

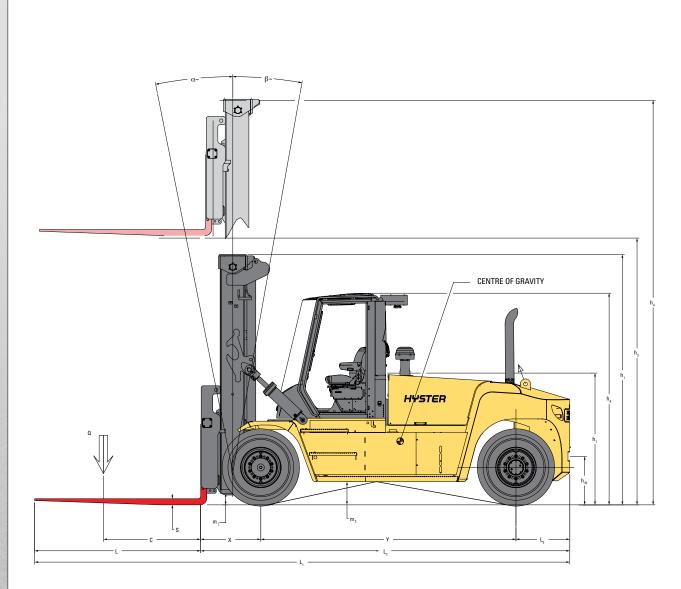


# H16-18XD SERIES TECHNICAL GUIDE





## **DIMENSIONS**



Centre of gravity of unladen truck

 $A_{ST} = W_a + x + I_6 + a$  (if  $b_{12}/2 < b_{13}$ )

 $A_{ST} \quad = \quad W_a \, + \, ((I_6 + x)^{\wedge 2} \, + \, (b_{12}/2 - b_{13})^{\wedge 0.5} \, + \, a \, \, (\text{if} \, \, b_{12}/2 \, > \, b_{13} \, \, \text{and} \, \, W_a \, > \, b_{13+} \, b_{12}/2)$ 

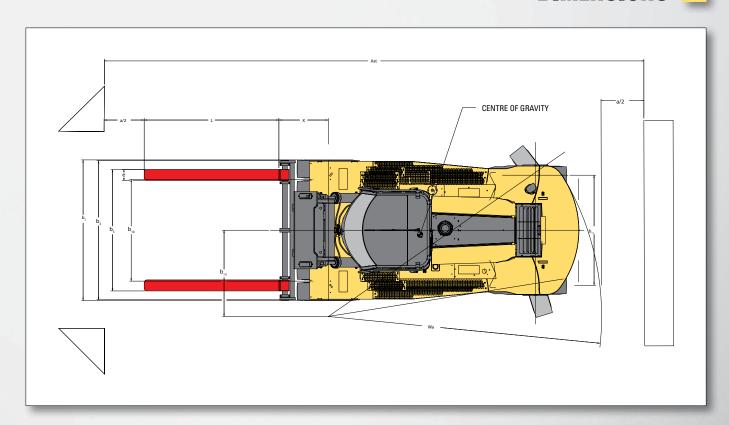
 $A_{ST} = b_{13} + b_{12}/2 \; ((l_6 + x)^{2} + (b_{12}/2 - b_{13})^{0.5} + a \; (if \; b_{12}/2 > b_{13} \; and \; W_a < b_{13+} \; b_{12}/2)$ 

