# H8-9XD EC6-8 / H9-11XD ECD7-9 SERIES

## **EMPTY CONTAINER HANDLER** PRODUCT TECHNICAL GUIDE



WWW.HYSTER.COM

### **TRUCK DIMENSIONS**

### **STANDARD CAB POSITION**



### **OPTIONAL RAISED CAB POSITION**





- r<sub>1</sub> = radius of swing of container rear corner
- r<sub>2</sub> = radius of swing of container front corner
- $\rm W_{a}~=~outside~turning~radius~of~the~truck$
- a = total operating clearance:
- = 200 mm (100 mm each side acc. VDI) see VDI line 4-34-3 and 4-34-4 V = (theoretical) 90  $\sim$  stacking aisle width, no intrusive stacking:
- $V = r_2 + \text{the larger of } r_1 \text{ or } W_a$
- Ast = (practical) 90 ~ stacking aisle width, no intrusive stacking and with clearance:
- Ast = V + a

### **TRUCK DIMENSIONS**

### H8XD-EC6 / H8XD-EC7 / H9XD-EC7 SPECIFICATIONS

	1-1	Manufacturer				UVOTED		
	1-2	Model designation			H8XD-EC6	HYSTER H8XD-EC7		H9XD-EC7
	1-2	Powertrain / drivetrain			TIOND-LOO	Diesel		HBAD-LC/
_	1-3	Operator type				Seated		
GENERAL	1-5	Load capacity at load centre, nominal (1)	Q	kg	8,0			9,000
GEN	1-5	Load centre	C <sub>1</sub>	mm	0,0	1,220		3,000
	1-8	Load distance	x	mm		1,357		
	1-9	Wheelbase	y	mm		4,500		
	1-10	Container stacking height, 8'6" / 9'6"	,	#	6/5		7/6	
_	2-1	Service weight		kg	35,558	36,912	. , .	38,898
WEIGHT	2-2	Axle loading with load, front / rear		kg	35,313 / 8,194	36,794 / 8,068		38,193 / 9,655
WE	2-3	Axle loading without load, front / rear		kg	22,935 / 12,623	24,416 / 12,497		24,259 / 14,639
	3-1	Tyre type		Туре	,,	Pneumatic		
	3-2	Tyre size, front		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		14.00-24 24PR		
SLIS	3-3	Tyre size, rear				14.00-24 24PR		
WHEELS	3-5	Number of tyres, front / rear ( X driven )		#		x4/2		
5	3-6	Tread, front	b <sub>10</sub>	mm		3,282		
	3-7	Tread, rear	b <sub>11</sub>	mm		2,108		
	4-1	Mast tilt, forward / backward	-11 α/β	•		4/3		
	4-2	Height, mast lowered	h <sub>1</sub>	mm	9,495		0,795	
	4-3	Freelift	h <sub>2</sub>	mm		0		
	4-4	Lift	h <sub>3</sub>	mm	13,850		6,450	
	4-4-1	Lift minimum (2)	h <sub>3.1.1</sub>	mm		2,318		
	4-4-2	Lift maximum (2)	h <sub>3.1.2</sub>	mm	16,168	1	8,768	
	4-5	Height, mast extended	h <sub>4</sub>	mm	16,420	1	9,020	
	4-7-1	Height of overhead guard (closed cab)	h <sub>6</sub>	mm		3,844		
	4-7-2	Height of overhead guard (closed cab w/ strobe light )	h	mm		3,976		
SNO	4-7-3	Height of overhead guard (closed cab w/ work lights)	h <sub>6</sub>	mm		4,035		
DIMENSIONS	4-8	Seat height to SIP (3) (4)	h <sub>7</sub>	mm		2,676		
IMIC	4-19	Overall length	I,	mm		9,262		
	4-20	Length to face of spreader	$I_2$	mm		6,824		
	4-21	Overall width across drive tyres	b <sub>2</sub>	mm		4,110		
	4-23	Width across spreader, retracted / extended	b <sub>3</sub>	mm		6,084 / 12,218		
	4-31	Ground clearance, lowest point	m,	mm		236		
	4-32	Ground clearance, centre of wheelbase	m <sub>2</sub>	mm		383		
	4-33	Aisle width with 20' Container; REDUCED / FULL stroke	Ast <sub>20</sub>	mm		10,614 / 10,144		
	4-34	Aisle width with 40' Container; REDUCED / FULL stroke	Ast <sub>40</sub>	mm		14,180 / 13,875		
	4-35	Outside turning radius, reduced / full stroke	W <sub>a</sub>	mm		6,797 / 6,327		
	4-36	Internal turning radius, reduced / full stroke	b <sub>13</sub>	mm		3,438 / 2,620		
IIIA	5-1	Travel speed, with / without load		km/h		20 / 25		
PERFORMANCE - STAGE IIIA	5-2	Lifting speed, with / without load		m/s		0.51 / 0.67		
STA	5-2-1	Lifting speed, with 70% load		m/s		0.60		
CE -	5-3	Lowering speed with / without load		m/s		0.55 / 0.55		
MAN	5-5	Drawbar pull - 1 mph (1.6 km/h), with / without load		kN	149 / 150		8 / 150	
-ORI	5-6	Drawbar pull - max, with / without load		kN	179 / 181		9 / 180	00.100
PERI	5-7	Gradeability - 1 mph (1.6 km/h), with / without load (5)		%	37 / 39	36 / 38		33 / 36
	5-8	Gradeability - max, with / without load (5)		%	46 / 39	45 / 38		41 / 36
Ξ	5-1 5-2	Travel speed, with / without load		km/h		20 / 25		
PERFORMANCE - STAGE V	5-2 5-2-1	Lifting speed, with / without load		m/s		0.51 / 0.67 0.58		
- S	5-2-1	Lifting speed, with 70% load Lowering speed with / without load		m/s		0.58		
INCE	5-3 5-5	Drawbar pull - 1 mph (1.6 km/h), with / without load		m/s kN	160			159 / 161
RMA	5-5 5-6	Drawbar pull - max, with / without load		kN	193 / 194		2 / 194	1007 101
RFO	5-0	Gradeability - 1 mph (1.6 km/h), with / without load (5)		%	40 / 39	39 / 38	2/15/4	36 / 36
PE	5-8	Gradeability - Thipir (1.6 km/l), with / without load (5) Gradeability - max, with / without load (5)		%	49 / 39	48 / 38		45 / 36
				,0				

Raised cabin may result in reduced capacity since the "carry" height will be higher.
 Minimum/maximum height of twistlocks
 With raised cabin position add 39" / 1000 mm
 SIP to drive axle plus radius of tyres to ground using standard tyres
 Gradeability figures are provided for comparison of tractive performance, but are not intended to endorse the operation of vehicle on the stated inclines.

