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# **H28-52XM-16CH**

*28,000 - 52,000 KG @ 1,600MM*

**LADEN CONTAINER  
HANDLERS**



**THE SOLUTION TO YOUR  
APPLICATION NEEDS**

**13 22 54**

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# SPECIFICATIONS

DISTINGUISHING MARKS	1.1	Manufacturer (abbreviation)	
	1.2	Manufacturer's type designation	
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas	
	1.4	Operator type: hand, pedestrian, standing, seated, orderpicker	
	1.5.1	Load capacity at load centre distance C1	Q (kg)
	1.5.2	Load capacity at load centre distance C1'	Q <sub>2</sub> (kg)
	1.6.1	Load centre distance C1	C <sub>1</sub> (mm)
	1.6.2	Load centre distance C1'	C <sub>1</sub> ' (mm)
	1.8	Load distance $\leftrightarrow$	x (mm)
	1.9	Wheelbase	y (mm)
1.10.1	Stacking height at first row (number x container height, in feet)		
1.10.1	Stacking height at first row (number x container height, in feet)		

WEIGHTS	2.1	Service weight $\diamond$	
	2.2	Axle loading, laden front/rear	kg
	2.3	Axle loading, unladen front/rear	kg

TYRES & CHASSIS	3.1	Tyres: L = Pneumatic, V = Solid, SE = Pneumatic Shape Solid	
	3.2	Tyres size, front	
	3.3	Tyres size, rear	
	3.5	Wheels, number front / rear (x = driven wheels)	
	3.6	Tread, front	b <sub>0</sub> (mm)
	3.7	Tread, rear	b <sub>1</sub> (mm)

DIMENSIONS	4.1	Tilt of mast, forward / backward	$\alpha / \beta (^{\circ})$
	4.2	Height, mast lowered $\dagger$	h <sub>1</sub> (mm)
	4.3	Free lift	h <sub>2</sub> (mm)
	4.4.1	Lift height at load centre c1, minimum	h <sub>3,1,1</sub> (mm)
	4.4.2	Lift height at load centre c1, maximum	h <sub>3,1,2</sub> (mm)
	4.5	Height, extended	h <sub>4</sub> (mm)
	4.7.1	Height of closed cabin without / with aircon	h <sub>6</sub> (mm)
	4.7.2	Height of closed cab with strobe light	h <sub>6</sub> (mm)
	4.7.3	Height of closed cab with work lights	h <sub>6</sub> (mm)
	4.7.4	Height of closed cab with aircon and strobe light	h <sub>6</sub> (mm)
	4.8	Seat height relating to SIP $\bullet$	h <sub>7</sub> (mm)
	4.12	Coupling height	h <sub>10</sub> (mm)
	4.17	Overhang	l <sub>1</sub> (mm)
	4.19	Overall length	l <sub>1</sub> (mm)
	4.20	Length to face of spreader	l <sub>2</sub> (mm)
	4.21	Overall width	b <sub>2</sub> (mm)
	4.24	Spreader width, retracted / extended	b <sub>2</sub> (mm)
	4.28	Reach distance	l <sub>3</sub> (mm)
	4.30	Reach lateral from vehicle centre line	b <sub>0</sub> (mm)
	4.31	Ground clearance, laden, below mast	m <sub>1</sub> (mm)
4.32	Ground clearance, centre of wheelbase	m <sub>2</sub> (mm)	
4.34.3.1	Aisle width with 20' container without operating clearance	A <sub>31</sub> (mm)	
4.34.3.2	Aisle width with 20' container with 200 mm operating clearance	A <sub>31</sub> (mm)	
4.34.3.3	Aisle width with 20' container with 10% operating clearance	A <sub>31</sub> (mm)	
4.34.4.1	Aisle width with 40' container without operating clearance	A <sub>31</sub> (mm)	
4.34.4.2	Aisle width with 40' container with 200 mm operating clearance	A <sub>31</sub> (mm)	
4.34.4.3	Aisle width with 40' container with 10% operating clearance	A <sub>31</sub> (mm)	
4.35	Turning radius	W <sub>6</sub> (mm)	
4.36	Internal turning radius $\odot$	b <sub>3</sub> (mm)	