a = Minimum operating clearance = 10% of  $A_{ST}$ 

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

 $l_6$  = load lengths  $b_{12}$  = load width

# DIMENSIONS <



# POWERTRAINS <



Ħ	1-1	Manufacturer			HYSTER	- 6
GENERAL	1-2	Model designation			H16XD9 / H16XD12 / H18XD7.5 / H18XD9	8
쁑	1-3	Powertrain / drivetrain			Diesel	- 6
	7-1	Engine manufacturer / model			Cummins / QSB 6.7	1
	7-1a	EPA / CE compliance			Stage IIIA	
	7-2	Engine power output according to ISO 1585		kW	116	8
	7-2-1	Engine power output - Peak		kW	116	
ENGINE	7-3	Rated speed		min <sup>-1</sup>	2,300	8
S S	7-3-1	Engine torque @rpm (1/min)		Nm/min <sup>-1</sup>	597 @ 1,500	8
	7-4	Number of cylinders / displacement		# / cm3	6 / 6,700	
	7-8	Alternator output		Amps	120	
	7-9	Electrical system voltage		V	24	
	7-10	Battery voltage, rated capacity		V / Ah	24 / 102	
	8-1	Drive control / Transmission		Type / #	Hydrodynamic transmission	
	8-2	Transmission manufacturer / type		Type / #	ZF / WG161	
ш	8-4	Transmission speeds forward / backward		#	3/3	
DRIVE	8-5	Coupling		Туре	Torque Converter	
_	8-6	Wheel drive / drive axle manufacturer / type		Type / #	Kessler D81	
	8-11	Service brake		Туре	Oil immersed (wet) disc	
	8-12	Parking brake		Туре	Spring applied, dry disc on drive axle	
	10-1	Operating pressure for attachments		bar	19.5	100
	10-2	Oil volume for attachments		I/m	100	60
	10-3	Hydraulic tank capacity		I	140	
	10-4	Fuel tank capacity		Į.	206	200
MISC	10-5	Steering design			Hydraulic power steering	
	10-6	Number of steering rotation			5.4	200
	10-7	Sound pressure level at driver's seat	Lpaz	dB(A)	TBC	
	10-7-1	Sound power level during the working cycle	Lwaz	dB	109.5	200
	10-7-1	Towing coupling, model / type			Yes / Pin	
		The same of the sa	STATE OF THE PERSON			-

## > H16XD9 / H16XD12 SPECIFICATIONS

	1-1	Manufacturer			HYS	TER	HYS	TER
	1-2	Model designation			H16	XD9	H16)	(D12
Ι.	1-3	Powertrain / drivetrain			Die	sel	Die	sel
I W	1-4	Operator type			Sea	ted	Sea	ted
GENERAL	1-5	Load capacity at load center, nominal (1)	Q	kg	16,0	000	16,	000
9	1-6	Load center distance	С	mm	90	00	1,2	.00
	1-8	Load distance	х	mm	97	<b>'</b> 3	97	73
	1-9	Wheelbase	у	mm	3,7	50	3,7	50
ΙE	2-1	Service weight (1)		kg	21,8	337	23,	337
WEIGHT	2-2	Axle loading with load, front / rear		kg	35,318	2,519	36,537	2,799
3	2-3	Axle loading without load, front / rear		kg	11,326	10,510	11,266	12,071
	3-1	Tyre type			Pneu	matic	Pneu	matic
	3-2	Tyre size, front			12.00 R 20		12.00	R 20
WHEELS	3-3	Tyre size, rear			12.00 R 20		12.00	R 20
I #	3-5	Wheels, number front / rear (x = driven wheels)			4X	/ 2	4X	/ 2
	3-6	Tread, front	b <sub>10</sub>	mm	2,2	18	2,2	118
	3-7	Tread, rear	b <sub>11</sub>	mm	1,9	94	1,9	94
	4-1	Mast tilt, forward / backward	$\alpha/\beta$	deg	6°/	10°	6°/	10°
	4-2	Height, mast lowered	h <sub>1</sub>	mm	3,9	85	3,9	85
	4-3	Free lift	h <sub>2</sub>	mm	(	)	(	)
	4-4	Lift	h <sub>3</sub>	mm	4,4	94	4,4	94
	4-5	Height, mast extended	h <sub>4</sub>	mm	6,2	32	6,232	
	4-7	Height of overhead guard (closed cab)	h <sub>6</sub>	mm	3,0	83	3,083	
	4-7-1	Height of overhead guard (closed cab)	h <sub>6</sub>	mm	3,110		3,110	
	4-7-2	Height of overhead guard (closed cab w/ strobe light)	h <sub>6</sub>	mm	3,110		3,110	
	4-7-3	Height of overhead guard (closed cab w/ work lights)	h <sub>6</sub>	mm	3,205		3,205	
	4-7-4	Height of overhead guard (closed cab w/ work lights)	h <sub>6</sub>	mm	3,259		3,259	
	4-7-5	Height of overhead guard (closed cab w/ aircon & strobe light)	h <sub>6</sub>	mm	3,235		3,235 1,903	
	4-8	Seat height to SIP	h <sub>7</sub>	mm	1,903			
ş	4-12	Coupling height	h <sub>10</sub>	mm	713		7	
DIMENSIONS	4-16 4-19	Overhang	l <sub>5</sub>	mm	<b>791</b> 7,954		79	
	4-19	Overall length  Length to face of forks	l <sub>1</sub>	mm	7,9 5,5		7,9 5,5	
	4-21	Overall width	l <sub>2</sub> b <sub>2</sub>	mm	2,5		2,5	
	4-22	Fork dimensions ISO 2331	s/e/l	mm	100 / 200		100 / 20	
1	4-23	Fork carriage type	5/6/1			shift/Fork Positioning	Dual Function - Sides	
8	4-24	Fork carriage width	b <sub>3</sub>	mm	2,5		2,5	
8	4-25	Width over forks (min / max)	b <sub>5</sub>	mm	575	2,425	575	2,425
8	4-30	Sideshift @ width over forks	b <sub>8</sub>	mm	0-468	1,510	0-468	1,510
	4-31	Ground clearance, laden, below mast	m <sub>1</sub>	mm	18	37	18	37
	4-32	Ground clearance, centre of wheelbase	m <sub>2</sub>	mm	34		34	
	4-33	Load dimension b <sub>12</sub> × I <sub>6</sub> crossways		mm	2,400	2,400	2,400	2,400
	4-34-1-2	Aisle width, with 200 mm operating clearance	Ast	mm	8,7	73	8,7	73
	4-34-1-3	Aisle width, with 10% operating clearance	Ast	mm	9,4	30	9,4	30
	4-35	Outside turning radius	$W_{a}$	mm	5,2	00	5,200	
ğ	4-36	Internal turning radius	b <sub>13</sub>	mm	2,0	26	2,0	26
2	5-1	Travel speed, with / without load (2)		km/h	27.0	28.7	27.0	28.7
8	5-1-1	Travel speed, with load locked / without load (2)		km/h	On re	quest	On re	quest
병	5-2	Lifting speed, with / without load backwards		m/s	0.34	0.44	0.34	0.44
PERFORMANCE	5-2-1	Lifting speed, with 70% load		m/s	0.0		0.3	38
S S	5-3	Lowering speed with / without load		m/s	0.54	0.45	0.54	0.45
開開	5-5	Drawbar pull - 1.6 km/h   1 mph, with / without load		kN	97	100	97	100
	5-5-1	Drawbar pull - stall, with / without load		kN	111	113	110	113
	5-7	Gradeability - 1.6 km/h   1 mph, with / without load		%	27	36	26	33
	5-7-1	Gradeability - stall, with / without load		%	32	36	30	33

