

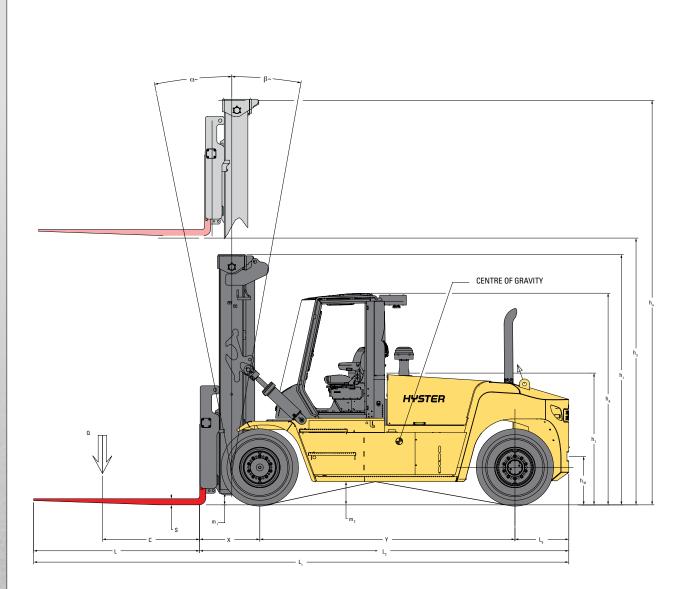


H16-18XD SERIES TECHNICAL GUIDE





DIMENSIONS



= Centre of gravity of unladen truck

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

 $A_{ST} = W_a + ((l_6+x)^{6} + (b_{12}/2-b_{13})^{6.5} + a \text{ (if } b_{12}/2 > b_{13} \text{ and } W_a > b_{13+} b_{12}/2)$

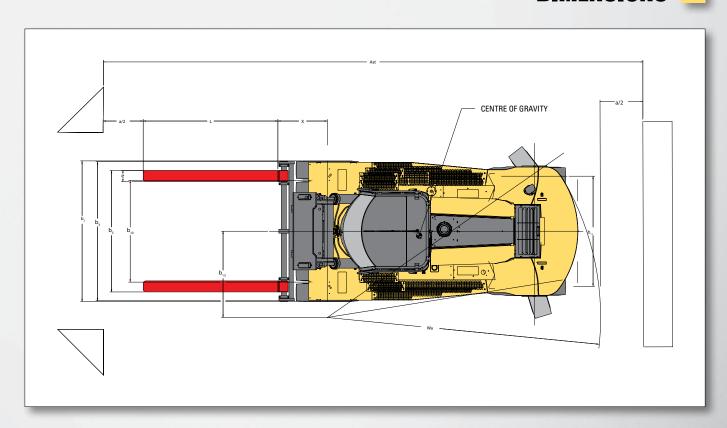
 $A_{ST} = b_{13} + b_{12}/2 ((l_6+x)^2 + (b_{12}/2 - b_{13})^{0.5} + a \text{ (if } b_{12}/2 > b_{13} \text{ and } W_a < b_{13+} b_{12}/2)$

a = Minimum operating clearance = 10% of Ast

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

 I_6 = load lengths

 $b_{12} = load width$



POWERTRAINS <

į 1-1	Manufacturer			HYSTER
1-1 1-2 1-3	Model designation			H16XD9 / H16XD12 / H18XD7.5 / H18XD9
1-3	Powertrain / drivetrain			Diesel
7-1	Engine manufacturer / model			Cummins / QSB 6.7
7-1a	EPA / CE compliance			Stage IIIA
7-2	Engine power output according to ISO 1585		kW	116
7-2-1	Engine power output - Peak		kW	116
7-3 7-3-1	Rated speed		min ⁻¹	2,300
7-3-1	Engine torque @rpm (1/min)		Nm/min ⁻¹	597 @ 1,500
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
8-4	Transmission speeds forward / backward		#	3/3
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
10-2	Oil volume for attachments		I/m	100
10-3	Hydraulic tank capacity		I	140
10-4	Fuel tank capacity		I I	206
10-5	Steering design			Hydraulic power steering
10-6	Number of steering rotation			5.4
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