PERFORMANCE DATA	5.1	Travel speed, laden / unladen $\star$	km/h
	5.1.1	Travel speed, laden / unladen, backwards	km/h
	5.2	Lift speed, laden / unladen	km/h
	5.2.1	Lift speed, laden with 70% load	m/s
	5.3	Lowering speed, laden / unladen	m/s
	5.5	Drawbar pull, laden / unladen $\% \ddagger$	m/s
	5.5.1	Drawbar pull, laden / unladen $\diamond$	m/s
	5.7	Gradeability, laden / unladen $\% \ddagger$	kN
	5.7.1	Gradeability, laden / unladen $\diamond \ddagger$	%
	5.9	Acceleration time, laden / unladen	sec
5.10	Service brake		

ADDITIONAL DATA	10.1	Working pressure for attachments	bar
	10.2	Oil volume for attachments	l/min
	10.3	Hydraulic oil tank, capacity	l
	10.4	Fuel tank, capacity	l
	10.4.1	DEF tank, capacity	l
	10.5	Steering design	
	10.6	Number of steering rotation	
	10.7	Sound pressure level at the driver's seat L <sub>PAZ</sub> $\star$	dB (A)
10.7.1	Sound power level during the workcycle L <sub>WAZ</sub>		
10.8	Towing coupling, type DIN		

HYSTER		HYSTER		HYSTER	
H28XM-16CH2		H32XM-16CH3		H40XM-16CH4	
Diesel		Diesel		Diesel	
Seated		Seated		Seated	
26,400		31,000		35,300	
24,120		27,800		31,750	
1,430		1,430		1,400	
1,640		1,640		1,610	
957		957		870	
4,315		4,825		5,900	
2 x 9'6"		3 x 9'6"		4 x 9'6"	
2 x 8'6"		3 x 8'6"		4 x 8'6"	

50,714		50,945		62,860	
71,492	5,582	75,744	5,682	91,920	6,240
31,833	18,881	31,511	19,434	43,235	19,625

L		L		L	
16.00 - 25 32PR		16.00 - 25 32PR		18.00 - 25 40PR	
16.00 - 25 32PR		16.00 - 25 32PR		18.00 - 25 40PR	
x 4	2	x 4	2	x 4	2
2,424		2,424		3,703	
2,338		2,338		3,060	

6°		10°		6°		10°		6°		10°	
5,659		7,174		7,966							
-		-		-							
1,239		1,239		2,280							
7,354		10,384		12,034							
8,716		11,746		13,320							
3,502	3,535	3,502	3,535	4,703	4,758						
3,634		3,634		4,780							
3,693		3,693		4,839							
3,708		3,708		4,780							
2,333		2,333		3,525							
1,031		1,031		-							
1,025		1,010		1,025							
8,749		9,259		10,330							
6,309		6,819		7,710							
3,340		3,340		4,200							
6,100	12,200	6,100	12,200	6,100	12,200						
+/- 210		+/- 210		+/- 210							
+/- 216		+/- 216		+/- 216							
227		227		458							
502		502		335							
9,608		10,243		11,430							
9,808		10,443		11,630							
10,569		11,267		12,575							
13,619		13,745		14,045							
13,819		13,945		14,245							
14,981		15,120		15,450							
6,185		6,848		7,875							
2,589		3,013		2,690							

25.0		25.0		25.0		25.0		20.0		22.0	
25.0		25.0		25.0		25.0		20.0		22.0	
0.27	0.29	0.27	0.29	0.25	0.27						
0.28		0.28		0.25							
0.50	0.50	0.50	0.50	0.50	0.50						
197	202	197	202	275	275						
240	244	239	244	275	275						
27	41	25	42	29	40						
33	41	31	42	30	49						
Oil-immersed disc		Oil-immersed disc		Oil-immersed disc							

225		225		140	
100		100		90	
274		274		625	
364		364		830	
38		38		57	
Hydrostatic		Hydrostatic		Hydrostatic	
6.0		6.0		6.0	
73.3		73.3		74	
106		106		109	
Yes / Pin		Yes / Pin		No	