<sup>(1)</sup> Based on Stage IIIB engine

<sup>(2)</sup> Travel speed unladen limited at 25 km/h as factory default

## H18XD7.5 / H18XD9 SPECIFICATIONS



	1-1	Manufacturer HYSTER					HYSTER		
	1-2	Model designation			H18X		H18		
_	1-3	Powertrain / drivetrain			Die	sel	Die	sel	
GENERAL	1-4	Operator type			Sea	ted	Sea		
GE	1-5	Load capacity at load center, nominal (1)	Q	kg	18,0			000	
	1-6	Load center distance	C <sub>1</sub>	mm	75	50	90	00	
	1-8	Load distance	х	mm	97	73	97	73	
	1-9	Wheelbase	У	mm	3,750		3,750		
눞	2-1	Service weight (1)		kg	21,8		23,		
WEIGHT	2-2	Axle loading with load, front / rear		kg	36,429	2,607	37,057	3,480	
>	2-3	Axle loading without load, front / rear		kg	11,326	10,510	11,266	12,071	
	3-1	Tyre type				Pneumatic		matic	
S	3-2	Tyre size, front				12.00 R 20		R 20	
WHEELS	3-3	Tyre size, rear			12.00 R 20			R 20	
≱	3-5	Wheels, number front / rear (x = driven wheels)			4X			/ 2	
	3-6	Tread, front	b <sub>10</sub>	mm	2,2		2,2		
	3-7	Tread, rear	b <sub>11</sub>	mm	1,9		1,9		
	4-1	Mast tilt, forward / backward	α/β	deg	6°/			10°	
	4-2	Height, mast lowered	h <sub>1</sub>	mm	3,9			185	
	4-3	Free lift	h <sub>2</sub>	mm	(				
	4-4	Lift	h <sub>3</sub>	mm	4,4			194	
	4-5	Height, mast extended	h <sub>4</sub>	mm	6,2		6,2		
	4-7	Height of overhead guard (closed cab)	h <sub>6</sub>	mm	3,0		3,083		
	4-7-1	Height of overhead guard (closed cab)	h <sub>6</sub>	mm	3,110		3,110		
	4-7-2	Height of overhead guard (closed cab w/ strobe light)	h <sub>6</sub>	mm	3,110		3,110		
	4-7-3	Height of overhead guard (closed cab w/ work lights)	h <sub>6</sub>	mm	3,205		3,205		
	4-7-4 4-7-5	Height of overhead guard (closed cab w/ work lights)	h <sub>6</sub>	mm	3,259		3,259 3,235		
	4-7-3	Height of overhead guard (closed cab w/ aircon & strobe light)	h <sub>6</sub>	mm	3,235		1,903		
	4-12	Seat height to SIP Coupling height	h <sub>7</sub>	mm mm	1,903 713		713		
Ş	4-16	Overhang	h <sub>10</sub>		79		79		
DIMENSIONS	4-19	Overall length	l <sub>1</sub>	mm mm	7,9		7,9		
Ĕ	4-20	Length to face of forks	l <sub>2</sub>	mm	5,5				
	4-21	Overall width	b <sub>2</sub>	mm	2,5			<b>5,514</b> 2,542	
	4-22	Fork dimensions ISO 2331	s/e/l	mm	100 / 200		100 / 20		
	4-23	Fork carriage type	3/6/1		Dual Function - Sides				
	4-24	Fork carriage width	b <sub>3</sub>	mm	2,5			i40	
	4-25-1	Width over forks (min / max)	b <sub>5</sub>	mm	575	2,425	575	2,425	
	4-30	Sideshift @ width over forks	b <sub>8</sub>	mm	0-468	1,510	0-468	1,510	
	4-31	Ground clearance, laden, below mast	m <sub>1</sub>	mm	18	37	18	37	
	4-32	Ground clearance, centre of wheelbase	m <sub>2</sub>	mm	34			11	
	4-33	Load dimension b <sub>12</sub> × I <sub>6</sub> crossways		mm	2,400	2,400	2,400	2,400	
	4-34-1-2	Aisle width, with 200 mm operating clearance	Ast	mm	8,7	73	8,7	73	
	4-34-1-3	Aisle width, with 10% operating clearance	Ast	mm	9,4		9,430		
	4-35	Outside turning radius	Wa	mm	5,2		5,2		
	4-36	Internal turning radius	b <sub>13</sub>	mm	2,0			26	
	5-1	Travel speed, with / without load (2)		km/h	27.0	28.7	27.0	28.7	
	5-1-1	Travel speed, with load locked / without load (2)		km/h	On re	quest	On re	quest	
щ	5-2	Lifting speed, with / without load backwards		m/s	0.32	0.44	0.32	0.44	
ANC	5-2-1	Lifting speed, with 70% load		m/s	0.3	37	0.:	37	
PERFORMANCE	5-3	Lowering speed with / without load		m/s	0.54	0.45	0.54	0.45	
FH SH	5-5	Drawbar pull - 1.6 km/h   1 mph, with / without load		kN	97	100	96	100	
4	5-5-1	Drawbar pull - stall, with / without load		kN	110	113	110	113	
	5-7	Gradeability - 1.6 km/h   1 mph, with / without load		%	26	36	25	33	
	5-7-1	Gradeability - stall, with / without load		%	30	36	29	33	

<sup>(1)</sup> Based on Stage IIIB engine(2) Travel speed unladen limited at 25 km/h as factory default

## MAST AND CAPACITY INFORMATION

### H16XD9 RATED CAPACITY KG@ 900 MM LOAD CENTRE/ H16XD12 RATED CAPACITY KG@ 1200 MM LOAD CENTRE

	Lift height	Lowered height	Free lift height	Extended height	QD DFSSFP	carriage (kg)
	h <sub>3</sub> + s (mm)	h <sub>1</sub> (mm)	h <sub>2</sub> + s (m)	h <sub>4</sub> (mm)	H16XD9	H16XD12
	3884	3680	0	5622	16,000	16,000
2 STAGE NFL	4494	3985	0	6232	16,000	16,000
2 ST N	5306	4391	0	7044	16,000	16,000
	6119*	4798	0	7858	15,700	15,700

### H18XD7.5 RATED CAPACITY KG@ 750 MM LOAD CENTRE/ H18XD9 RATED CAPACITY KG@ 900 MM LOAD CENTRE

	Lift beight	Evtanded holdet		Lift Lowered height height		Extended height	QD DFSSFP	carriage (kg)
	h <sub>3</sub> + s (mm)	h <sub>1</sub> (mm)	h <sub>2</sub> + s (m)	h <sub>4</sub> (mm)	H18XD7.5	H18XD9		
	3884	3680	0	5622	18,000	18,000		
2 STAGE NFL	4494	3985	0	6232	18,000	18,000		
2 ST N	5306	4391	0	7044	18,000	18,000		
	6119*	4798	0	7858	17,650	17,650		

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® truck.