> 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
PAI	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	73	973	
	1-9	Wheelbase	у	mm	3,750		3,750	
H	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
ELS	3-3	Tyre size, rear			12.00	R 20	12.00	R 20
WHEELS	3-5	Wheels, number front / rear (x = driven wheels)			4X	/ 2	4X	/ 2
>	3-6	Tread, front	b ₁₀	mm	2,2	18	2,2	18
	3-7	Tread, rear	b ₁₁	mm	1,9		1,9	
	4-1	Mast tilt, forward / backward	α/β	deg	6° /	10°	6° /	10°
	4-2	Height, mast lowered	h ₁	mm	3,9	85	3,9	85
	4-3	Free lift	h ₂	mm	()	()
	4-4	Lift	h ₃	mm	4,4	94	4,4	94
	4-5	Height, mast extended	h ₄	mm	6,2	32	6,2	32
	4-7	Height of overhead guard (closed cab)	h ₆	mm	3,0	83	3,0	83
	4-7-1	Height of overhead guard (closed cab)	h ₆	mm	3,1	10	3,1	10
	4-7-2	Height of overhead guard (closed cab w/ strobe light)	h ₆	mm	3,1	10	3,1	10
	4-7-3	Height of overhead guard (closed cab w/ work lights)	h ₆	mm	3,205		3,205	
	4-7-4	Height of overhead guard (closed cab w/ work lights)	h ₆	mm	3,2	59	3,2	59
	4-7-5	Height of overhead guard (closed cab w/ aircon & strobe light)	h ₆	mm	3,2	35	3,2	35
	4-8	Seat height to SIP	h ₇	mm	1,9	03	1,903	
S	4-12	Coupling height	h ₁₀	mm	71	3	713	
DIMENSIONS	4-16	Overhang	l ₅	mm	79)1	791	
ENS	4-19	Overall length	l ₁	mm	7,9	54	7,9	54
	4-20	Length to face of forks	l ₂	mm	5,5	14	5,5	14
	4-21	Overall width	b ₂	mm	2,5	42	2,5	42
8	4-22	Fork dimensions ISO 2331	s/e/l	mm	100 / 200		100 / 20	
ă	4-23	Fork carriage type				shift/Fork Positioning	Dual Function - Side:	
	4-24	Fork carriage width	b ₃	mm	2,5		2,5	
	4-25	Width over forks (min / max)	b ₅	mm	575	2,425	575	2,425
	4-30	Sideshift @ width over forks	b ₈	mm	0-468	1,510	0-468	1,510
	4-31	Ground clearance, laden, below mast	m ₁	mm	18		18	
	4-32	Ground clearance, centre of wheelbase	m ₂	mm	3 400		3.400	
	4-33 4-34-1-2	Load dimension $b_{12} \times l_6$ crossways Aisle width, with 200 mm operating clearance	Act	mm	2,400	2,400	2,400 8,7	2,400
2	4-34-1-2 4-34-1-3	Aisle width, with 10% operating clearance	Ast Ast	mm	8,7 9,4			
8			Wa				9,430	
	4-35 4-36	Outside turning radius Internal turning radius		mm	5,200 5,200 2,026 2,026			
	4-30 5-1	Travel speed, with / without load (2)	b ₁₃	mm km/h	27.0	28.7	2,026	
	5-1-1	Travel speed, with load locked / without load (2)		km/h	27.0 On re			28.7 quest
	5-2	Lifting speed, with / without load backwards		m/s	0.34	0.44	0.34	0.44
NCE	5-2-1	Lifting speed, with 70% load		m/s	0.54		0.54	
MA	5-3	Lowering speed with / without load		m/s	0.54	0.45	0.54	0.45
PERFORMANCE	5-5	Drawbar pull - 1.6 km/h 1 mph, with / without load		kN	97	100	97	100
H H	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
Service .		2.22.23mly Stany Film of Film out load	COLUMN TO SERVICE STATE OF THE PERSON NAMED IN COLUMN TO SERVICE STATE OF THE PERSON NAMED STATE OF THE PERSON NAMED STATE OF THE PERSON NAMED STATE OF THE PERSON NAM	,,,				