Specification data is based on VDI 2198

# SPECIFICATIONS

HYSTER		HYSTER		HYSTER		HYSTER		1.1
H44XM-16CH4		H48XM-16CH4		H50XM-16CH5		H52XM-16CH5		1.2
Diesel		Diesel		Diesel		Diesel		1.3
Seated		Seated		Seated		Seated		1.4
39,300		40,000		40,000		40,000		1.5.1
35,400		39,590		36,700		40,000		1.5.2
1,400		1,400		1,509		1,509		1.6.1
1,610		1,610		1,749		1,749		1.6.2
870		870		900		900		1.8
5,900		5,900		5,900		5,900		1.9
4 x 9'6"		4 x 9'6"		5 x 9'6"		5 x 9'6"		1.10.1
4 x 8'6"		4 x 8'6"		5 x 8'6"		5 x 8'6"		1.10.1

DISTINGUISHING MARKS

65,660		67,060		76,340		79,040		2.1
97,510	7,450	98,830	8,230	107,990	8,350	105,980	13,060	2.2
43,310	22,350	43,670	23,390	51,680	24,660	49,670	29,370	2.3

WEIGHTS

L		L		L		L		3.1
18.00 - 25 40PR		18.00 - 25 40PR		18.00 - 25 40PR		18.00 - 33 36PR		3.2
18.00 - 25 40PR		18.00 - 25 40PR		18.00 - 25 40PR		18.00 - 33 36PR		3.3
x 4	2	x 4	2	x 4	2	x 4	2	3.5
3,703		3,703		3,703		3,703		3.6
3,060		3,060		3,060		3,060		3.7

TIRES & CHASSIS

6°		10°		6°		10°		6°		10°		4.1
7,966		7,966		9,451		9,451		9,451		9,451		4.2
-		-		-		-		-		-		4.3
2,280		2,280		2,280		2,280		2,280		2,280		4.4.1
12,034		12,034		14,930		14,930		14,930		14,930		4.4.2
13,320		13,320		17,392		17,392		17,392		17,392		4.5
4,703	4,758	4,703	4,758	4,793	4,848	4,793	4,848	4,793	4,848	4,793	4,848	4.7.1
4,780		4,780		4,872		4,872		4,872		4,872		4.7.2
4,839		4,839		4,931		4,931		4,931		4,931		4.7.3
4,780		4,780		4,872		4,872		4,872		4,872		4.7.4
3,525		3,525		3,615		3,615		3,615		3,615		4.8
-		-		-		-		-		-		4.12
1,025		1,025		1,025		1,093		1,093		1,093		4.17
10,330		10,330		10,485		10,698		10,698		10,698		4.19
7,710		7,710		7,740		7,968		7,968		7,968		4.20
4,200		4,200		4,200		4,200		4,200		4,200		4.21
6,100	12,200	6,100	12,200	6,100	12,200	6,100	12,200	6,100	12,200	6,100	12,200	4.24
+/- 210		+/- 210		+/- 240		+/- 240		+/- 240		+/- 240		4.28
+/- 216		+/- 216		+/- 400		+/- 400		+/- 400		+/- 400		4.30
458		458		452		452		452		452		4.31
335		335		370		370		370		370		4.32
11,430		11,430		11,595		11,715		11,715		11,715		4.34.3.1
11,630		11,630		11,795		11,915		11,915		11,915		4.34.3.2
12,575		12,575		12,755		12,885		12,885		12,885		4.34.3.3
14,045		14,045		14,045		14,045		14,045		14,045		4.34.4.1
14,245		14,245		14,245		14,245		14,245		14,245		4.34.4.2
15,450		15,450		15,450		15,450		15,450		15,450		4.34.4.3
7,875		7,875		7,875		8,020		8,020		8,020		4.35
2,690		2,690		2,690		2,690		2,690		2,690		4.36

DIMENSIONS

20.0	22.0	20.0	22.0	20.0	22.0	21.0	23.0	5.1
20.0	22.0	20.0	22.0	20.0	22.0	21.0	23.0	5.1.1
0.25	0.27	0.25	0.27	0.25	0.27	0.25	0.27	5.2
0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	5.2.1
0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	5.3
275	275	275	275	275	275	248	248	5.5
275	275	275	275	275	275	275	275	5.5.1
26	40	25	38	24	39	24	38	5.7
28	47	28	47	27	41	34	46	5.7.1
☞		☞		☞		☞		5.9
Oil-immersed disc		Oil-immersed disc		Oil-immersed disc		Oil-immersed disc		5.10

