchBattery jump start connector (NATO plug)Truck Start with key switch and start buttonOperator password (display) for truck startSeatbelt interlock for truck start	X STD X X	X X OPT X X X X X X X X X X X X X X X X X X X
Mast mounted work lightsFour cabin mounted work lightsTwo rearward work lights mounted on the cabinLED stop/tail/brake lightsTurn signals, hazard and marker lights (LED)OPERATIONAir horn 112 dBAElectric horn 105 dBAAudible alarm – reverse direction activated 82–102 dB(A), self-adjustingAudible alarm – reverse direction white noiseForward / reverse motion alarmBlue LED spotlight – rear / front and rearSeatbelt interlock for engine startTyre pressure monitoring systemAutomatic truck shutdown with timerLockable battery disconnect switchBattery jump start connector (NATO plug)Truck Start with key switch and start buttonOperator password (display) for truck startPower distribution group with fuses	X X STD X	X X X OPT X X X X X X X X X X X X X X X X X X X
Mast mounted work lightsFour cabin mounted work lightsTwo rearward work lights mounted on the cabinLED stop/tail/brake lightsTurn signals, hazard and marker lights (LED)OPERATIONAir horn 112 dBAElectric horn 105 dBAAudible alarm – reverse direction activated 82–102 dB(A), self-adjustingAudible alarm – reverse direction white noiseForward / reverse motion alarmBlue LED spotlight – rear / front and rearSeatbelt interlock for engine startTyre pressure monitoring systemAutomatic truck shutdown with timerLockable battery disconnect switchBattery jump start connector (NATO plug)Truck Start with key switch and start buttonOperator password (display) for truck startPower distribution group with fusesFuses partially replaced by electric circuit breakers	X STD X X	X X X OPT X X X X X X X X X X X X X X X X X X X
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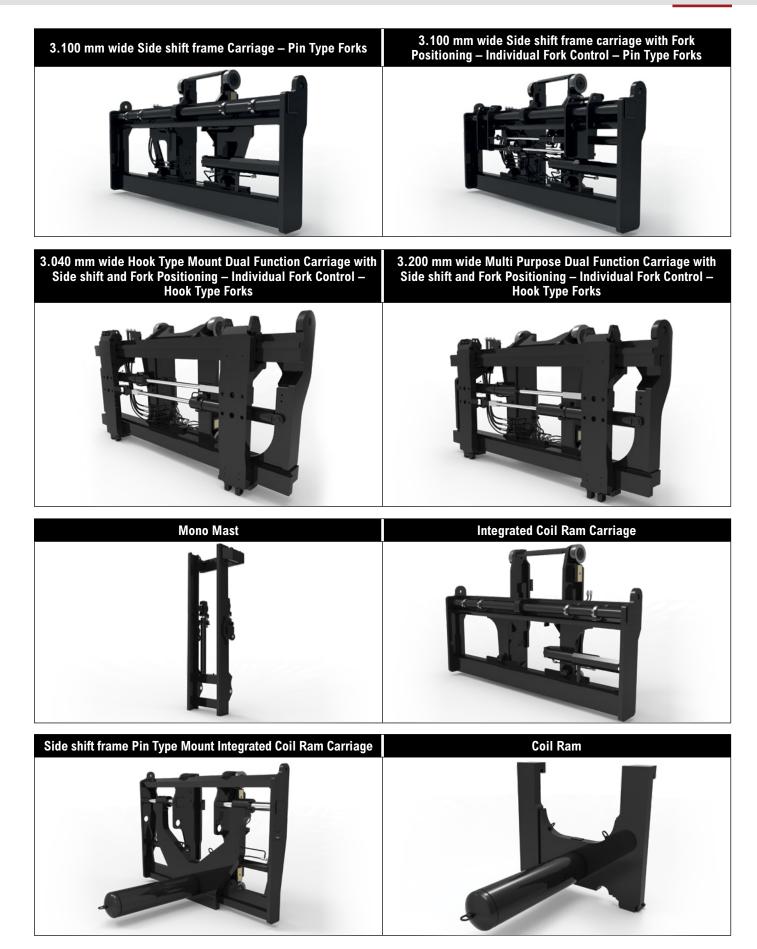
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\*Standard for Stage V and optional for Stage IIIA Other options available through Special Products Engineering Department (SPED). Contact Hyster for details.

## **FRONT END EQUIPMENT**



## **FRONT END EQUIPMENT**







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