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

H18XD7.5 / H18XD9 SPECIFICATIONS



1-2 Mode dissipation									
		1-1	Manufacturer			HYS	TER	HYS	TER
Fig.		1-2	Model designation			H18XD7.5		H18	XD9
1-8	Ι.	1-3	Powertrain / drivetrain			Die	sel	Die	sel
1-8	I.B.	1-4	Operator type			Sea	ted	Sea	ited
1-8	I E	1-5	Load capacity at load center, nominal (1)	a	kg	18,0	000	18,	000
19 Witerblasec	9	1-6	Load center distance	C ₁	mm	75	50	90	00
1		1-8	Load distance	х	mm	97	73	97	73
2-9 Axis loading withhoot, front / rear		1-9	Wheelbase	у	mm	3,7	50	3,7	'50
3-1 Tyra type	E	2-1	Service weight (1)		kg	21,8	337	23,	337
3-1 Tyra type	喜	2-2	Axle loading with load, front / rear		kg	36,429	2,607	37,057	3,480
1	3	2-3	Axle loading without load, front / rear		kg	11,326	10,510	11,266	12,071
12,00 R 20 12,		3-1	Tyre type					Pneu	matic
3-8 Tread, front		3-2	Tyre size, front			12.00	R 20	12.00	R 20
Section Sect	ES	3-3	Tyre size, rear			12.00	R 20	12.00	R 20
Section Sect	闄	3-5	Wheels, number front / rear (x = driven wheels)			4X	/ 2	4X	/ 2
4-1 Mast bit, forward / backward		3-6	Tread, front	b ₁₀	mm	2,2	18	2,2	118
4-3 Five lift		3-7	Tread, rear	b ₁₁	mm	1,9	94	1,9	194
4-3		4-1	Mast tilt, forward / backward	α/β	deg	6°/	10°	6° /	10°
144		4-2	Height, mast lowered	h ₁	mm	3,9	85	3,9	185
4-5 Height, mast extended		4-3	Free lift	h ₂	mm	())
4-7- Height of overhead guard (closed cab)		4-4	Lift	h ₃	mm	4,4	94	4,4	194
Height of overhead guard (closed cab) No		4-5	Height, mast extended	h ₄	mm	6,2	32	6,2	32
Height of overhead guard (closed cab w/ work lights) hs mm 3,110 3,110 3,110 3,110 4-13 Height of overhead guard (closed cab w/ work lights) hs mm 3,205 3,225 3,2		4-7	Height of overhead guard (closed cab)	h ₆	mm	3,0	83	3,0	183
4-1-3		4-7-1	Height of overhead guard (closed cab)	h ₆	mm	3,1	10	3,1	10
4-1-4 Height of overhead guard (closed cab w/ work lights) h ₆ mm 3,259 3,259 3,259 4-1-5 Height of overhead guard (closed cab w/ airoon & strobe light) h ₆ mm 3,235 3,235 4-1-8 A-1-8 A-1-8 A-1-1 Coupling height h ₁₀ mm 7.13 7.13 4-1-1 Coupling height h ₁₀ mm 7.13 7.13 4-1-1 Overhang h ₁ mm 7,954 7,954 4-1-1 Overlang h ₁ mm 7,954 7,954 4-1-1 Overlang h ₁ mm 7,954 7,954 4-1-1 Overlang h ₁ mm 2,542 2,542 4-1-1 Overlang h ₁ mm 2,542 2,542 4-1-2 Fork dimensions ISO 2331 h ₁₀ mm 100 / 200 / 2,440 100 / 200 / 2,440 4-1-2 Fork carriage type h ₂ Dual Function - Sideshift/Fork Positioning Dual Function - Sideshift/Fork		4-7-2	Height of overhead guard (closed cab w/ strobe light)	h ₆	mm	3,110		3,110	
4-1-5		4-7-3		h ₆	mm	3,205		3,205	
4-8 Seat height to SIP hp mm 1,903 1,903 1,903 1,903 1,415		4-7-4	Height of overhead guard (closed cab w/ work lights)	h ₆	mm	3,2	59	3,2	259
4-12 Coupling height					mm				
1-10 Overhang 1-10 Ove			-	h ₇	mm				
4-21 Overall width Day mm 2,542 2,542 2,542 4-22 Fork dimensions ISO 2331 sind mm 100 / 200 / 2,440 100 / 200 / 2,440 100 / 200 / 2,440 Dual Function - Sideshift/Fork Positioning Dual Function - Sideshift/Fork Position Dual Function - Sideshift/Fork Position Dual Function - Sideshift/Fork Position	2								
4-21 Overall width Day mm 2,542 2,542 2,542 4-22 Fork dimensions ISO 2331 sind mm 100 / 200 / 2,440 100 / 200 / 2,440 100 / 200 / 2,440 Dual Function - Sideshift/Fork Positioning Dual Function - Sideshift/Fork Position Dual Function - Sideshift/Fork Position Dual Function - Sideshift/Fork Position	Sion		-						
4-21 Overall width Day mm 2,542 2,542 2,542 4-22 Fork dimensions ISO 2331 sind mm 100 / 200 / 2,440 100 / 200 / 2,440 100 / 200 / 2,440 Dual Function - Sideshift/Fork Positioning Dual Function - Sideshift/Fork Position Dual Function - Sideshift/Fork Position Dual Function - Sideshift/Fork Position	Ë								