PERFORMANCE DATA

140	140	140	140	140	140	10.1
90	90	90	90	90	90	10.2
625	625	625	625	625	625	10.3
830	830	830	830	830	830	10.4
57	57	57	57	57	57	10.4.1
Hydrostatic	Hydrostatic	Hydrostatic	Hydrostatic	Hydrostatic	Hydrostatic	10.5
6.0	6.0	6.0	6.0	6.0	6.0	10.6
74	74	74	74	74	74	10.7
109	109	109	109	109	109	10.7.1
No	No	No	No	No	No	10.8

ADDITIONAL DATA

# POWERTRAINS & SPREADERS

DESIGNATION	
1.1	Manufacturer (abbreviation)
1.2	Manufacturer's type designation
1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas

POWER UNIT		
7.1	Engine manufacturer / type	
7.2	Engine output according to ISO 1585	kW / min-1
7.2.1	Max. engine power according to ISO 1585	kW / min-1
7.3	Rated speed	min-1
7.3.1	Torque at 1/min	Nm / min-1
7.4	Number of cylinders / displacement	(-)/cm <sup>3</sup>
7.5	Fuel consumption according to VDI cycle	l/h
7.8	Alternator	A
7.10	Battery voltage/nominal capacity	(V)/(Ah)

DRIVE TRAIN	
8.1	Type of drive unit
8.2	Transmission manufacturer / type
8.6	Wheel drive / drive axle manufacturer / type
8.11	Service brake
8.12	Parking brake

SPREADER		
9.1	Manufacturer / type	
9.2	Design	
9.3	Size of containers	feet (')
9.4	Side shift	b <sub>s</sub> (mm)
9.5	Pile slope spreader	° / type
9.6	Rotation angle	°
9.7	Longitudinal adjustment	mm
9.8	Telescoping time, extend / retract	s

DESIGNATION	
1.1	Manufacturer (abbreviation)
1.2	Manufacturer's type designation
1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas

COMBUSTION-ENGINE		
7.1	Engine manufacturer / type	
7.2	Engine output according to ISO 1585	kW / min-1
7.2.1	Max. engine power according to ISO 1585	kW / min-1
7.3	Rated speed	min-1
7.3.1	Torque at 1/min	Nm / min-1
7.4	Number of cylinders / displacement	(-)/cm <sup>3</sup>
7.5	Fuel consumption according to VDI cycle	l/h
7.8	Alternator	A
7.10	Battery voltage/nominal capacity	(V)/(Ah)

DRIVE/LIFT MECHANISM	
8.1	Type of drive unit
8.2	Transmission manufacturer / type
8.6	Wheel drive / drive axle manufacturer / type
8.11	Service brake
8.12	Parking brake

SPREADER		
9.1	Manufacturer / type	
9.2	Design	
9.3	Size of containers	feet (')
9.4	Side shift	b <sub>s</sub> (mm)
9.5	Pile slope spreader	° / type
9.6	Rotation angle	°
9.7	Longitudinal adjustment	mm
9.8	Telescoping time, extend / retract	s

HYSTER		HYSTER	
H28-32XM-16CH		H40-48XM-16CH	
Diesel		Diesel	

Cummins	QSB 6.7	Cummins	QSL 9
194	2,200	261	2,100
201	2,000	283	1,900
2,200		2,100	
990	1,500	1,627	1,500
6	6,690	6	8,900
☎		☎	
120		120	
24	102	24	102

Torque Converter		Torque Converter	
ZF	5WG211	Spicer Off-Highway	TE-32
Axle Tech	PRC3806W4H	Kessler	D102PL341/528-NLB
Oil immersed disc		Oil immersed disc	
Dry disc on drive axle		Dry disc on drive axle	

ELME	812	ELME	813
Top lift spreader		Top lift spreader	
ISO 20' - 40'		ISO 20' - 40'	
+/- 216		+/- 216	
+/- 2.5 / mechanical		+/- 2.5 / mechanical	
+/- 4.5		+/- 4.5	
+/- 210		+/- 210	
12	12	12	12

HYSTER		HYSTER	
H50XM-16CH		H52XM-16CH	
Diesel		Diesel	

Cummins	QSL 9	Cummins	QSL 9
261	2,100	261	2,100
283	1,900	283	1,900
2,100		2,100	
1,627	1,500	1,627	1,500
6	8,900	6	8,900
☎		☎	
120		120	
24	102	24	102