- (1) Based on Stage IIIB engine
- (2) Travel speed laden limited at 25 km/h as factory default

All capacities are according to EN1551.

#### MAST TABLE:

\* calculated with 350 mm sideshift carriage



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 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.

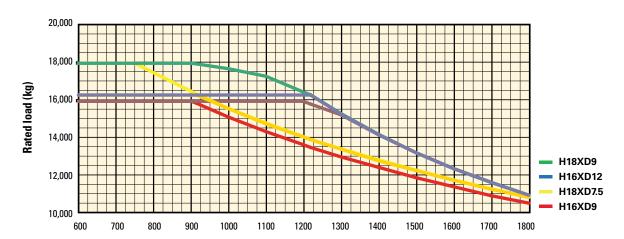
NOTE: Specifications, unless otherwise listed, are for a standard truck without optional equipment.

Specification data is based on VDI 2198.

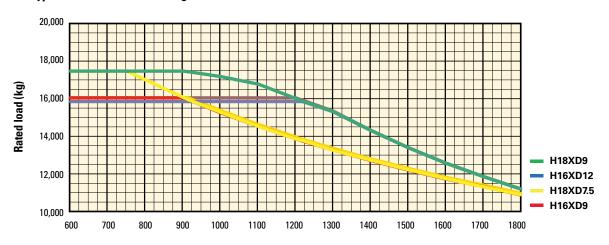
### **RATED CAPACITIES**



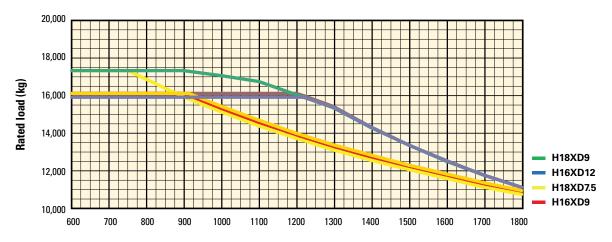
### **Pin Type Carriage**



### Pin type Side Shift frame carriage



### Hook type Dual Function carriage with Side Shift and Fork positioner for quick disconnect forks



Load centre - distance from front of forks to centre of gravity of load.

Rated load - based on vertical mast.

# > FEATURES AND OPTIONS

PERFORMANCE	STD	0PT
Cummins QSB 6.7L Tier 3 diesel engine 155 hp (116 kW)	Х	
Tier 3 / Stage IIIA compliant	Х	
Wastegate turbocharger, water cooled*	Х	
On-demand cooling fan	Х	
120 amp alternator	Х	
Performance modes	Х	
Powertrain protection system	Х	
Heavy duty air intake	Х	
Heavy duty air intake (raised)		Χ
High mount exhaust	Х	
ZF Transmission WG161 3-speeds forwardd/3-speeds reverse auto-shifting	Х	
Kessler D81 drive axle with wet disc brakes	Х	
DRIVE	STD	0PT
Speed limiter - unconditional and customer adjustable		Χ
Travel speed limiter - loaded (adjustable)		Χ
12.00 - 20 20 Pneumatic Bias Drive Tyres	Χ	
12.00 - R20 Michelin XZM Radial drive and steer tyres		Χ
LIFT	STD	ОРТ
120cc dual pump hydraulic system	Х	
On-demand load sensing hydraulic system	Х	
Automatic throttle-up when lifting (in neutral or inching)	Х	
2 Stage Non Free Lift mast	Х	
2 Stage Full Free Lift mast		Χ
3 Stage Full Free Lift mast		Χ
Mast tilt - 6° Forward / 10° Back	Χ	
Mast tilt - 10.5° Forward / 12° Back		Χ
Mast tilt - 15° Forward / 10° Back		Χ
Hydraulic accumulator		Χ
Pressure compensated lowering	Χ	
Hydraulic system temperature protection		Χ
HANDLING	STD	ОРТ
Mast Tilt Indicator - Mechanical		Χ
2540mm (100") Pin type carriage with mechanical fork locks		Х
2540mm (100") Pin type carriage with individual fork positioner		Χ
2540mm (100") Pin type apron-style sideshift carriage		Χ
2540mm (100") Pin Dual function sideshift carriage with individual fork positioner with integral forks	Х	
2540mm (100") Pin Dual function sideshift carriage with individual fork positioner with Quick Disconnect forks		Х
2540mm (100") Pin Ttype apron-style sideshift carriage with individual fork positioner		Х
Simultaneous fork positioning		Х
2440mm (96") length pin type forks	Х	
2440mm (96") length hook type forks		Х
2440mm (96") length integral forks		Х
ERGONOMICS	STD	ОРТ
Open operator compartment (without doors and screens)	Х	
Enclosed operator cabin		Х
	And the last	100000