4-22 Fork dimensions ISO 2331									
4-23 Fork carriage type									
4-24 Fork carriage width b3 mm 2,540 2,540 4-25 Width over forks (min / max) b5 mm 575 2,425 575 2,425 4-30 Sideshift @ width over forks b8 mm 0.468 1,510 0.468 1,510 4-31 Ground clearance, laden, below mast m1 mm 187 187 4-32 Ground clearance, centre of wheelbase m2 mm 341 341 4-33 Load dimension b₁₂ × ₅ crossways mm 2,400 2,400 2,400 2,400 2,400 4-34-12 Aisle width, with 200 mm operating clearance Ast mm 8,773 8,773 4-34-13 Aisle width, with 10% operating clearance Ast mm 9,430 9,430 4-36 Internal turning radius Wa mm 5,200 5,200 4-36 Internal turning radius b₁₃ mm 2,026 2,026 5-11 Travel speed, with / without load (2) km/h 27.0 28.7 27.0 28.7 5-21 Lifting speed, with / without load backwards m/s 0.32 0.44 0.32 0.44 5-21 Lifting speed, with / without load m/s 0.54 0.45 0.54 0.45 5-30 Lowering speed with / without load kN 97 100 96 100 5-5-10 Drawbar pull - 1.6 km/h 1 mph, with / without load kN 110 113 110 113 5-7 Gradeability - 1.6 km/h 1 mph, with / without load % 26 36 25 33				s/e/l	mm			·	
4-25 Width over forks (min / max) bs mm 575 2,425 575 2,425				h.	mm				
4-30 Sideshift@width over forks bs mm 0-468 1,510 0-468 1,510									
4-31 Ground clearance, laden, below mast m1 mm 187 187				-					
4-32 Ground clearance, centre of wheelbase m2 mm 341 341 4-33 Load dimension b12 × l6 crossways mm 2,400 2,400 2,400 2,400 4-34-1-2 Aisle width, with 200 mm operating clearance Ast mm 8,773 8,773 4-34-1-3 Aisle width, with 10% operating clearance Ast mm 9,430 9,430 4-35 Outside turning radius Wa mm 5,200 5,200 4-36 Internal turning radius b13 mm 2,026 2,026 5-1 Travel speed, with / without load (2) km/h 27.0 28.7 27.0 28.7 5-1-1 Travel speed, with / without load (2) km/h On request On request 5-2 Lifting speed, with / without load backwards m/s 0.32 0.44 0.32 0.44 5-2-1 Lifting speed, with 70% load m/s 0.37 0.37 5-3 Lowering speed with / without load m/s 0.54 0.45 0.54 5-5 Drawbar pull - 1.6 km/h 1 mph, with / without load kN 97 100 96 100 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									
4-33 Load dimension b12 × l6 crossways mm 2,400 2,40									
4-34-1-2 Aisle width, with 200 mm operating clearance Ast mm 8,773 8,773 8,773 4-34-1-3 Aisle width, with 10% operating clearance Ast mm 9,430 9,430 9,430 4-35 Outside turning radius Wa mm 5,200 5,200 5,200 4-36 Internal turning radius b ₁₃ mm 2,026 2,026 2,026 5-1 Travel speed, with / without load (2) km/h On request On request On request On request 5-2 Lifting speed, with / without load backwards m/s 0.32 0.44 0.32 0.44 0.32 0.44 0.32 0.44 0.35 0.37				2					
4-34-1-3 Aisle width, with 10% operating clearance Ast mm 9,430 9,430			·	Ast					
4-35 Outside turning radius Wa mm 5,200 5,200									
No.									
Travel speed, with / without load (2) km/h 27.0 28.7 27.0 28.7									
S-1-1 Travel speed, with load locked / without load (2) km/h On request On request									
The lates The									
The image of the	ш							0.32	0.44
5-3-1 Drawbar puli - stari, with / without load	A NC	5-2-1					37	0.	37
5-3-1 Drawbar puli - stari, with / without load	RM/	5-3	Lowering speed with / without load			0.54	0.45	0.54	0.45
5-3-1 Drawbar puli - stari, with / without load	E .	5-5	Drawbar pull - 1.6 km/h 1 mph, with / without load		kN	97	100	96	100
		5-5-1	Drawbar pull - stall, with / without load		kN	110	113	110	113
5-7-1 Gradeability - stall, with / without load % 30 36 29 33		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