H9XD-E	
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1-2Model designationImage: Model		4.4	Manufacture						
1.4Operation / diversion (a)ICICICICIC1.4Operative typeCmm		1-1	Manufacturer				HYSTER		
Image         Image <thimage< th="">         Image         <th< td=""><td></td><th></th><td></td><td></td><td></td><td>H9XD-EC8</td><td></td><td>H9XD-ECD8</td></th<></thimage<>						H9XD-EC8		H9XD-ECD8	
90kg9.0001-31.5ad centre0.kg9.0001-31.5ad centre0.0.0.0001-31.5ad centre0.0001.3201-31.5ad centre9.mm4.5001-100.0010.0001.3577.161.162-20.0000.0001.0000.0000.0000.0002-30.0000.0000.0000.0000.0000.0002-40.0000.0000.0000.0000.0000.0002-40.0000.0000.0000.0000.0000.0002-50.0000.0000.0000.0000.0000.0003-51.0000.0000.0000.0000.0000.0003-51.0000.0000.0000.0000.0000.0003-61.0000.0000.0000.0000.0000.0003-71.0000.0000.0000.0000.0000.0003-81.0000.0000.0000.0000.0000.0003-91.0000.0000.0000.0000.0000.0003-91.0000.0000.0000.0000.0000.0003-91.0000.0000.0000.0000.0000.0003-91.0000.0000.0000.0000.0000.0003-91.0000.0000.0000.0000.0000.0003-9 <td></td> <th></th> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
111111111111111111112111111112211111111122111 <td>RAI</td> <th></th> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	RAI								
111111111111111111112111111112211111111122111 <td>ENE</td> <th></th> <td></td> <td></td> <td></td> <td></td> <td>,</td> <td></td>	ENE						,		
9 140Wheelsasey container stacking height, 8% / 9%"y mmm8./.76+1./5+17.+1./6+121Service weight8/.76.41.64730.46840.627 <td>5</td> <th></th> <td></td> <td>C<sub>1</sub></td> <td>mm</td> <td></td> <td></td> <td></td>	5			C <sub>1</sub>	mm				
100         Container stacking height, 80° / 90°         1         4         8 / 7         6 + 1 / 5 + 1         7 + 1 / 6 + 1           221         Arkie loading with oad, front / rear         1<		1-8		Х	mm				
2:1Service weightCircle kg kg4.1.47394840522:2Ake loading with out, front / rearIKg38896 / 10.54039808 / 40602 / 9.2512:3Ake loading with out, front / rearKg25592 / 1552425500 / 144302:3Aise loading with out, front / rearKg25592 / 1552475500 / 144302:3Nye kgeInternational (1.0242 APR)25500 / 1443025500 / 144302:3Nye kgeInternational (1.0242 APR)7400242 APR7400242 APR3:3Nye kgeNye kgeNye kge1400242 APR7400242 APR3:4Neat, rarbg, mm.225535077400242 APR4:4Matti Konard / backwardbg, mm.22559495107954:4Height, mast koweidh, mm190501385016.4504:4Lift minimum coh, mm2168616222182224:4Lift minimum coh, mm2168616220192004:4Lift minimum coh, mm2168616200192004:4Lift minimum coh, mm2168616200192004:4Lift minimum coh, mm2168616200192004:4Lift minimum coh, mm2168616200192004:4Lift minimum coh, mm2162016400192004:4Lift minimum coh, mm2162016		1-9		у	mm		4,500		
22Ade loading with load, front / rearImage for the set of the se			Container stacking height, 8'6" / 9'6"		#	8/7	6+1/5+1	7 + 1 / 6 + 1	
31Type type9PermanaticPermanatic32Type size, front114.00.24 24PR14.00.24 24PR33Type size, frontbumm3.2823.50734Tread, rearbu,mm3.2823.50734Tread, rearbu,mm1.2089.40510.79534Tread, rearbu,mm1.2089.40510.79534Tread, rearbu,mm1.2089.40510.79534Tread, rearbu,mm1.2089.40510.79534Tread, mat lowerdhu,mm1.20816.42016.42034Hight mat lowerdhu,mm1.218816.42019.02034Hight of overhead guard (closed call)hu,mm3.84419.02034Height of overhead guard (closed call work light)hu,mm3.84419.02034Height of overhead guard (closed call work light)hu,mm3.84414.7434Height of overhead guard (closed call work light)hu,mm3.84414.7434Seat height IS P (a)(a)hu,mm3.8564.1134Height of overhead guard (closed call work light)hu,mm3.85634Seat height IS P (a)(a)hu,mm3.8364.1134Seat height IS P (a)(a)hu,mm3.8373.83834Seat height IS P (a)(a)hu,m	Ŧ	2-1	Service weight		kg	41,487	39,468	40,852	
31Type type9PermanaticPermanatic32Type size, front114.00.24 24PR14.00.24 24PR33Type size, frontbumm3.2823.50734Tread, rearbu,mm3.2823.50734Tread, rearbu,mm1.2089.40510.79534Tread, rearbu,mm1.2089.40510.79534Tread, rearbu,mm1.2089.40510.79534Tread, rearbu,mm1.2089.40510.79534Tread, mat lowerdhu,mm1.20816.42016.42034Hight mat lowerdhu,mm1.218816.42019.02034Hight of overhead guard (closed call)hu,mm3.84419.02034Height of overhead guard (closed call work light)hu,mm3.84419.02034Height of overhead guard (closed call work light)hu,mm3.84414.7434Height of overhead guard (closed call work light)hu,mm3.84414.7434Seat height IS P (a)(a)hu,mm3.8564.1134Height of overhead guard (closed call work light)hu,mm3.85634Seat height IS P (a)(a)hu,mm3.8364.1134Seat height IS P (a)(a)hu,mm3.8373.83834Seat height IS P (a)(a)hu,m	WEIGHT	2-2	Axle loading with load, front / rear		kg	38,896 / 10,540	39,088 / 9,380	40,602 / 9,251	
32         Type size, front         Tab.         Tab. <thtab.< th=""> <thtab.< th="">         Tab.</thtab.<></thtab.<>	5	2-3	Axle loading without load, front / rear		kg	25,962 / 15,524	25,030 / 14,438	26,544 / 14,309	
3.3Tyre size, rear11 </td <td></td> <th>3-1</th> <td>Tyre type</td> <td></td> <td>Туре</td> <td></td> <td>Pneumatic</td> <td></td>		3-1	Tyre type		Туре		Pneumatic		
3-7       Tread, front       b <sub>n</sub> mm       mm       3.807         3-7       Tread, front       b <sub>n</sub> mm       mm       2,108         4-1       Mastilt, forward / backward       c <sub>1</sub> 0       m       1/2       1/3		3-2	Tyre size, front			14.00-24 24PR			
3-7       Tread, front       b <sub>n</sub> mm       mm       3.807         3-7       Tread, front       b <sub>n</sub> mm       mm       2,108         4-1       Mastilt, forward / backward       c <sub>1</sub> 0       m       1/2       1/3	WHEELS	3-3	Tyre size, rear			14.00-24 24PR			
3-7       Tread, front       b <sub>n</sub> mm       mm       3.807         3-7       Tread, front       b <sub>n</sub> mm       mm       2,108         4-1       Mastilt, forward / backward       c <sub>1</sub> 0       m       1/2       1/3	H	3-5	Number of tyres, front / rear ( X driven )		#		x4 / 2		
4-1Mast lik (forward / backwardr, r)r)T12,0959,49510,7954-2Height, mast loweredh, r)mm12,0959,49510,7954-3Freinith, r)mm19,05013,85016,4504-4.4Lift maximum (p)h, r)mm21,36816,32218,5224-4Lift maximum (p)h, r)mm21,86816,32218,5224-4Height, mast ackendedh, r)mm21,86016,42019,0204-72Height of overhead guard (closed cab)h, r)mm23,86316,32218,5224-73Height of overhead guard (closed cab wishob light)h, rimm-3,876		3-6	Tread, front	b <sub>10</sub>	mm	3,2	282	3,507	
4-1Mast lik (forward / backwardr, r)r)T12,0959,49510,7954-2Height, mast loweredh, r)mm12,0959,49510,7954-3Freinith, r)mm19,05013,85016,4504-4.4Lift maximum (p)h, r)mm21,36816,32218,5224-4Lift maximum (p)h, r)mm21,86816,32218,5224-4Height, mast ackendedh, r)mm21,86016,42019,0204-72Height of overhead guard (closed cab)h, r)mm23,86316,32218,5224-73Height of overhead guard (closed cab wishob light)h, rimm-3,876		3-7	Tread, rear		mm		2,108		
4-3         Freelit         h_2         mm         0         0           4-4         Lift         h,         mm         19,050         13,850         16,450           4-4.1         Lift maimum (p)         h_1,         mm         2472         18,922         18,922           4-5         Height, mast extended         h,         mm         21,620         16,420         19,020           4-7         Height of overhead guard (closed cab)         h,         mm         21,620         16,420         19,020           4-7         Height of overhead guard (closed cab // stope light)         h,         mm         3,844		4-1	Mast tilt, forward / backward		٥		4/3		
4-3         freeinft         h <sub>2</sub> mm         0         0           4-4         Lift minimum (p)         h <sub>3</sub> mm         19,050         13,830         16,450           4-4         Lift mainum (p)         h <sub>3</sub> mm         2472         18,922         18,922           4-5         Height of overhead guard (closed cab)         h <sub>1</sub> mm         21,020         16,420         19,020           4-7         Height of overhead guard (closed cab winds lights)         h <sub>2</sub> mm         2,376		4-2	Height, mast lowered	h <sub>1</sub>	mm	12,095	9,495	10,795	
44       Lift minimum (c)       h <sub>1</sub> , m       mm       19,050       13,850       16,450         44-4       Lift maintum (c)       h <sub>1</sub> , m       mm       21,368       16,322       18,922         44-5       Lift maintum (c)       h <sub>1</sub> , m       mm       21,368       16,322       18,922         4-72       Height of overhead guard (closed cab)       h <sub>1</sub> , m       mm       2,844       3,844         4-72       Height of overhead guard (closed cab wistabe light 1)       h <sub>1</sub> , m       mm       4,035       5,765         4-73       Height of sao of spreader       h <sub>1</sub> , m       mm       6,776       5,765       5,776       5,777       5,777       5,777       5,777       5,777       5,777       5,777       5,777       5,777       5,777       5,777       5,777       5,777<		4-3	Freelift		mm		0		
4-1         Lift minimum (p)         h <sub>1,1</sub> nm         2,472           4-2         Lift minimum (p)         h <sub>1,1</sub> nm         21,368         16,420         18,922           4-3         Height, mast extended         h <sub>1</sub> nm         21,620         16,420         18,922           4-7         Height of overhead guard (closed cab)         h <sub>0</sub> nm         3.844         5.920           4-7.3         Height of overhead guard (closed cab w/ strobe light)         h <sub>0</sub> nm         3.876		4-4	Lift		mm	19,050	13,850	16,450	
4-42       Lift maximum (2)       ht, 1, 1       mm       21,388       16,322       18,822         4-5       Height mist extended       h, mm       01,620       19,020         4-7.1       Height of overhead guard (closed cab)       h, mm       mm       3,976       3,976         4-7.2       Height of overhead guard (closed cab w/ strobe light)       h, mm       mm       -2,676       -         4-7.3       Height of overhead guard (closed cab w/ strobe light)       h, mm       mm       -2,676       -         4-49       Overall length       1, mm       mm       -2,676       -       -         4-40       Length to face of spreader       l, mm       mm       -2,676       -       -         4-41       Overall width across preader, retracted / extended       b, mm       md       - </td <td></td> <th>4-4-1</th> <td>Lift minimum (2)</td> <td></td> <td>mm</td> <td></td> <td>2,472</td> <td></td>		4-4-1	Lift minimum (2)		mm		2,472		
4-5       Height, mast extended       h <sub>4</sub> mm       21,620       16,420       19,020         4-7.2       Height of overhead guard (closed cab) wistrobe light)       h <sub>4</sub> mm       3,844         4-7.2       Height of overhead guard (closed cab wistrobe light)       h <sub>4</sub> mm       3,976         4-7.3       Height of overhead guard (closed cab wistrobe light)       h <sub>4</sub> mm       2,075         4-7.3       Height of overhead guard (closed cab wistrobe light)       h <sub>4</sub> mm       4,035		4-4-2	Lift maximum (2)		mm	21,368	16,322	18,922	
4-7.1Height of overhead guard (closed cab)he k mmmm3.8444-7.2Height of overhead guard (closed cab w/ work light)he k mmmm3.9764-7.3Height of overhead guard (closed cab w/ work lights)h k mmmm4.0354-8.Seat height to SIP ca)(a)h r mmmm2.6764-9.Overall lengthl r mmmm9.2144-20Length to face of spreaderl r r dmm4.3354.114-23Width across spreader, retracted / extendedb s mmmm4.3354.114-23Width across spreader, retracted / extendedb s mmmm3.8444-34Asile width with 20' Container, REDUCED / FULL strokeAst m mmmm10.566 / 12.7004-33Asile width with 20' Container, REDUCED / FULL strokeAst m mmmm14.382 / 14.0814-34Asile width with 40' Container, REDUCED / FULL strokeAst m mmmm-20 / 254-35Outside turning radius, reduced / full strokeW mmmm-20 / 254-34Asile width with 40' Container, REDUCED / FULL strokeAst mmm-20 / 254-35Outside turning radius, reduced / full strokeW mmm-20 / 255-11Travel speed, with / without loadm/sSoft - 55 / 0.555-22Lifting speed, with / without loadm/s31 / 3533 / 335-35Drawbar pull - max, with / without loadm/s		4-5	Height, mast extended		mm	21,620	16,420	19,020	