ERGONOMICS (continued)	STD	ОРТ
Powered tilt operator compartment for service		Х
Manual tilt operator compartment for service	Х	
Isolated cabin mounting for low noise and vibration	Х	
Operator presence system	Χ	
Mechanical suspension seat	Х	
Air suspension seat		Χ
Deluxe air suspension seat		Χ
Low backrest seat	Х	
High backrest seat		Χ
Additional armrest on left side		Χ
Cloth seat cover		Х
Vinyl seat cover	Х	
Seat heating		Х
Seat ventilation		Х
2-point high visibility seatbelt	Х	
3-point high visibility seatbelt		Х
Lateral seat sliding mechanism		Х
Floor mat	Х	
Coat hook	Х	
Dimmable interior light		
Front, top and rear wipers	Х	
"H"-pattern front wiper		Х
"I"-pattern front wiper	Х	
Laminated glass operator compartment front window		Х
Top window with armoured glass - FOPS certified (enclosed operator cabin)	Х	
Steel bars under amoured glass top window (enclosed operator cabin)		Х
Tinted operator compartment windows (all)		Х
Tinted operator compartment top window		Х
Lexan top window		Х
PleXiglass shield in front of front window		Х
Wire mesh installed on top of operator compartment		Х
Vertical steel bar front window guard		Х
Operator shield wire mesh		Х
7" Integrated performance display	Х	
Touchpoint™ mini levers hydraulic control integrated in control arm	Х	
Joystick hydraulic control integrated in control arm		Х
Steering wheel without spinner knob		Х
Steering wheel with spinner knob	Х	
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
Interior wide angle mirrors	Х	
Heater with adjustable speed fan	Х	
Diesel fueled cabin heater	^	Х
Telescoping and tilting steering column	Х	
DC/DC converter 24 volt/12 volt with socket	^	Х
DOIDO CONVENTEN 24 VOIG 12 VOIL VVILII SUCKEL		