Torque Converter		Torque Converter	
Spicer Off-Highway	TE-32	Spicer Off-Highway	TE-32
Kessler	D102PL341/528-NLB	Kessler	D102PL341/528-NLB
Oil immersed disc		Oil immersed disc	
Dry disc on drive axle		Dry disc on drive axle	

ELME 818 for Gantry	ELME 818 for Gantry
Top lift spreader	
ISO 20' - 40'	
+/- 400	
+/- 6.0 / powered	
+/- 3.0	
+/- 240	
12	12

# MAST & CAPACITY INFORMATION

Mast	Stacking height	Lift height $h_3$	Min. under twistlock $h_{3,1.1}$	Max. under twistlock $h_{3,1.2}$	Lowered height $h_1$	Extended height $h_4$	Side shift $b_8$	Tilt fwd/bwd	Overall width $b_2$	H28XM-16CH	
										Capacity spreader retracted	Capacity spreader extended
										$c_1$ @ 1.430 mm	$c_1$ @ 1.640 mm
	8'6" - 9'6"	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(°)	(mm)	(kg)	
2 stage NFL	2 high 8'6"	6,115	1,239	7,354	5,659	8,716	+/- 216	6/10	3,340	26,400	24,120
	2 high 9'6"	6,115	1,239	7,354	5,659	8,716	+/- 216	6/10	3,340	26,400	24,120
	3 high 9'6"	9,145	1,239	10,384	7,174	11,746	+/- 216	6/10	3,340	26,300	23,680
	4 high 8'6"	9,755	1,239	10,994	7,479	12,356	+/- 216	6/10	3,340	25,740	23,380

Mast	Stacking height	Lift height $h_3$	Min. under twistlock $h_{3,1.1}$	Max. under twistlock $h_{3,1.2}$	Lowered height $h_1$	Extended height $h_4$	Side shift $b_8$	Tilt fwd/bwd	Truck width $b_2$	H32XM-16CH	
										Capacity spreader retracted	Capacity spreader extended
										$c_1$ @ 1.430 mm	$c_1$ @ 1.640 mm
	8'6" - 9'6"	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(°)	(mm)	(kg)	
2 stage NFL	2 high 8'6"	6,115	1,239	7,354	5,659	8,716	+/- 216	6/10	3,340	31,000	28,200
	2 high 9'6"	6,115	1,239	7,354	5,659	8,716	+/- 216	6/10	3,340	31,000	28,200
	3 high 9'6"	9,145	1,239	10,384	7,174	11,746	+/- 216	6/10	3,340	31,000	27,800
	4 high 8'6"	9,755	1,239	10,994	7,479	12,356	+/- 216	6/10	3,340	30,640	27,720

Mast	Stacking height	Lift height $h_3$	Min. under twistlock $h_{3,1.1}$	Max. under twistlock $h_{3,1.2}$	Lowered height $h_1$	Extended height $h_4$	Side shift $b_8$	Tilt fwd/bwd	Truck width $b_2$	H40XM-16CH4	
										Capacity spreader retracted	Capacity spreader extended
										$c_1$ @ 1.400 mm	$c_1$ @ 1.610 mm
	8'6" - 9'6"	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(°)	(mm)	(kg)	
2 stage NFL	3 high	7,010	2,280	9,290	6,594	10,576	+/- 216	6/10	4,200	37,100	33,400
	4 high	9,754	2,280	12,034	7,966	13,320	+/- 216	6/10	4,200	35,300	31,750
	5 high	12,650	2,280	14,930	9,451	17,392	+/- 216	6/10	4,200	N / A	N / A

Mast	Stacking height	Lift height $h_3$	Min. under twistlock $h_{3,1.1}$	Max. under twistlock $h_{3,1.2}$	Lowered height $h_1$	Extended height $h_4$	Side shift $b_8$	Tilt fwd/bwd	Truck width $b_2$	H44XM-16CH	
										Capacity spreader retracted	Capacity spreader extended
										$c_1$ @ 1.400 mm	$c_1$ @ 1.610 mm
	8'6" - 9'6"	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(°)	(mm)	(kg)	
2 stage NFL	3 high	7,010	2,280	9,290	6,594	10,576	+/- 216	6/10	4,200	39,900	35,950
	4 high	9,754	2,280	12,034	7,966	13,320	+/- 216	6/10	4,200	39,300	35,400
	5 high	12,650	2,280	14,930	9,451	17,392	+/- 216	6/10	4,200	N / A	N / A