4-7-2Height of overhead guard (closed cab w/ strobe light)h_{e}mm3,9764-7.3Height of overhead guard (closed cab w/ work lights)h_{e}mm4,0354-7.3Height of Stroerhead guard (closed cab w/ work lights)h_{e}mm4,0354-7.3Height of Stroerhead guard (closed cab w/ work lights)h_{e}mm2,6764-19Overall lengthL,mm9,2144-20Length to face of spreaderL,mm4,3354,1104-21Overall width across drive tyresb_{a}mm4,3354,1104-23Ground clearance, lowest pointm,mm3834-33Aisle width with 20 Container, REDUCED / FULL strokeAst <sub>a</sub> mm10,566 / 12,7004-34Aisle width with 20 Container, REDUCED / FULL strokeAst <sub>a</sub> mm14,382 / 14,0814-35Outside turning radius, reduced / full strokeW,mm6,777 / 6,3274-36Internal turning radius, reduced / full strokeW,mm3,438 / 2,6204-35Outside turning radius, reduced / full strokebnmm3,438 / 2,6204-34Iting speed, with / without loadm/s0,467 / 0.615-21Lifting speed, with / without loadm/s0,467 / 0.615-22Lifting speed, with / without loadm/s0,557 / 0.555-24Lifting speed, with / without loadKN147 / 1495-5Drawbar pull - 1mph (1.6 km/h), with / without loadK31 / 3531 / 39<		4-7-1	Height of overhead guard (closed cab)		mm				
4.7.3Height of overhead guard (closed cab w/ work lights) $h_{ij}$ mm $4,035$ 4-8Seat height to SIP (o) (o) $h_{j}$ nm $2,676$ 4-19Overall length $l_{ij}$ nm $9,214$ 4-20Longth to face of spreader $l_{ij}$ nm $4,335$ 4-21Overall width across drive tyres $b_{j}$ nm $4,335$ $4,110$ 4-23Width across spreader, retracted / extended $b_{s}$ nm $4,335$ $4,110$ 4-23Ground clearance, lowest pointm,nm $236$ 4-33Ground clearance, centre of wheelbase $m_{s}$ nm $-3833$ 4-33Aisle width with 20 Container, REDUCED / FULL stroke $Ast_{s0}$ nm $-14,382/14,081$ 4-34Aisle width with 40 Container, REDUCED / FULL stroke $Ast_{s0}$ nm $-14,382/14,081$ 4-35Outside turning radius, reduced / full stroke $V_{s1}$ nm $-3,438/2,620$ 4-36Internal turning radius, reduced / full stroke $V_{s1}$ nm $-3,438/2,620$ 5-1Travel speed, with / without loadm/s $-0.54$ $-0.55/0.55$ 5-2Lifting speed, with / without loadm/s $0.55/0.55$ $-5.5$ 5-3Lowering speed with / without loadK/n $22/38$ 5-4Travel speed, with / without loadK/n $22/38$ 5-5Drawbar pull - max, with / without loadK/n $22/38$ 5-7Gradeability - nax, with / without loadK/n $22/38$ 5-8Travel		4-7-2			mm		3,976		
4-20Length to face of spreaderILmm6.7764-21Overall width across drive tyresb2mm4.3354.114-23Width across spreader, retracted / extendedb3mm6.566 / 12.7004-31Ground clearance, lowest pointmmm2264-32Ground clearance, centre of wheelbasem2mm3834-33Aisle width with 20' Container; REDUCED / FULL strokeAst <sub>20</sub> mm-3834-34Aisle width with 40' Container; REDUCED / FULL strokeAst <sub>20</sub> mm-76,776,63274-35Outside turning radius, reduced / full strokeW3mm-76,776,63274-36Internal turning radius, reduced / full strokeW3mm-20/255-1Travel speed, with / without loadm/s-0.46 / 0.61-5-2Lifting speed, with / without loadm/s-0.54-5-3Lowering speed with / without loadm/s-0.51 / 0.55-5-4Drawbar pull - max, with / without loadm/s31/3533/3932 / 335-5Drawbar pull - max, with / without loadm/s5-6Drawbar pull - max, with / without loadm/s5-7Gradeability - 1 mph (1.6 km/h), with / without loadm/s-0.535-8Drawbar pull - max, with / without loadm/s-0.535-9Drawbar pull - max, with / without loadm/s-0.535-1Lifting speed, with / without load	SNC								
4-20Length to face of spreaderILmm6.7764-21Overall width across drive tyresb2mm4.3354.114-23Width across spreader, retracted / extendedb3mm6.566 / 12.7004-31Ground clearance, lowest pointmmm2264-32Ground clearance, centre of wheelbasem2mm3834-33Aisle width with 20' Container; REDUCED / FULL strokeAst <sub>20</sub> mm-3834-34Aisle width with 40' Container; REDUCED / FULL strokeAst <sub>20</sub> mm-76,776,63274-35Outside turning radius, reduced / full strokeW3mm-76,776,63274-36Internal turning radius, reduced / full strokeW3mm-20/255-1Travel speed, with / without loadm/s-0.46 / 0.61-5-2Lifting speed, with / without loadm/s-0.54-5-3Lowering speed with / without loadm/s-0.51 / 0.55-5-4Drawbar pull - max, with / without loadm/s31/3533/3932 / 335-5Drawbar pull - max, with / without loadm/s5-6Drawbar pull - max, with / without loadm/s5-7Gradeability - 1 mph (1.6 km/h), with / without loadm/s-0.535-8Drawbar pull - max, with / without loadm/s-0.535-9Drawbar pull - max, with / without loadm/s-0.535-1Lifting speed, with / without load	ISIO								
4-20Length to face of spreaderILmm6.7764-21Overall width across drive tyresb2mm4.3354.114-23Width across spreader, retracted / extendedb3mm6.566 / 12.7004-31Ground clearance, lowest pointmmm2264-32Ground clearance, centre of wheelbasem2mm3834-33Aisle width with 20' Container; REDUCED / FULL strokeAst <sub>20</sub> mm-3834-34Aisle width with 40' Container; REDUCED / FULL strokeAst <sub>20</sub> mm-76,776,63274-35Outside turning radius, reduced / full strokeW3mm-76,776,63274-36Internal turning radius, reduced / full strokeW3mm-20/255-1Travel speed, with / without loadm/s-0.46 / 0.61-5-2Lifting speed, with / without loadm/s-0.54-5-3Lowering speed with / without loadm/s-0.51 / 0.55-5-4Drawbar pull - max, with / without loadm/s31/3533/3932 / 335-5Drawbar pull - max, with / without loadm/s5-6Drawbar pull - max, with / without loadm/s5-7Gradeability - 1 mph (1.6 km/h), with / without loadm/s-0.535-8Drawbar pull - max, with / without loadm/s-0.535-9Drawbar pull - max, with / without loadm/s-0.535-1Lifting speed, with / without load	ΒW								
4-21 4-22Overall width across drive tyresb2 b3 mmmm4,3354,1104-23 4-23Width across spreader, retracted / extendedb3 mmmm6,566 / 12,7004-31 4-32 Ground clearance, lowest pointm, mg mmmm2364-33 4-34 A kise width with 20 Container, REDUCED / FULL strokeAst mmmm10,566 / 10,0964-34 4-35 4-34Aisle width with 20 Container, REDUCED / FULL strokeAst mmmm14,382 / 14,0814-35 4-34 4-35 butside turning radius, reduced / full strokeW1 mmmm6,797 / 6,3274-36 5-1 5-2 5-1 5-2 5-2 Lifting speed, with / without loadmm3,438 / 2,6205-2 5-2 5-5 5-5 5-5 5-7 5-8 5-8 5-8 6 radeability - 1 mph (1.6 km/h), with / without loadm/s0.46 / 0.615-6 5-5 5-7 5-7 6 radeability - 1 mph (1.6 km/h), with / without loadm/s0.55 / 0.555-5 5-7 5-7 6 radeability - 1 mph (1.6 km/h), with / without load%31 / 3533 / 395-1 5-2 6 radeability - 1 mph (1.6 km/h), with / without load%%30 / 355-3 5-5 5-7 5-7 6 radeability - 1 mph (1.6 km/h), with / without load%%30 / 355-4 5-5 5-7 5-			-						
4-22Width across spreader, retracted / extendedb3mm $6.566 / 12,700$ 4-31Ground clearance, lowest pointm,mm2364-32Ground clearance, centre of wheelbasem2mm3834-33Aisle width with 20' Container, REDUCED / FULL strokeAst <sub>00</sub> mm10.566 / 10.0964-34Aisle width with 40' Container, REDUCED / FULL strokeAst <sub>00</sub> mm14.382 / 14.0814-35Outside turning radius, reduced / full strokeW4mm6,797 / 6,3274-36Internal turning radius, reduced / full strokeW4mm3.438 / 2,6205-1Travel speed, with / without loadm/s0.46 / 0.615-2Lifting speed, with / without loadm/s0.5645-3Lowering speed with / without loadm/s0.551 / 0.555-4Travel speed, with / without loadkN147 / 149148 / 1495-5Drawbar pull - max, with / without load%31 / 3533 / 395-4Travel speed, with / without load (s)%31 / 3533 / 395-5Drawbar pull - max, with / without load (s)%39 / 3541 / 395-6Drawbar pull - max, with / without loadm/s0.46 / 0.615-7Lifting speed, with / without loadm/s0.55 / 0.555-8Gradeability - max, with / without loadm/s0.55 / 0.555-7Drawbar pull - max, with / without loadm/s0.55 / 0.555-8Drawbar pull - max, with / without loadm/s0.				-		4 335		10	
4-31Ground clearance, lowest pointmmm2364-32Ground clearance, centre of wheelbasem2mm3834-33Aisle width with 20' Container; REDUCED / FULL strokeAst20mm10,566 / 10,0964-34Aisle width with 40' Container; REDUCED / FULL strokeAst20mm14,382 / 14,0814-35Outside turning radius, reduced / full strokeW2mm6,797 / 6,3274-36Internal turning radius, reduced / full strokeb13mm3,438 / 2,6205-1Travel speed, with / without loadm/s0.46 / 0.615-2Lifting speed, with / without loadm/s0.5545-2Lifting speed, with / without loadm/s0.557 / 0.555-3Drawbar pull - 1 mph (1.6 km/h), with / without loadkN147 / 1495-6Drawbar pull - max, with / without loadkN178 / 1805-7Gradeability - max, with / without loadm/s0.46 / 0.615-7Gradeability - max, with / without loadkN147 / 1495-6Drawbar pull - max, with / without load (s)%31 / 3533 / 395-1Travel speed, with / without loadkm/h20 / 255-2Lifting speed, with / without loadkm/h20 / 255-3Drawbar pull - max, with / without loadkM178 / 1805-4Starte speed, with / without loadkN178 / 1805-5Drawbar pull - max, with / without loadm/s0.55 / 0.555-6Drawbar pull - max, with / witho		_	-						
4-32Ground clearance, centre of wheelbase $m_2$ mm3834-33Aisle width with 20' Container, REDUCED / FULL strokeAst <sub>20</sub> mm10,566 / 10,0964-34Aisle width with 40' Container, REDUCED / FULL strokeAst <sub>20</sub> mm14,382 / 14,0814-35Outside turning radius, reduced / full strokeWsmm $6,797 / 6,327$ 4-36Internal turning radius, reduced / full strokeb <sub>13</sub> mm $3,438 / 2,620$ 5-1Travel speed, with / without loadm/h $20 / 25$ 5-2Lifting speed, with / without loadm/s $0.466 / 0.61$ 5-2.1Lifting speed, with / without loadm/s $0.554$ 5-5Drawbar pull - 1 mph (1.6 km/h), with / without loadm/s $0.55 / 0.55$ 5-5Drawbar pull - 1 mph (1.6 km/h), with / without load% $31 / 35$ $33 / 39$ 5-7Gradeability - max, with / without load%% $31 / 35$ $33 / 39$ 5-1Travel speed, with / without load%% $31 / 35$ $33 / 39$ 5-7Gradeability - max, with / without load (s)% $31 / 35$ $33 / 39$ $32 / 38$ 5-1Travel speed, with / without load%% $0.46 / 0.61$ 5-2Lifting speed, with / without load% $39 / 35$ $41 / 39$ $39 / 38$ 5-1Travel speed, with / without load% $0.55 / 0.55$ $5.5$ 5-2Lifting speed, with / without loadm/s $0.53 / 0.55 / 0.55$ 5-3Drawbar pull - 1 mph (1.6 km/h), wit									
4-33Aisle width with 20' Container; REDUCED / FULL strokeAst $t_{20}$ mm10.566 / 10.0964-34Aisle width with 40' Container; REDUCED / FULL strokeAst $t_{0}$ mm14.382 / 14.0814-35Outside turning radius, reduced / full strokeWamm $6.797 / 6.327$ 4-36Internal turning radius, reduced / full strokeb13mm $3.438 / 2.620$ 5-1Travel speed, with / without loadm/h $20 / 25$ 5-2Lifting speed, with / without loadm/s $0.46 / 0.61$ 5-2.1Lifting speed, with 70% loadm/s $0.55 / 0.55$ 5-3Lowering speed with / without loadm/s $0.55 / 0.55$ 5-45-5Drawbar pull - 1 mph (1.6 km/h), with / without load (5)m/s $31 / 35$ 5-6Drawbar pull - 1 mph (1.6 km/h), with / without load (5)m/s $0.46 / 0.61$ 5-7Gradeability - max, with / without load (5)m/s $0.46 / 0.61$ 5-8Gradeability - 1 mph (1.6 km/h), with / without load (5)m/s $31 / 35$ 5-1Travel speed, with / without loadm/s $0.53 / 0.55$ 5-2Lifting speed, with / without loadm/s $0.53 / 0.55$ 5-2Lifting speed, with / without loadm/s $0.53 / 0.55$ 5-2Lifting speed, with / without loadm/s $0.53 / 0.55 / 0.55$ 5-3Lowering speed with / without loadm/s $0.53 / 0.55 / 0.55 / 0.55$ 5-5Drawbar pull - 1 mph (1.6 km/h), with / without loadm/s $0.55 / 0.55 / 0.55 / 0.55 / 0.55 / 0.55 / 0.55$									