## FEATURES AND OPTIONS <

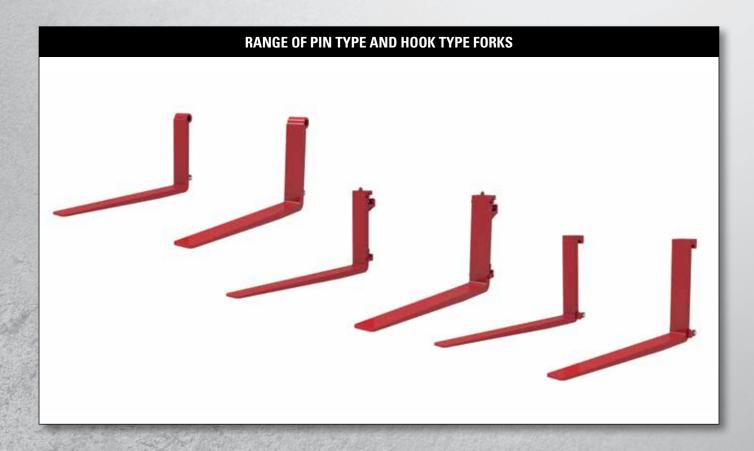
ERGONOMICS (continued)	STD	ОРТ
Air conditioning		Χ
Automatic climate control		Х
Reading light		Х
Sun shades on top and rear		Х
Sun visors front window		Х
Trainer seat		Х
Recirculation fan		Х
Additional recirculation fan		Х
Accessory mounting bar on cab front right pillar		Х
Document holder on cab front right pillar		Х
Heated top- and/or rear window		Х
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
Rear view camera system		Х
Radar object detection system		Х
Halogen work lights	Х	
LED work lights		Х
High performance LED work lights		Х
Two head lights mounted on front fenders		Х
Four mast mounted work lights		Х
Four cabin mounted work lights		Х
Two rearward work lights mounted on the cabin		Х
Two rearward work lights mounted on the cabin  LED stop/tail/brake lights	Х	Х
	X	X
LED stop/tail/brake lights		
LED stop/tail/brake lights  Turn signals, hazard & marker lights (LED)	X	
LED stop/tail/brake lights Turn signals, hazard & marker lights (LED)  OPERATION	X	ОРТ
LED stop/tail/brake lights Turn signals, hazard & marker lights (LED)  OPERATION  Air horn 112 dBA	X	ОРТ
LED stop/tail/brake lights Turn signals, hazard & marker lights (LED)  OPERATION  Air horn 112 dBA  Electric horn 105 dBA	X STD	ОРТ
LED stop/tail/brake lights Turn signals, hazard & marker lights (LED)  OPERATION  Air horn 112 dBA  Electric horn 105 dBA  Visible alarm – Amber strobe light, key switch activated  Visible alarm – Amber strobe light, switch and key switch	X STD	OPT X
LED stop/tail/brake lights  Turn signals, hazard & marker lights (LED)  OPERATION  Air horn 112 dBA  Electric horn 105 dBA  Visible alarm – Amber strobe light, key switch activated  Visible alarm – Amber strobe light, switch and key switch activated*  Audible alarm – reverse direction activated 82–102 dB(A),	X STD X X	OPT X
LED stop/tail/brake lights  Turn signals, hazard & marker lights (LED)  OPERATION  Air horn 112 dBA  Electric horn 105 dBA  Visible alarm – Amber strobe light, key switch activated  Visible alarm – Amber strobe light, switch and key switch activated*  Audible alarm – reverse direction activated 82–102 dB(A), self-adjusting	X STD X X	OPT X
LED stop/tail/brake lights  Turn signals, hazard & marker lights (LED)  OPERATION  Air horn 112 dBA  Electric horn 105 dBA  Visible alarm – Amber strobe light, key switch activated  Visible alarm – Amber strobe light, switch and key switch activated*  Audible alarm – reverse direction activated 82–102 dB(A), self-adjusting  Audible alarm – reverse direction white noise	X STD X X	OPT X X
LED stop/tail/brake lights  Turn signals, hazard & marker lights (LED)  OPERATION  Air horn 112 dBA  Electric horn 105 dBA  Visible alarm – Amber strobe light, key switch activated  Visible alarm – Amber strobe light, switch and key switch activated*  Audible alarm – reverse direction activated 82–102 dB(A), self-adjusting  Audible alarm – reverse direction white noise  Forward / reverse motion alarm	X STD X X	X X X
LED stop/tail/brake lights  Turn signals, hazard & marker lights (LED)  OPERATION  Air horn 112 dBA  Electric horn 105 dBA  Visible alarm – Amber strobe light, key switch activated  Visible alarm – Amber strobe light, switch and key switch activated*  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 STD X X	X X X X X
LED stop/tail/brake lights  Turn signals, hazard & marker lights (LED)  OPERATION  Air horn 112 dBA  Electric horn 105 dBA  Visible alarm – Amber strobe light, key switch activated  Visible alarm – Amber strobe light, switch and key switch activated*  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  Tire pressure monitoring system	X STD X X	X X X X X X
LED stop/tail/brake lights  Turn signals, hazard & marker lights (LED)  OPERATION  Air horn 112 dBA  Electric horn 105 dBA  Visible alarm – Amber strobe light, key switch activated  Visible alarm – Amber strobe light, switch and key switch activated*  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  Tire pressure monitoring system  Air-conditioning or automatic climate control off with open door	X STD X X	X X X X X X