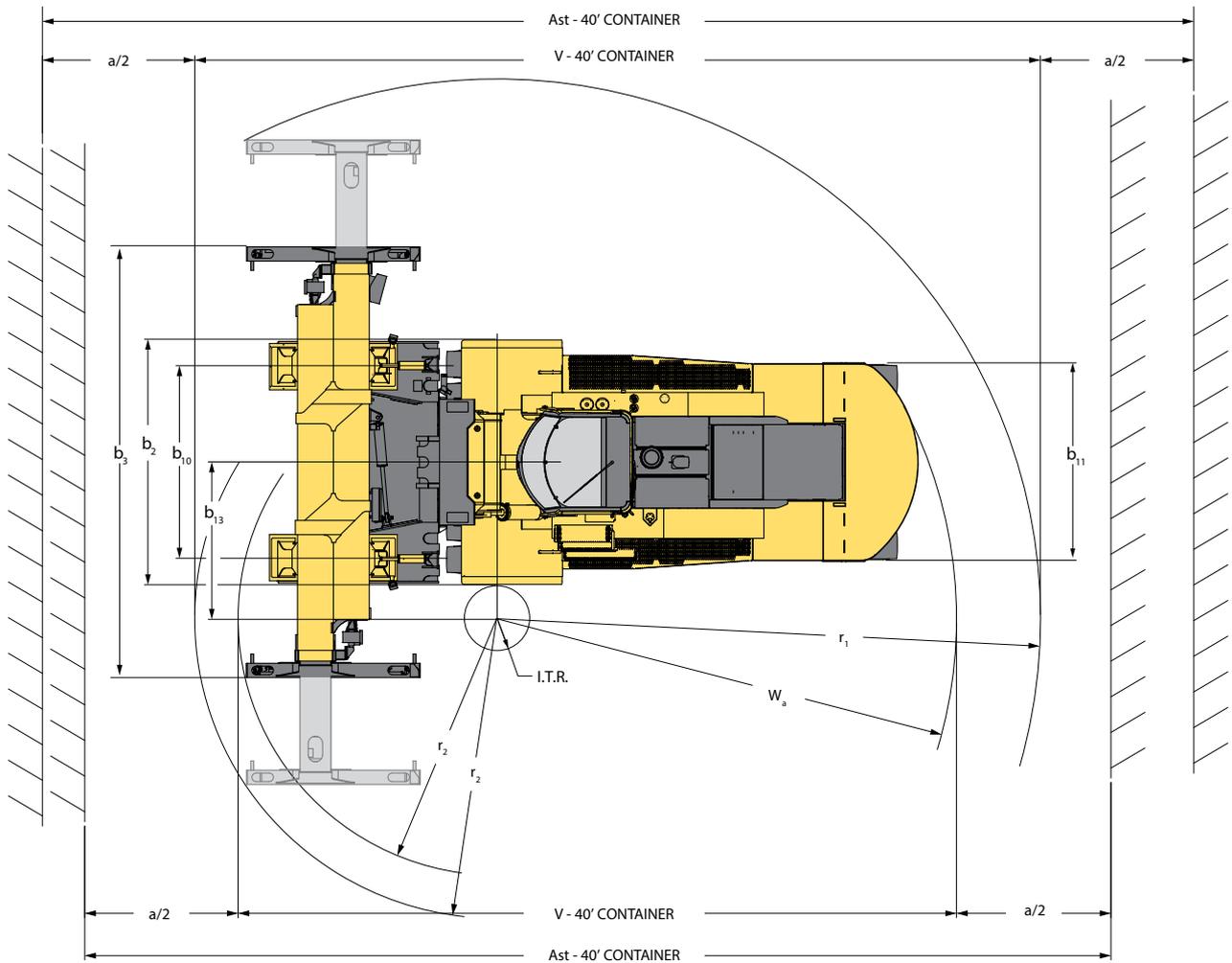
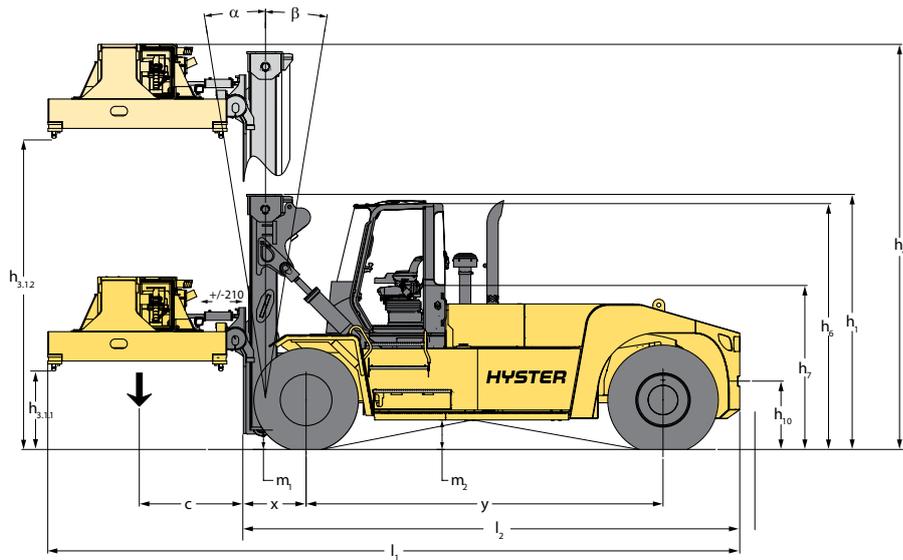
Mast	Stacking height	Lift height $h_3$	Min. under twistlock $h_{3,1.1}$	Max. under twistlock $h_{3,1.2}$	Lowered height $h_1$	Extended height $h_4$	Side shift $b_8$	Tilt fwd/bwd	Truck width $b_2$	H48XM-16CH	
										Capacity spreader retracted	Capacity spreader extended
										$c_1$ @ 1.400 mm	$c_1$ @ 1.610 mm
	8'6" - 9'6"	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(°)	(mm)	(kg)	
2 stage NFL	3 high	7,010	2,280	9,290	6,594	10,576	+/- 216	6/10	4,200	40,000	40,000
	4 high	9,754	2,280	12,034	7,966	13,320	+/- 216	6/10	4,200	40,000	39,590
	5 high	12,650	2,280	14,930	9,451	17,392	+/- 216	6/10	4,200	N / A	N / A