4-34       Aisle width with 40' Container, REDUCED / FULL stroke       Asta       mm       14,382 / 14,081         4-35       Outside turning radius, reduced / full stroke       Ws       mm       3,438 / 2,620         4-36       Internal turning radius, reduced / full stroke       b13       mm       3,438 / 2,620         5-1       Travel speed, with / without load       km/h       20 / 25         5-2       Lifting speed, with / without load       m/s       0.46 / 0.61         5-2.1       Lifting speed, with / without load       m/s       0.54         5-3       Lowering speed with / without load       m/s       0.55 / 0.55         5-5       Drawbar pull - 1 mph (1.6 km/h), with / without load       kN       147 / 149         5-6       Drawbar pull - 1 mph (1.6 km/h), with / without load (s)       %       31 / 35       33 / 39       32 / 38         5-7       Gradeability - 1 mph (1.6 km/h), with / without load (s)       %       39 / 35       41 / 39       39 / 38         5-1       Travel speed, with / without load       m/s       0.53       53       33 / 39       32 / 38         5-7       Gradeability - 1 mph (1.6 km/h), with / without load       m/s       0.53       53       53       54 / 0.61         5-2.1       Lifting speed, with /		_		~					
4-35       Outside turning radius, reduced / full stroke       Wa       mm       6,797 / 6,327         4-36       Internal turning radius, reduced / full stroke       b13       mm       3,438 / 2,620         5-1       Travel speed, with / without load       km/h       20 / 25         5-2       Lifting speed, with / without load       m/s       0.46 / 0.61         5-2.1       Lifting speed, with / without load       m/s       0.55 / 0.55         5-3       Lowering speed with / without load       m/s       0.55 / 0.55         5-5       Drawbar pull - 1 mph (1.6 km/h), with / without load       kN       147 / 149         5-6       Drawbar pull - 1 mph (1.6 km/h), with / without load (s)       %       31 / 35       33 / 39       32 / 38         5-7       Gradeability - 1 mph (1.6 km/h), with / without load (s)       %       39 / 35       41 / 39       39 / 38         5-1       Travel speed, with / without load       m/s       0.53       3 / 39       32 / 38         5-1       Travel speed, with / without load       m/s       0.51       53       3 / 39       32 / 38         5-2       Lifting speed, with / without load       m/s       0.53       53       53       54       53       54       53       54       55		_							
4-36Internal turning radius, reduced / full stroke $b_{13}$ mm $3,438 / 2,620$ 5-1Travel speed, with / without loadkm/h $20 / 25$ 5-2Lifting speed, with / without loadm/s $0.46 / 0.61$ 5-2.1Lifting speed, with / without loadm/s $0.55 / 0.55$ 5-3Lowering speed with / without loadm/s $0.55 / 0.55$ 5-5Drawbar pull - 1 mph (1.6 km/h), with / without loadkN147 / 1495-6Drawbar pull - max, with / without loadkN147 / 1495-6Drawbar pull - max, with / without load (5)%31 / 3533 / 395-8Gradeability - 1 mph (1.6 km/h), with / without load (5)%%39 / 355-1Travel speed, with / without loadkm/h $20 / 25$ 5-2Lifting speed, with / without load%39 / 3541 / 395-3Lowering speed, with / without load%m/s $0.46 / 0.61$ 5-2.1Lifting speed, with / without load%m/s $0.53 / 0.55$ 5-3Lowering speed, with / without load%m/s $0.55 / 0.55$ 5-4Lifting speed, with / without load%m/s $0.55 / 0.55$ 5-5Drawbar pull - 1 mph (1.6 km/h), with / without load%M $0.55 / 0.55$ 5-5Drawbar pull - 1 mph (1.6 km/h), with / without load% $34 / 35$ $36 / 39$ 5-6Drawbar pull - max, with / without load% $34 / 35$ $36 / 39$ $34 / 38$									
5-1Travel speed, with / without loadkm/h20 / 255-2Lifting speed, with / without loadm/s0.46 / 0.615-2.1Lifting speed, with 70% loadm/s0.55 / 0.555-3Lowering speed with / without loadm/s0.55 / 0.555-5Drawbar pull - 1 mph (1.6 km/h), with / without load (s)kN147 / 1495-6Drawbar pull - 1 mph (1.6 km/h), with / without load (s)%31 / 3533 / 395-8Gradeability - 1 mph (1.6 km/h), with / without load (s)%39 / 3541 / 395-1Travel speed, with / without load%39 / 3541 / 3939 / 385-1Travel speed, with / without load (s)%39 / 3541 / 3939 / 385-1Travel speed, with / without loadm/s0.46 / 0.61100 / 255-2Lifting speed, with / without loadm/s0.55 / 0.550.535-3Lowering speed with / without loadm/s0.55 / 0.550.555-5Drawbar pull - 1 mph (1.6 km/h), with / without loadm/s0.55 / 0.550.555-5Drawbar pull - 1 mph (1.6 km/h), with / without loadkN192 / 19334 / 385-6Drawbar pull - 1 mph (1.6 km/h), with / without load (s)%34 / 3536 / 3934 / 38									
5-2Lifting speed, with / without loadm/s.0.46 / 0.615-2-1Lifting speed, with 70% loadm/s.0.545-3Lowering speed with / without loadm/s.0.55 / 0.555-5Drawbar pull - 1 mph (1.6 km/h), with / without loadkN147 / 149148 / 1495-6Drawbar pull - max, with / without load (s)%31 / 3533 / 3932 / 385-8Gradeability - 1 mph (1.6 km/h), with / without load (s)%39 / 3541 / 3939 / 385-1Travel speed, with / without loadm/s.0.55 / 0.555-2Lifting speed, with / without loadm/s5-3Lowering speed with / without loadm/s5-4Travel speed, with / without loadm/s5-2Lifting speed, with / without loadm/s5-2-1Lifting speed, with / without loadm/s5-3Lowering speed with / without loadm/s5-4Lifting speed, with / without loadm/s5-5Drawbar pull - 1 mph (1.6 km/h), with / without load5-6Drawbar pull - 1 mph (1.6 km/h), with / without load (s)5-7Gradeability - 1 mph (1.6 km/h),	/			<b>U</b> <sub>13</sub>					
5-1Travel speed, with / without loadkm/h20 / 255-2Lifting speed, with / without loadm/s0.46 / 0.615-2.1Lifting speed, with / without loadm/s0.535-3Lowering speed with / without loadm/s0.55 / 0.555-3Drawbar pull - 1 mph (1.6 km/h), with / without loadkN159 / 1605-6Drawbar pull - max, with / without load (s)kN34 / 3536 / 395-7Gradeability - 1 mph (1.6 km/h), with / without load (s)%34 / 3536 / 39									
5-1Travel speed, with / without loadkm/h20 / 255-2Lifting speed, with / without loadm/s0.46 / 0.615-2.1Lifting speed, with / without loadm/s0.535-3Lowering speed with / without loadm/s0.55 / 0.555-3Drawbar pull - 1 mph (1.6 km/h), with / without loadkN159 / 1605-6Drawbar pull - max, with / without load (s)kN34 / 3536 / 395-7Gradeability - 1 mph (1.6 km/h), with / without load (s)%34 / 3536 / 39	'AGE								
5-1Travel speed, with / without loadkm/h20 / 255-2Lifting speed, with / without loadm/s0.46 / 0.615-2.1Lifting speed, with / without loadm/s0.535-3Lowering speed with / without loadm/s0.55 / 0.555-3Drawbar pull - 1 mph (1.6 km/h), with / without loadkN159 / 1605-6Drawbar pull - max, with / without load (s)kN34 / 3536 / 395-7Gradeability - 1 mph (1.6 km/h), with / without load (s)%34 / 3536 / 39	- ST								
5-1Travel speed, with / without loadkm/h20 / 255-2Lifting speed, with / without loadm/s0.46 / 0.615-2.1Lifting speed, with / without loadm/s0.535-3Lowering speed with / without loadm/s0.55 / 0.555-3Drawbar pull - 1 mph (1.6 km/h), with / without loadkN159 / 1605-6Drawbar pull - max, with / without load (s)kN34 / 3536 / 395-7Gradeability - 1 mph (1.6 km/h), with / without load (s)%34 / 3536 / 39	NCE					147 / 149		147 / 149	
5-1Travel speed, with / without loadkm/h20 / 255-2Lifting speed, with / without loadm/s0.46 / 0.615-2.1Lifting speed, with / without loadm/s0.535-3Lowering speed with / without loadm/s0.55 / 0.555-3Drawbar pull - 1 mph (1.6 km/h), with / without loadkN159 / 1605-6Drawbar pull - max, with / without load (s)kN34 / 3536 / 395-7Gradeability - 1 mph (1.6 km/h), with / without load (s)%34 / 3536 / 39	MA					147 / 147		177/143	
5-1Travel speed, with / without loadkm/h20 / 255-2Lifting speed, with / without loadm/s0.46 / 0.615-2.1Lifting speed, with / without loadm/s0.535-3Lowering speed with / without loadm/s0.55 / 0.555-3Drawbar pull - 1 mph (1.6 km/h), with / without loadkN159 / 1605-6Drawbar pull - max, with / without load (s)kN34 / 3536 / 395-7Gradeability - 1 mph (1.6 km/h), with / without load (s)%34 / 3536 / 39	FOR					31/35		20/38	
5-1Travel speed, with / without loadkm/h20 / 255-2Lifting speed, with / without loadm/s0.46 / 0.615-2.1Lifting speed, with / without loadm/s0.535-3Lowering speed with / without loadm/s0.55 / 0.555-3Drawbar pull - 1 mph (1.6 km/h), with / without loadkN159 / 1605-6Drawbar pull - max, with / without load (s)kN34 / 3536 / 395-7Gradeability - 1 mph (1.6 km/h), with / without load (s)%34 / 3536 / 39	PER								
5-2       Lifting speed, with / without load       m/s       0.46 / 0.61         5-2-1       Lifting speed, with 70% load       m/s       0.53         5-3       Lowering speed with / without load       m/s       0.55 / 0.55         5-3       Lowering speed with / without load       m/s       0.55 / 0.55         5-5       Drawbar pull - 1 mph (1.6 km/h), with / without load       kN       159 / 160         5-6       Drawbar pull - max, with / without load (s)       %       34 / 35       36 / 39       34 / 38						39/30		39730	
3-2       Litting speed, with / Without load       m/s       0.46 / 0.61         5-2-1       Lifting speed, with 70% load       m/s       0.53         5-3       Lowering speed with / without load       m/s       0.55 / 0.55         5-5       Drawbar pull - 1 mph (1.6 km/h), with / without load       kN       159 / 160         5-6       Drawbar pull - max, with / without load (5)       %       34 / 35       36 / 39       34 / 38         5-7       Gradeability - 1 mph (1.6 km/h), with / without load (5)       %       42 / 35       44 / 39       43 / 38	>								
3-2-1       Linking speed, with 70% road       m/s       0.53         5-3       Lowering speed with / without load       m/s       0.55 / 0.55         5-5       Drawbar pull - 1 mph (1.6 km/h), with / without load       kN       159 / 160         5-6       Drawbar pull - max, with / without load       kN       192 / 193         5-7       Gradeability - 1 mph (1.6 km/h), with / without load (5)       %       34 / 35       36 / 39       34 / 38         5-8       Gradeability - max, with / without load (5)       %       42 / 35       44 / 39       43 / 38	TAG								
5-5         Drawbar pull - 1 mph (1.6 km/h), with / without load         m/s         0.55 / 0.55           5-5         Drawbar pull - 1 mph (1.6 km/h), with / without load         kN         159 / 160           5-6         Drawbar pull - max, with / without load         kN         192 / 193           5-7         Gradeability - 1 mph (1.6 km/h), with / without load (5)         %         34 / 35         36 / 39         34 / 38           5-8         Gradeability - max, with / without load (5)         %         42 / 35         44 / 39         43 / 38	- S								
S-5       Drawbar pull - 1 mpn (1.6 km/n), with / without load       KN       159 / 160         5-6       Drawbar pull - max, with / without load       kN       192 / 193         5-7       Gradeability - 1 mph (1.6 km/h), with / without load (5)       %       34 / 35       36 / 39       34 / 38         5-8       Gradeability - max, with / without load (5)       %       42 / 35       44 / 39       43 / 38	NCE	_							
S=0       Urawoar pull - max, with / without load       kN       192 / 193         S=0       Urawoar pull - max, with / without load       kN       192 / 193         S=7       Gradeability - 1 mph (1.6 km/h), with / without load (5)       %       34 / 35       36 / 39       34 / 38         S=8       Gradeability - max, with / without load (5)       %       42 / 35       44 / 39       43 / 38	MA								
5-7         Gradeability - 1 mph (1.6 km/h), with / without load (5)         %         34 / 35         36 / 39         34 / 38           5-8         Gradeability - max, with / without load (5)         %         42 / 35         44 / 39         43 / 38	FOR					04/05		04/00	
Gradeability - max, with / without load (5) % 42 / 35 44 / 39 43 / 38	PER								
		5-8	Gradeability - max, with / without load (5)		%	42 / 35	44 / 39	43 / 38	