LED stop/tail/brake lights  Turn signals, hazard & marker lights (LED)  OPERATION  Air horn 112 dBA  Electric horn 105 dBA  Visible alarm – Amber strobe light, key switch activated  Visible alarm – Amber strobe light, switch and key switch activated*  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  Tire pressure monitoring system  Air-conditioning or automatic climate control off with open door Automatic truck shutdown with timer	X STD X X	X X X X X X X
LED stop/tail/brake lights  Turn signals, hazard & marker lights (LED)  OPERATION  Air horn 112 dBA  Electric horn 105 dBA  Visible alarm – Amber strobe light, key switch activated  Visible alarm – Amber strobe light, switch and key switch activated*  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  Tire pressure monitoring system  Air-conditioning or automatic climate control off with open door Automatic truck shutdown with timer  Preventative maintenance reminder in display	X STD X X	X X X X X X X
LED stop/tail/brake lights  Turn signals, hazard & marker lights (LED)  OPERATION  Air horn 112 dBA  Electric horn 105 dBA  Visible alarm – Amber strobe light, key switch activated  Visible alarm – Amber strobe light, switch and key switch activated*  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  Tire pressure monitoring system  Air-conditioning or automatic climate control off with open door Automatic truck shutdown with timer  Preventative maintenance reminder in display  Lockable battery disconnect switch	X STD X X	X X X X X X X X X
LED stop/tail/brake lights  Turn signals, hazard & marker lights (LED)  OPERATION  Air horn 112 dBA  Electric horn 105 dBA  Visible alarm – Amber strobe light, key switch activated  Visible alarm – Amber strobe light, switch and key switch activated*  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  Tire pressure monitoring system  Air-conditioning or automatic climate control off with open door Automatic truck shutdown with timer  Preventative maintenance reminder in display  Lockable battery disconnect switch  Battery jump start connector (NATO plug)	X STD  X X X	X X X X X X X X X
LED stop/tail/brake lights  Turn signals, hazard & marker lights (LED)  OPERATION  Air horn 112 dBA  Electric horn 105 dBA  Visible alarm – Amber strobe light, key switch activated  Visible alarm – Amber strobe light, switch and key switch activated*  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  Tire pressure monitoring system  Air-conditioning or automatic climate control off with open door Automatic truck shutdown with timer  Preventative maintenance reminder in display  Lockable battery disconnect switch  Battery jump start connector (NATO plug)  Truck start with key switch and start button	X STD  X X X	X X X X X X X X X
LED stop/tail/brake lights  Turn signals, hazard & marker lights (LED)  OPERATION  Air horn 112 dBA  Electric horn 105 dBA  Visible alarm – Amber strobe light, key switch activated  Visible alarm – Amber strobe light, switch and key switch activated*  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  Tire pressure monitoring system  Air-conditioning or automatic climate control off with open door Automatic truck shutdown with timer  Preventative maintenance reminder in display  Lockable battery disconnect switch  Battery jump start connector (NATO plug)  Truck start with key switch and start button  Operator password (display) for truck start	X STD  X X X	X
LED stop/tail/brake lights  Turn signals, hazard & marker lights (LED)  OPERATION  Air horn 112 dBA  Electric horn 105 dBA  Visible alarm – Amber strobe light, key switch activated  Visible alarm – Amber strobe light, switch and key switch activated*  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  Tire pressure monitoring system  Air-conditioning or automatic climate control off with open door Automatic truck shutdown with timer  Preventative maintenance reminder in display  Lockable battery disconnect switch  Battery jump start connector (NATO plug)  Truck start with key switch and start button  Operator password (display) for truck start  Seatbelt Interlock for truck start	X STD  X X X	X