⁽¹⁾ 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 ₃ + s (mm)	h ₁ (mm)	h ₂ + s (m)	h ₄ (mm)	H16XD9	H16XD12
	3884	3680	0	5622	16,000	16,000
2 STAGE NFL	4494	3985	0	6232	16,000	16,000
2 ST	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 height	Lowered height	Free lift height	Extended height	QD DFSSFP	carriage (kg)
	h ₃ + s (mm)	h ₁ (mm)	h ₂ + s (m)	h ₄ (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.

- 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.

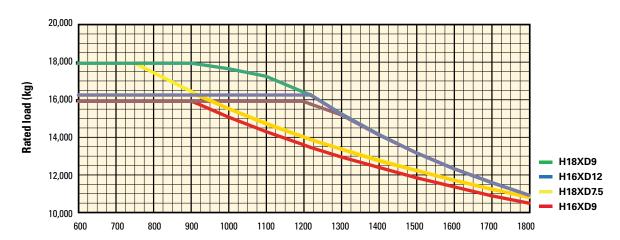
NOTE: Specifications, unless otherwise listed, are for a standard truck without optional equipment.

Specification data is based on VDI 2198.

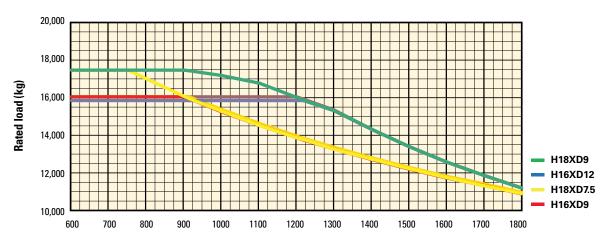
RATED CAPACITIES



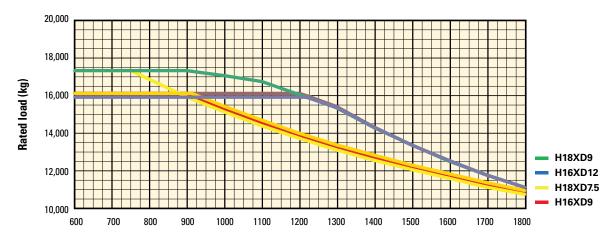
Pin Type Carriage



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

	1	ı
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	Х	
12.00 - R20 Michelin XZM Radial drive and steer tyres		Х
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		Х
3 Stage Full Free Lift mast		Х
Mast tilt - 6° Forward / 10° Back	Х	
Mast tilt - 10.5° Forward / 12° Back		Х
Mast tilt - 15° Forward / 10° Back		Х
Hydraulic accumulator		Х
Pressure compensated lowering	Х	
Hydraulic system temperature protection		Х
HANDLING	STD	ОРТ
Mast Tilt Indicator - Mechanical	0.15	Х
2540mm (100") Pin type carriage with mechanical fork locks		X
2540mm (100") Pin type carriage with individual fork positioner		X
2540mm (100") Pin type apron-style sideshift carriage		X
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
THE STATE OF THE PARTY OF THE P	And the last	