Raised cabin may result in reduced capacity since the "carry" height will be higher.
 Minimum/maximum height of twistlocks
 With raised cabin position add 39" / 1000 mm
 SIP to drive axle plus radius of tyres to ground using standard tyres
 Gradeability figures are provided for comparison of tractive performance, but are not intended to endorse the operation of vehicle on the stated inclines.

### EC8 / H9XD-ECD7 / H9XD-ECD8 SPECIFICATIONS

### H10XD-ECD8 / H11XD-ECD8 / H11XD-ECD9 SPECIFICATIONS

						11/0750		
	1-1	Manufacturer				HYSTER		
	1-2	Model designation			H10XD-ECD8	H11XD-ECD8	H11XD-ECD9	
_	1-3	Powertrain / drivetrain				Diesel		
GENERAL	1-4 1-5	Operator type	0	ka	10.000	Seated	000	
GEN	1-5	Load capacity at load centre, nominal (1) Load centre	Q	kg	10,000	1,220	000	
	1-8	Load distance	C <sub>1</sub>	mm		1,357		
	1-0	Wheelbase		mm mm		4,500		
	1-10	Container stacking height, 8'6" / 9'6"	у	#	7 ± 1	4,000	8+1/7+1	
	2-1	Service weight		# kg	41,886	42,847	44,198	
WEIGHT	2-1	Axle loading with load, front / rear		kg	42,166 / 9,719	43,730 / 10,117	45,207 / 9,990	
WEI	2-2	Axle loading without load, front / rear		kg	26,546 / 15,339	26,548 / 16,299	28,025 / 16,172	
	3-1	Tyre type		Туре			20,0207 10,172	
	3-2	Tyre size, front		Type	14.00-24 24PR			
rs	3-3	Tyre size, rear				14.00-24 24PR		
WHEELS	3-5	Number of tyres, front / rear ( X driven )		#		x4/2		
8	3-6	Tread, front	b <sub>10</sub>	mm		3,507		
	3-7	Tread, rear	b <sub>10</sub> b <sub>11</sub>	mm		2,108		
	4-1	Mast tilt, forward / backward	α/β	•		4/3		
	4-2	Height, mast lowered	h <sub>1</sub>	mm	10.	795	12,095	
	4-3	Freelift	h <sub>2</sub>	mm	10,	0	,	
	4-4	Lift	h <sub>3</sub>	mm	16.	450	19,050	
	4-4-1	Lift minimum (2)	h <sub>3.1.1</sub>	mm	.,	2,472		
	4-4-2	Lift maximum (2)	h <sub>3.1.2</sub>	mm	18,	922	21,522	
	4-5	Height, mast extended	h <sub>4</sub>	mm	19,	020	21,620	
	4-7-1	Height of overhead guard (closed cab)	h <sub>6</sub>	mm		3,844		
	4-7-2	Height of overhead guard (closed cab w/ strobe light )	h <sub>6</sub>	mm		3,976		
SNC	4-7-3	Height of overhead guard (closed cab w/ work lights)	h	mm		4,035		
DIMENSIONS	4-8	Seat height to SIP (3) (4)	h <sub>7</sub>	mm	2,676			
IME	4-19	Overall length	I,	mm		9,214		
	4-20	Length to face of spreader	I <sub>2</sub>	mm		6,776		
	4-21	Overall width across drive tyres	b <sub>2</sub>	mm		4,335		
	4-23	Width across spreader, retracted / extended	b <sub>3</sub>	mm		6,566 / 12,700		
	4-31	Ground clearance, lowest point	m,	mm		236		
	4-32	Ground clearance, centre of wheelbase	m <sub>2</sub>	mm		383		
	4-33	Aisle width with 20' Container; REDUCED / FULL stroke	Ast <sub>20</sub>	mm		10,566 / 10,096		
	4-34	Aisle width with 40' Container; REDUCED / FULL stroke	Ast <sub>40</sub>	mm		14,382 / 14,081		
	4-35	Outside turning radius, reduced / full stroke	Wa	mm		6,797 / 6,327		
	4-36	Internal turning radius, reduced / full stroke	b <sub>13</sub>	mm		3,438 / 2,620		
All	5-1	Travel speed, with / without load		km/h		20 / 25		
PERFORMANCE - STAGE IIIA	5-2	Lifting speed, with / without load		m/s		0.46 / 0.61		
STA	5-2-1	Lifting speed, with 70% load		m/s		0.54		
CE -	5-3	Lowering speed with / without load		m/s		0.55 / 0.55		
AAN	5-5	Drawbar pull - 1 mph (1.6 km/h), with / without load		kN		/ 149	147 / 148	
ORN	5-6	Drawbar pull - max, with / without load		kN	178 / 180 177 / 179			
ERF	5-7	Gradeability - 1 mph (1.6 km/h), with / without load (5)		%	30 / 37	29 / 37	28 / 36	
-	5-8	Gradeability - max, with / without load (5)		%	37 / 37	36 / 37	35 / 36	
>	5-1	Travel speed, with / without load		km/h	20 / 25			
TAGE	5-2	Lifting speed, with / without load		m/s		0.46 / 0.61		
PERFORMANCE - STAGE V	5-2-1	Lifting speed, with 70% load		m/s		0.53		
NCE	5-3	Lowering speed with / without load		m/s		0.55 / 0.55		
RMA	5-5	Drawbar pull - 1 mph (1.6 km/h), with / without load		kN		158 / 160		
<b>FOF</b>	5-6	Drawbar pull - max, with / without load		kN ø/	00/07	191 / 193	24/26	
PER	5-7 5-8	Gradeability - 1 mph (1.6 km/h), with / without load (5)		%	33 / 37	31/37	31 / 36	
	<b>J</b> =0	Gradeability - max, with / without load (5)		/0	41 / 37	39 / 37	38 / 36	

Raised cabin may result in reduced capacity since the "carry" height will be higher. Minimum/maximum height of twistlocks With raised cabin position add 39" / 1000 mm (1)

(2)

(3)

(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.