OPERATION (continued)	STD	ОРТ
Lockable fuel cap		Х
Diesel fuel inlet strainer in filler neck		Х
Hyster Tracker wireless asset management system		Х
Hyster Tracker wireless asset management - Access / Verification		Х
Hyster Tracker wireless asset management - Monitoring		Х
Auto greasing system for basic truck and outer mast		Х
Centralized greasing provision for upper chain sheaves	Х	
24 volt electrical system	Х	
Engine block heater 110 and 240 volt		Х
Steer wheel lug nut protection		Х
Front mud flaps		Х
Rear mud flaps		Х
Lifting eyes - 2 front and 2 rear		Х
Wire mesh belly pan		Х
Wire mesh and plates belly pan		Х
APPEARANCE	STD	0PT
Hyster yellow paint base truck	Х	
Special paint base truck		Х
Operator compartment special paint (outside only)		Х
Hazard warning striping on counterweight		Х
SUPPLEMENTAL	STD	0PT
Literature package	Х	
Operator's manual	Х	
CE certification*	Х	
Warranty: 12 Months / 2,000 Hours manufacturer's warranty		Х
Warranty: 24 Months / 4,000 Hours extended warranty	Х	

<sup>\*</sup>Standard or optional in selected markets. Other options available through Special Products Engineering Department (SPED). Contact Hyster for details.

## > FRONT END EQUIPMENT





## FRONT END EQUIPMENT <



### **CARRIAGE BASE**



**CARRIAGE BASE WITH 4WAY VALVE** 



PIN TYPE CARRIAGE WITHOUT FORK POSITIONER



PIN TYPE CARRIAGE WITH FORK POSITIONER



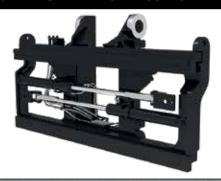
PIN TYPE INTEGRAL SIDESHIFT FRAME CARRIAGE WITHOUT FORK POSITIONER



PIN TYPE INTEGRAL SIDESHIFT FRAME CARRIAGE WITH FORK POSITIONER



**INTEGRAL HOOK TYPE DUAL FUNCTION SIDESHIFT CARRIAGE WITH FORK POSITIONER** 



### **QD HOOK TYPE DUAL FUNCTION SIDESHIFT CARRIAGE** WITH FORK POSITIONER



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