ERGONOMICS (continued)	STD	ОРТ
Powered tilt operator compartment for service		Х
Manual tilt operator compartment for service	Χ	
Isolated cabin mounting for low noise and vibration	Χ	
Operator presence system	Χ	
Mechanical suspension seat	Χ	
Air suspension seat		Х
Deluxe air suspension seat		Х
Low backrest seat	Χ	
High backrest seat		Х
Additional armrest on left side		Χ
Cloth seat cover		Х
Vinyl seat cover	Χ	
Seat heating		Х
Seat ventilation		Х
2-point high visibility seatbelt	Χ	
3-point high visibility seatbelt		Х
Lateral seat sliding mechanism		Χ
Floor mat	Χ	
Coat hook	Χ	
Dimmable interior light		
Front, top and rear wipers	Χ	
"H"-pattern front wiper		Х
"I"-pattern front wiper	Χ	
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	X	
Diesel fueled cabin heater		Х
Telescoping and tilting steering column	Х	
DC/DC converter 24 volt/12 volt with socket		Х
25,25 Converter ET VOIG 12 VOIL WILLI GOORGE	_	_^

FEATURES AND OPTIONS <



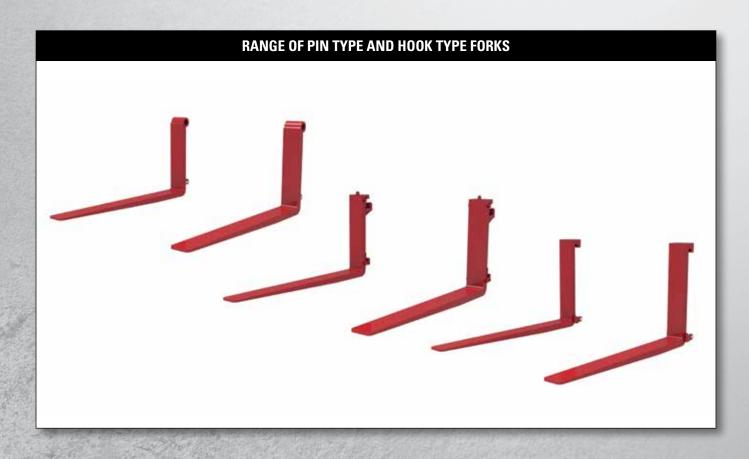
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ERGONOMICS (continued)	STD	0PT
Air conditioning		Х
Automatic climate control		Х
Reading light		Χ
Sun shades on top and rear		Х
Sun visors front window		Х
Trainer seat		Х
Recirculation fan		Х
Additional recirculation fan		Х
Accessory mounting bar on 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		X
Two head lights mounted on front fenders		X
Four mast mounted work lights		X
Four cabin mounted work lights		X
-		X
Two rearward work lights mounted on the cabin		
LED stop/toil/broke lights	v	^
LED stop/tail/brake lights	X	^
Turn signals, hazard & marker lights (LED)	X	
Turn signals, hazard & marker lights (LED) OPERATION		ОРТ
Turn signals, hazard & marker lights (LED) OPERATION Air horn 112 dBA	X	
Turn signals, hazard & marker lights (LED) OPERATION Air horn 112 dBA Electric horn 105 dBA	X STD	ОРТ
Turn signals, hazard & marker lights (LED) OPERATION Air horn 112 dBA	X	ОРТ
Turn signals, hazard & marker lights (LED) OPERATION Air horn 112 dBA Electric horn 105 dBA	X STD	ОРТ
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	OPT X
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
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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
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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
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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
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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 X X 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	ОРТ
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	

^{*}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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