AL	1-1	Manufacturer
GENERAL	1-2	Model designation
GE	1-3	Powertrain / drivetrain
	7-1	Engine manufacturer / model
	7-1a	EPA Tier Compliance
	7-2	Engine power - rated
ш	7-3-1	Engine torque @ rpm (1.min)
ENGINE	7-4	Number of cylinders / displacement
Ξ	7-6	Fuel consumption according to VDI cycle
	7-8	Alternator output
	7-9	Electrical system voltage
	7-10	Battery voltage, nominal capacity
	8-0	Drive control / transmission
	8-1	Type of drive unit
Ψ	8-2	Transmission manufacturer / type
DRIVE	8-2-1	Transmission speeds forward / backward
	8-3	Wheel drive / drive axle manufacturer / type
	8-11	Service brake
	8-12	Parking brake
	10-1	Operating pressure for attachments
	10-2	Oil volume for attachments
6	10-3	Hydraulic tank capacity
MISC	10-4	Fuel tank capacity
	10-4-1	DEF/AdBlue Tank capacity
	10-5	Steering design
	10-6	Number of steering rotations
_		
	1-2	Model designation
~	9-1	Spreader manufacturer / type
DEI	9-1-1	Pile slope, mechanical
SPREADER	9-1-2	Pile slope total, powered
ŝ	9-3	Size of containers
	9-4	Sideshift
	9-4-1	Telescoping time, extend / retract

#### 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® truck.

All capacities are according to EN1551.

All specifications and capacities are valid for trucks equipped with a Hyster® container handling spreader for handling ISO containers.

#### 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.

### **POWERTRAINS**

	Hys	ster				
	H8-9XD-EC6-8 / I	H9-11XD-ECD7-9				
	Die	sel				
	Cummins / QSB 6.7	Mercedes OM936 / 7.7				
	Stage IIIA	Stage V				
kW	164@2200	180@1800				
N-m	949@1500 1,000@1200					
# / cm <sup>3</sup>	6 / 6,690	6 / 7,698				
l/h	On request					
Amps	12	20				
V	2	4				
V / Ah	24 /	102				
Туре	Powershift T	ransmission				
Туре	Torque C	Converter				
Туре	ZF 5W	/G211				
#	5/3					
Туре	AxleTech / PRC 1756W3H					
Туре	Oil immersed (wet) disc					
Туре						
MPa	22	5				
l/m	7	2				
I.	289	300				
I	35	50				
I	N/A	38				
Туре	Hydro	static				
#	5.	0				
	H8-9XD-EC6-8	H9-11XD-ECD7-9				
Туре	Elme / 586TB MPS	Elme / 584LD PPS				
mm	+/- 205	+/- 192				
0	-	+/- 6				
ft	ISO 20' & 40'					
mm	+/-					
Sec	10 /	13				

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. enance

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

Specification data is based on VDI 2198.

b8

**UK** Safety: This truck conforms to the current EU, UK CA and ANSI requirements.

### **RATED CAPACITIES AND STACKING HEIGHTS**



### **SINGLE CONTAINER SPREADER**







### **RATED CAPACITIES AND STACKING HEIGHTS**

### **DOUBLE CONTAINER SPREADER**

Double handle container spreader

- Picking container(s) at the front (hooks) and side (clamps) of the corner castings.
- With speed limitation for laden/unladen.
- · With speed limitation for locked/un-locked.
- With first and second container presence sensing.

### **OPTIONAL SPREADERS AND ENGAGEMENT SYSTEMS**



**DOUBLE CONTAINER SPREADER 584 LF** 



 ER SPREADER 584 LF

 Double handle container spreader.

 Picking container(s) at the front (hooks) and side (clamps) of the corner castings

 One or two ISO and Binnen container(s) 20-40ft.

 One 45ft container in 40ft position

 Includes first and second container presence sensing (indicating laden or unladen status for bottom and top container separately)

 Includes fill-out pin and sensor to supplement hook, in order to ensure container

 Speed limiter 20km/h if one or two 20-40ft containers handling (laden)

 With 10km/h or 6mp/h speed limit if side hooks are open (un-locked)

Speed limit 20 km/h with 45 ft container with fill-out pin

Note: All double handler spreaders are equipped with powered pile slope (PPS)

PERFORMANCE	STD	OPT
Cummins QSB 6.7L diesel engine rated 220 hp Tier 3 / 164 kW Stage IIIA	Stage IIIA	
Mercedes OM936 7.7L Stage V Diesel Engine 180 kW @ 2200 rpm	Stage V	
Hibernate Idle	X	
Hydraulically driven on-demand cooling fan 120 amp alternator	X	
Powertrain protection system	Х	
Drive axle with Oil immersed brakes	Х	
ZF Transmission 5WG211 5-speeds fwd/3-speeds reverse auto-shifting	X	
AxleTech Drive Axle PRC1756 W3H with wet disc brakes	Х	ODT
DRIVE	STD	OPT
Travel Speed Limiter pre-set to 12 mph / 20 km/h Conditional Travel Speed Limiter on un-locked, pre-set to 10 km/h	X	
14.00 x 24-24 Pneumatic Steer and Drive	~	х
14.00 x 24 Michelin XZM Radial Steer and Drive		Х
14.00 x 24 Trelleborg Radial Steer and Drive		Х
14.00 x 24 Pneumatic Shaped Solids Steer and Drive 14.00 R24 Bridgestone VCHS Tubeless Radial Steer and Drive		X
14.00 R24 Michelin XZM Tubeless Radial Steer and Drive		X
14.00 x 24-24 Pneumatic Bias Steer and Drive	х	
Steer Axle with Wheel Nut Protection		Х
Spare wheels and tyres		Х
LIFT	STD	OPT
On-Demand Load Sensing Hydraulic System	X X	
Automatic Throttle-up when lifting (in neutral or inching) Variable lap mast for low roller forces	X	
2 cylinder / 2 chain design	X	
2 Stage Non Free Lift mast	Х	
Mast tilt - 4° Forward / 3° Back	Х	
Mast Tilt Indicator - Mechanical	Х	Х
Hydraulic Accumulator Height sensor	^	Х
Pressure compensated lowering	Х	~
Hydraulic system temperature protection with performance de-rate		Х
HANDLING	STD	OPT
"Single handling Side lift Spreader 586TB Telescopic 20-40ft with with vertical		х
Twistlocks and removable spacer block for wide container" "Single handling Side lift Spreader 588TB Telescopic 20-40ft with with vertical		
Twistlocks for standard wide container"	EC	
"Single handling Side lift Spreader 589TB Telescopic 20-40ft with with vertical and		х
moveable +/- 76 mm Twistlocks for wide container" "Double handling Side lift Spreader 584LD Telescopic 20-40ft with Hook and Side		
Clamps with one Container detection"	ECD	
"Double handling Side lift Spreader 584LF Telescopic 20-40ft with Hook and Side		х
Clamps and 2 Container detection and locking pin" "Double handling Side lift Spreader 582LA Telescopic 20-40ft with double horizontal		
Twistlocks and Powered Pile Slope"		Х
Automated One-touch Spreader Extend/Retract (20'-40')		Х
Mechanical Pile Slope	X ECD	EC
Powered Pile Slope ERGONOMICS	STD	OPT
Enclosed Operator Cabin with Heating	X	UP1
Enclosed Operator Cabin with Automatic Climate Control	~	Х
Standard Cab Position	Х	
Standard Cab Position with automatic tip-up		Х
Raised Cab Position		X
Raised Cab Position with automatic tip-up Operator presence system	Х	~
Mechanical suspension cloth seat	X	
Mechanical suspension vinyl seat		Х
Air suspension cloth seat		Х
Air suspension vinyl seat Deluxe air suspension vinyl seat with head rest		X
Deluxe air suspension cloth seat with head rest		X
Deluxe air suspension cloth seat with heating and ventilation		X
Low backrest seat	Х	
High and adjustable seat backrest	X	Х
Armrest on left side 2-point high visibility seatbelt	X	
Lateral seat sliding mechanism	Λ	х
Interior dome light		Х
"I" - Pattern front wiper on front window screen	Х	
"H" - Pattern front wiper on front window screen	х	Х
7" Integrated Performance Display Dual 7" Integrated Performance Displays	^	Х
Joystick hydraulic control integrated in Control Arm	Х	
Steering wheel with spinner knob	Х	
Directional control lever on steering column		Х
Directional control on joystick Manual park brake	X	
Park brake - automatically applied	^	Х
24-12 volt DC converter with 1 socket and 2 USB outlets	Х	

### STANDARD AND OPTIONAL EQUIPMENT

ERGONOMICS continued	STD	OPT
24-12 volt DC converter with 2 sockets and 2 USB outlets		Х
Reading light	N.	Х
Sun shades on top and rear* Sun visors front window	Х	х
Cloth trainer seat with 2-point Hi-Vis seatbelt		X
Recirculation fan		X
Accessory Mounting Bar on A-Pillar		Х
Document Holder		Х
Heated rear window		Х
Heated top and rear window		X X
Heated top window Top Window with Armoured Glass (FOPS Certified)	Х	^
Top Window with Armoured Glass (FOPS Certified) and additional steel bars	A	х
Additional recirculation fan		Х
Radio Preparation with 2 Speakers and Antenna		Х
Bluetooth Radio With 2 Speakers And Antenna		Х
VISIBILITY	STD	OPT
External wide angle mirrors mounted to front fenders	Х	
Exterior wide angle mirrors	X	
Interior wide angle mirrors Exterior mirrors mounted to cab	Х	Х
Rear view camera system		X
Radar object detection system		X
LED work lights	Х	
Lights: 4 Halogen Drive Lights, Position and Direction Lights on Front Fender / 4 Halogen work lights cab mounted Front / 2 Halogen cab mounted Rear / Rearward cluster with stop, tail, indicator and reverse lights inclusive hazard function	х	
Lights: 4 LED Drive Lights, Position and Direction Lights on Front Fender / 4 LED work lights cab mounted Front / 2 LED cab mounted Rear / Rearward cluster with stop, tail, indicator and reverse lights inclusive hazard function		х
Lights: 4 LED Drive Lights, Position and Direction Lights on Front Fender / 4 HP LED work lights cab mounted Front / 2 HP LED cab mounted Rear / Rearward cluster with stop, tail, indicator and reverse lights inclusive hazard function		х
LED twistlock indicator lights	Х	
LED stop/tail/brake lights	Х	
Turn signals, hazard & marker lights (LED)**	Х	
2 Additional LED spreader work lights pointed towards corner castings		Х
OPERATION	STD	OPT
Air horn 112 dBA	Х	OPT
Air horn 112 dBA Audible Alarm - Reverse direction activated 82-102dB(A), self adjusting	X X	OPT
Air horn 112 dBA	Х	OPT X
Air horn 112 dBA Audible Alarm - Reverse direction activated 82-102dB(A), self adjusting Visible alarm – Amber strobe light, ignition activated	X X	
Air horn 112 dBA Audible Alarm - Reverse direction activated 82-102dB(A), self adjusting Visible alarm – Amber strobe light, ignition activated Tyre pressure monitoring system Air conditioning shut-off with open door Lockable battery disconnect switch	X X	X X
Air horn 112 dBA Audible Alarm - Reverse direction activated 82-102dB(A), self adjusting Visible alarm – Amber strobe light, ignition activated Tyre pressure monitoring system Air conditioning shut-off with open door Lockable battery disconnect switch Battery jump start connector (NATO plug)	X X X	X
Air horn 112 dBA Audible Alarm - Reverse direction activated 82-102dB(A), self adjusting Visible alarm – Amber strobe light, ignition activated Tyre pressure monitoring system Air conditioning shut-off with open door Lockable battery disconnect switch Battery jump start connector (NATO plug) Truck start - Key switch with Button - Without Seatbelt Interlock	X X X	X X X
Air horn 112 dBA Audible Alarm - Reverse direction activated 82-102dB(A), self adjusting Visible alarm – Amber strobe light, ignition activated Tyre pressure monitoring system Air conditioning shut-off with open door Lockable battery disconnect switch Battery jump start connector (NATO plug) Truck start - Key switch with Button - Without Seatbelt Interlock Truck start - Key switch with Button - With Seatbelt Interlock - non-sequenced	X X X	X X X
Air horn 112 dBA Audible Alarm - Reverse direction activated 82-102dB(A), self adjusting Visible alarm – Amber strobe light, ignition activated Tyre pressure monitoring system Air conditioning shut-off with open door Lockable battery disconnect switch Battery jump start connector (NATO plug) Truck start - Key switch with Button - Without Seatbelt Interlock	X X X	X X X
Air horn 112 dBA Audible Alarm - Reverse direction activated 82-102dB(A), self adjusting Visible alarm - Amber strobe light, ignition activated Tyre pressure monitoring system Air conditioning shut-off with open door Lockable battery disconnect switch Battery jump start connector (NATO plug) Truck start - Key switch with Button - Without Seatbelt Interlock Truck start - Key switch with Button - With Seatbelt Interlock - non-sequenced Truck start - Key switch with Button - With Seatbelt Interlock - sequenced	X X X	X X X X X
Air horn 112 dBA Audible Alarm - Reverse direction activated 82-102dB(A), self adjusting Visible alarm - Amber strobe light, ignition activated Tyre pressure monitoring system Air conditioning shut-off with open door Lockable battery disconnect switch Battery jump start connector (NATO plug) Truck start - Key switch with Button - With Seatbelt Interlock Truck start - Key switch with Button - With Seatbelt Interlock - non-sequenced Truck start - Key switch with Button - With Seatbelt Interlock - non-sequenced Truck start - Key switch with Button - With Seatbelt Interlock - sequenced Operator password (display) for Truck Start Non-lockable fuel cap	X X X	X X X X X X X X X X
Air horn 112 dBA Audible Alarm - Reverse direction activated 82-102dB(A), self adjusting Visible alarm - Amber strobe light, ignition activated Tyre pressure monitoring system Air conditioning shut-off with open door Lockable battery disconnect switch Battery jump start connector (NATO plug) Truck start - Key switch with Button - Without Seatbelt Interlock Truck start - Key switch with Button - With Seatbelt Interlock - non-sequenced Truck start - Key switch with Button - With Seatbelt Interlock - non-sequenced Operator password (display) for Truck Start Non-lockable fuel cap Lockable fuel cap Fuel strainer in fuel filler neck	x x x x x	X X X X X X X X X
Air horn 112 dBA Audible Alarm - Reverse direction activated 82-102dB(A), self adjusting Visible alarm - Amber strobe light, ignition activated Tyre pressure monitoring system Air conditioning shut-off with open door Lockable battery disconnect switch Battery jump start connector (NATO plug) Truck start - Key switch with Button - Without Seatbelt Interlock Truck start - Key switch with Button - With Seatbelt Interlock - non-sequenced Truck start - Key switch with Button - With Seatbelt Interlock - sequenced Operator password (display) for Truck Start Non-lockable fuel cap Lockable fuel cap Fuel strainer in fuel filler neck Hyster Tracker wireless asset management system	X X X	X X X X X X X X X X X
Air horn 112 dBA Audible Alarm - Reverse direction activated 82-102dB(A), self adjusting Visible alarm - Amber strobe light, ignition activated Tyre pressure monitoring system Air conditioning shut-off with open door Lockable battery disconnect switch Battery jump start connector (NATO plug) Truck start - Key switch with Button - Without Seatbelt Interlock Truck start - Key switch with Button - With Seatbelt Interlock - non-sequenced Truck start - Key switch with Button - With Seatbelt Interlock - non-sequenced Operator password (display) for Truck Start Non-lockable fuel cap Lockable fuel cap Fuel strainer in fuel filler neck Hyster Tracker wireless asset management system Hyster Tracker wireless asset management - Access / Verification	x x x x x	X X X X X X X X X X X
Air horn 112 dBA Audible Alarm - Reverse direction activated 82-102dB(A), self adjusting Visible alarm - Amber strobe light, ignition activated Tyre pressure monitoring system Air conditioning shut-off with open door Lockable battery disconnect switch Battery jump start connector (NATO plug) Truck start - Key switch with Button - Without Seatbelt Interlock Truck start - Key switch with Button - Without Seatbelt Interlock - non-sequenced Truck start - Key switch with Button - With Seatbelt Interlock - non-sequenced Truck start - Key switch with Button - With Seatbelt Interlock - sequenced Operator password (display) for Truck Start Non-lockable fuel cap Lockable fuel cap Fuel strainer in fuel filler neck Hyster Tracker wireless asset management - Access / Verification Hyster Tracker wireless asset management - Monitoring	x x x x x	X X X X X X X X X X X
Air horn 112 dBA Audible Alarm - Reverse direction activated 82-102dB(A), self adjusting Visible alarm - Amber strobe light, ignition activated Tyre pressure monitoring system Air conditioning shut-off with open door Lockable battery disconnect switch Battery jump start connector (NATO plug) Truck start - Key switch with Button - Without Seatbelt Interlock Truck start - Key switch with Button - With Seatbelt Interlock - non-sequenced Truck start - Key switch with Button - With Seatbelt Interlock - non-sequenced Operator password (display) for Truck Start Non-lockable fuel cap Fuel strainer in fuel filler neck Hyster Tracker wireless asset management system Hyster Tracker wireless asset management - Access / Verification Hyster Tracker wireless asset management - Monitoring Auto greasing system for base truck, outer mast with centralized greasing system for inner mast	x x x x x	X X X X X X X X X X X X X X X
Air horn 112 dBA Audible Alarm - Reverse direction activated 82-102dB(A), self adjusting Visible alarm - Amber strobe light, ignition activated Tyre pressure monitoring system Air conditioning shut-off with open door Lockable battery disconnect switch Battery jump start connector (NATO plug) Truck start - Key switch with Button - Without Seatbelt Interlock Truck start - Key switch with Button - With Seatbelt Interlock - non-sequenced Truck start - Key switch with Button - With Seatbelt Interlock - non-sequenced Truck start - Key switch with Button - With Seatbelt Interlock - sequenced Operator password (display) for Truck Start Non-lockable fuel cap Lockable fuel cap Fuel strainer in fuel filler neck Hyster Tracker wireless asset management system Hyster Tracker wireless asset management - Access / Verification Hyster Tracker wireless asset management - Monitoring Auto greasing system for base truck, outer mast with centralized greasing system for inner mast Centralized greasing provision for upper chain sheaves	x x x x x	X X X X X X X X X X X X X X X X X
Air horn 112 dBA Audible Alarm - Reverse direction activated 82-102dB(A), self adjusting Visible alarm - Amber strobe light, ignition activated Tyre pressure monitoring system Air conditioning shut-off with open door Lockable battery disconnect switch Battery jump start connector (NATO plug) Truck start - Key switch with Button - Without Seatbelt Interlock Truck start - Key switch with Button - With Seatbelt Interlock - non-sequenced Truck start - Key switch with Button - With Seatbelt Interlock - non-sequenced Operator password (display) for Truck Start Non-lockable fuel cap Lockable fuel cap Fuel strainer in fuel filler neck Hyster Tracker wireless asset management system Hyster Tracker wireless asset management - Access / Verification Hyster Tracker wireless asset management - Monitoring Auto greasing system for base truck, outer mast with centralized greasing system for inner mast Centralized greasing provision for upper chain sheaves Centralized greasing system for top end mast	x x x x x	X X X X X X X X X X X X X X X
Air horn 112 dBA Audible Alarm - Reverse direction activated 82-102dB(A), self adjusting Visible alarm - Amber strobe light, ignition activated Tyre pressure monitoring system Air conditioning shut-off with open door Lockable battery disconnect switch Battery jump start connector (NATO plug) Truck start - Key switch with Button - Without Seatbelt Interlock Truck start - Key switch with Button - With Seatbelt Interlock - non-sequenced Truck start - Key switch with Button - With Seatbelt Interlock - non-sequenced Truck start - Key switch with Button - With Seatbelt Interlock - sequenced Operator password (display) for Truck Start Non-lockable fuel cap Lockable fuel cap Fuel strainer in fuel filler neck Hyster Tracker wireless asset management system Hyster Tracker wireless asset management - Access / Verification Hyster Tracker wireless asset management - Monitoring Auto greasing system for base truck, outer mast with centralized greasing system for inner mast Centralized greasing provision for upper chain sheaves	x x x x x	X X X X X X X X X X X X X X X X X X X
Air horn 112 dBA Audible Alarm - Reverse direction activated 82-102dB(A), self adjusting Visible alarm - Amber strobe light, ignition activated Tyre pressure monitoring system Air conditioning shut-off with open door Lockable battery disconnect switch Battery jump start connector (NATO plug) Truck start - Key switch with Button - With Seatbelt Interlock Truck start - Key switch with Button - With Seatbelt Interlock - non-sequenced Truck start - Key switch with Button - With Seatbelt Interlock - non-sequenced Truck start - Key switch with Button - With Seatbelt Interlock - non-sequenced Derator password (display) for Truck Start Non-lockable fuel cap Lockable fuel cap Fuel strainer in fuel filler neck Hyster Tracker wireless asset management - Access / Verification Hyster Tracker wireless asset management - Monitoring Auto greasing system for base truck Auto greasing system for base truck, outer mast with centralized greasing system for inner mast Centralized greasing system for top end mast Fire Suppression System	x x x x x x x	X X X X X X X X X X X X X X X X X X X
Air horn 112 dBA Audible Alarm - Reverse direction activated 82-102dB(A), self adjusting Visible alarm - Amber strobe light, ignition activated Tyre pressure monitoring system Air conditioning shut-off with open door Lockable battery disconnect switch Battery jump start connector (NATO plug) Truck start - Key switch with Button - Without Seatbelt Interlock Truck start - Key switch with Button - With Seatbelt Interlock - non-sequenced Truck start - Key switch with Button - With Seatbelt Interlock - non-sequenced Operator password (display) for Truck Start Non-lockable fuel cap Fuel strainer in fuel filler neck Hyster Tracker wireless asset management - Access / Verification Hyster Tracker wireless asset monagement - Access / Verification Hyster Tracker wireless asset mone base truck, outer mast with centralized greasing system for inner mast Centralized greasing system for top end mast Fire Suppression System 24 volt electrical system Five Leptraced by electric circuit breakers Stacker cone storage box (on the right hand side of the running board)	x x x x x x x	X X X X X X X X X X X X X X X X X X X
Air horn 112 dBA Audible Alarm - Reverse direction activated 82-102dB(A), self adjusting Visible alarm - Amber strobe light, ignition activated Tyre pressure monitoring system Air conditioning shut-off with open door Lockable battery disconnect switch Battery jump start connector (NATO plug) Truck start - Key switch with Button - Without Seatbelt Interlock Truck start - Key switch with Button - With Seatbelt Interlock - non-sequenced Operator password (display) for Truck Start Non-lockable fuel cap Fuel strainer in fuel filler neck Hyster Tracker wireless asset management system Hyster Tracker wireless asset management - Access / Verification Hyster Tracker wireless asset management - Monitoring Auto greasing system for base truck, outer mast with centralized greasing system for inner mast Centralized greasing system for top end mast Fire Suppression System 24 volt electrical system Stacker cone storage box (on the right hand side of the running board) Front and rear mud guards	x x x x x x x x x x x x x x x x x x x	X X X X X X X X X X X X X X X X X X X
Air horn 112 dBA Audible Alarm - Reverse direction activated 82-102dB(A), self adjusting Visible alarm - Amber strobe light, ignition activated Tyre pressure monitoring system Air conditioning shut-off with open door Lockable battery disconnect switch Battery jump start connector (NATO plug) Truck start - Key switch with Button - Without Seatbelt Interlock Truck start - Key switch with Button - With Seatbelt Interlock - non-sequenced Operator password (display) for Truck Start Non-lockable fuel cap Fuel strainer in fuel filler neck Hyster Tracker wireless asset management - Access / Verification Hyster Tracker wireless asset management - Monitoring Auto greasing system for base truck, outer mast with centralized greasing system for inner mast Centralized greasing system for top end mast Fire Suppression System 24 volt electrical system EADS Auto greasing system Stacker cone storage box (on the right hand side of the running board) Front and rear mud guards AUED Face Stacker EADS AUED FACE EADS AU	X X X X X X X X X	X X X X X X X X X X X X X X X X X X X
Air horn 112 dBA Audible Alarm - Reverse direction activated 82-102dB(A), self adjusting Visible alarm - Amber strobe light, ignition activated Tyre pressure monitoring system Air conditioning shut-off with open door Lockable battery disconnect switch Battery jump start connector (NATO plug) Truck start - Key switch with Button - Without Seatbelt Interlock Truck start - Key switch with Button - With Seatbelt Interlock - non-sequenced Truck start - Key switch with Button - With Seatbelt Interlock - non-sequenced Truck start - Key switch with Button - With Seatbelt Interlock - non-sequenced Truck start - Key switch with Button - With Seatbelt Interlock - non-sequenced Truck start - Key switch with Button - With Seatbelt Interlock - sequenced Operator password (display) for Truck Start Non-lockable fuel cap Lockable fuel cap Fuel Strainer in fuel filler neck Hyster Tracker wireless asset management - Access / Verification Hyster Tracker wireless asset management - Monitoring Auto greasing system for base truck, outer mast with centralized greasing system for Inner mast Centralized greasing provision for upper chain sheaves Centralized greasing system Fuses partially replaced by electric circuit breakers Stacker cone storage box (on the right hand side of the running board) Front and rear mud guards AUPEARNCE Hyster Yellow paint base truck	x x x x x x x x x x x x x x x x x x x	X X X X X X X X X X X X X X X X X X X
Air horn 112 dBA Audible Alarm - Reverse direction activated 82-102dB(A), self adjusting Visible alarm - Amber strobe light, ignition activated Tyre pressure monitoring system Air conditioning shut-off with open door Lockable battery disconnect switch Battery jump start connector (NATO plug) Truck start - Key switch with Button - Without Seatbelt Interlock Truck start - Key switch with Button - With Seatbelt Interlock - non-sequenced Truck start - Key switch with Button - With Seatbelt Interlock - non-sequenced Truck start - Key switch with Button - With Seatbelt Interlock - non-sequenced Truck start - Key switch with Button - With Seatbelt Interlock - non-sequenced Truck start - Key switch with Button - With Seatbelt Interlock - non-sequenced Operator password (display) for Truck Start Non-lockable fuel cap Lockable fuel cap Lockable fuel cap Fuel Strainer in fuel filler neck Hyster Tracker wireless asset management - Access / Verification Hyster Tracker wireless asset management - Monitoring Auto greasing system for base truck, outer mast with centralized greasing system for inner mast Centralized greasing system for top end mast Fire Suppression System 24 volt electrical system Fuses partially replaced by electric circuit breakers Stacker cone storage box (on the right hand side of the running board) Front and rear mud guards AUPEARNCE Hyster Yellow paint base truck Special Colour	X X X X X X X STD X	X X X X X X X X X X X X X X X X X X X
Air horn 112 dBA Audible Alarm - Reverse direction activated 82-102dB(A), self adjusting Visible alarm - Amber strobe light, ignition activated Tyre pressure monitoring system Air conditioning shut-off with open door Lockable battery disconnect switch Battery jump start connector (NATO plug) Truck start - Key switch with Button - Without Seatbelt Interlock Truck start - Key switch with Button - With Seatbelt Interlock - non-sequenced Truck start - Key switch with Button - With Seatbelt Interlock - non-sequenced Operator password (display) for Truck Start Non-lockable fuel cap Lockable fuel cap Lockable fuel cap Hyster Tracker wireless asset management system Hyster Tracker wireless asset management - Access / Verification Hyster Tracker wireless asset management - Monitoring Auto greasing system for base truck, outer mast with centralized greasing system Centralized greasing provision for upper chain sheaves Centralized greasing system Fuses partially replaced by electric circuit breakers Stacker cone storage box (on the right hand side of the running board) Front and rear mud guards AUPPEARANCE SupPLEMENTAL	X X X X X X X X STD X STD	X X X X X X X X X X X X X X X X X X X
Air horn 112 dBA Audible Alarm - Reverse direction activated 82-102dB(A), self adjusting Visible alarm - Amber strobe light, ignition activated Tyre pressure monitoring system Air conditioning shut-off with open door Lockable battery disconnect switch Battery jump start connector (NATO plug) Truck start - Key switch with Button - With Seatbelt Interlock Truck start - Key switch with Button - With Seatbelt Interlock - non-sequenced Truck start - Key switch with Button - With Seatbelt Interlock - non-sequenced Operator password (display) for Truck Start Non-lockable fuel cap Lockable fuel cap Fuel strainer in fuel filler neck Hyster Tracker wireless asset management system Hyster Tracker wireless asset management - Access / Verification Hyster Tracker wireless asset management - Monitoring Auto greasing system for base truck Auto greasing system for base truck Centralized greasing provision for upper chain sheaves Centralized greasing system Yuster Circuit breakers Stacker cone storage box (on the right hand side of the running board) Front and rear mud guards APPEARANCE Hyster Yellow paint base truck Special Colour SUPPLEMENTAL Literature package	X X X X X X X STD X	X X X X X X X X X X X X X X X X X X X
Air horn 112 dBA Audible Alarm - Reverse direction activated 82-102dB(A), self adjusting Visible alarm - Amber strobe light, ignition activated Tyre pressure monitoring system Air conditioning shut-off with open door Lockable battery disconnect switch Battery jump start connector (NATO plug) Truck start - Key switch with Button - Without Seatbelt Interlock Truck start - Key switch with Button - With Seatbelt Interlock - non-sequenced Truck start - Key switch with Button - With Seatbelt Interlock - non-sequenced Operator password (display) for Truck Start Non-lockable fuel cap Lockable fuel cap Lockable fuel cap Hyster Tracker wireless asset management - Access / Verification Hyster Tracker wireless asset management - Monitoring Auto greasing system for base truck, outer mast with centralized greasing system Centralized greasing provision for upper chain sheaves Centralized greasing system Fuses partially replaced by electric circuit breakers Stacker cone storage box (on the right hand side of the running board) Front and rear mud guards SupPLEMENTAL	X X X X X X X X STD X STD	X X X X X X X X X X X X X X X X X X X
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Air horn 112 dBA Audible Alarm - Reverse direction activated 82-102dB(A), self adjusting Visible alarm - Amber strobe light, ignition activated Tyre pressure monitoring system Air conditioning shut-off with open door Lockable battery disconnect switch Battery jump start connector (NATO plug) Truck start - Key switch with Button - With Seatbelt Interlock - non-sequenced Truck start - Key switch with Button - With Seatbelt Interlock - non-sequenced Operator password (display) for Truck Start Non-lockable fuel cap Lockable fuel cap Lockable fuel cap Fuel strainer in fuel filler neck Hyster Tracker wireless asset management - Access / Verification Hyster Tracker wireless asset management - Monitoring Auto greasing system for base truck, outer mast with centralized greasing system for inner mast Centralized greasing provision for upper chain sheaves Centralized greasing system Fues partially replaced by electric circuit breakers Stacker cone storage box (on the right hand side of the running board) Front and rear mud guards AUPPEARANCE Hyster Yellow paint base truck Special Colour SUPPLEMENTAL Literature package Operator's manual CE certification***	X X X X X X X X X STD X X X X	X X X X X X X X X X X X X X X X X X X

\* Standard with automatic climate control

\*\* Standard or optional in selected markets or models \*\*\* Standard for Stage V / Optional for Stage IIIA

Other options available through Special Products Engineering Department (SPED). Contact Hyster for details.





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