Mast	Stacking height	Lift height $h_3$	Min. under twistlock $h_{3,1.1}$	Max. under twistlock $h_{3,1.2}$	Lowered height $h_{1,1}$	Extended height $h_{4,1}$	Side shift $b_8$	Tilt fwd/bwd	Truck width $b_2$	H50XM-16CH (gantry)	
										Capacity spreader retracted	Capacity spreader extended
										$c_1$ @ 1.510 mm	$c_1$ @ 1.749 mm
	8'6" - 9'6"	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(°)	(mm)	(kg)	
2 stage NFL	3 high	7,010	2,280	9,290	6,631	11,752	+/- 400	6/10	4,200	40,000	40,000
	4 high	9,754	2,280	12,034	8,003	14,496	+/- 400	6/10	4,200	40,000	40,000
	5 high	12,650	2,280	14,930	9,451	17,392	+/- 400	6/10	4,200	40,000	36,700

Mast	Stacking height	Lift height $h_3$	Min. under twistlock $h_{3,1.1}$	Max. under twistlock $h_{3,1.2}$	Lowered height $h_{1,1}$	Extended height $h_{4,1}$	Side shift $b_8$	Tilt fwd/bwd	Truck width $b_1$	H52XM-16CH (gantry)	
										Capacity spreader retracted	Capacity spreader extended
										$c_1$ @ 1.509 mm	$c_1$ @ 1.749 mm
	8'6" - 9'6"	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(°)	(mm)	(kg)	
2 stage NFL	3 high	7,010	2,280	9,290	6,631	11,752	+/- 400	6/10	4,200	40,000	40,000
	4 high	9,754	2,280	12,034	8,003	14,496	+/- 400	6/10	4,200	40,000	40,000
	5 high	12,650	2,280	14,930	9,451	17,392	+/- 400	6/10	4,200	40,000	40,000

\*\* based on 18.00 - 33 tyre w/o load; radius 880 mm

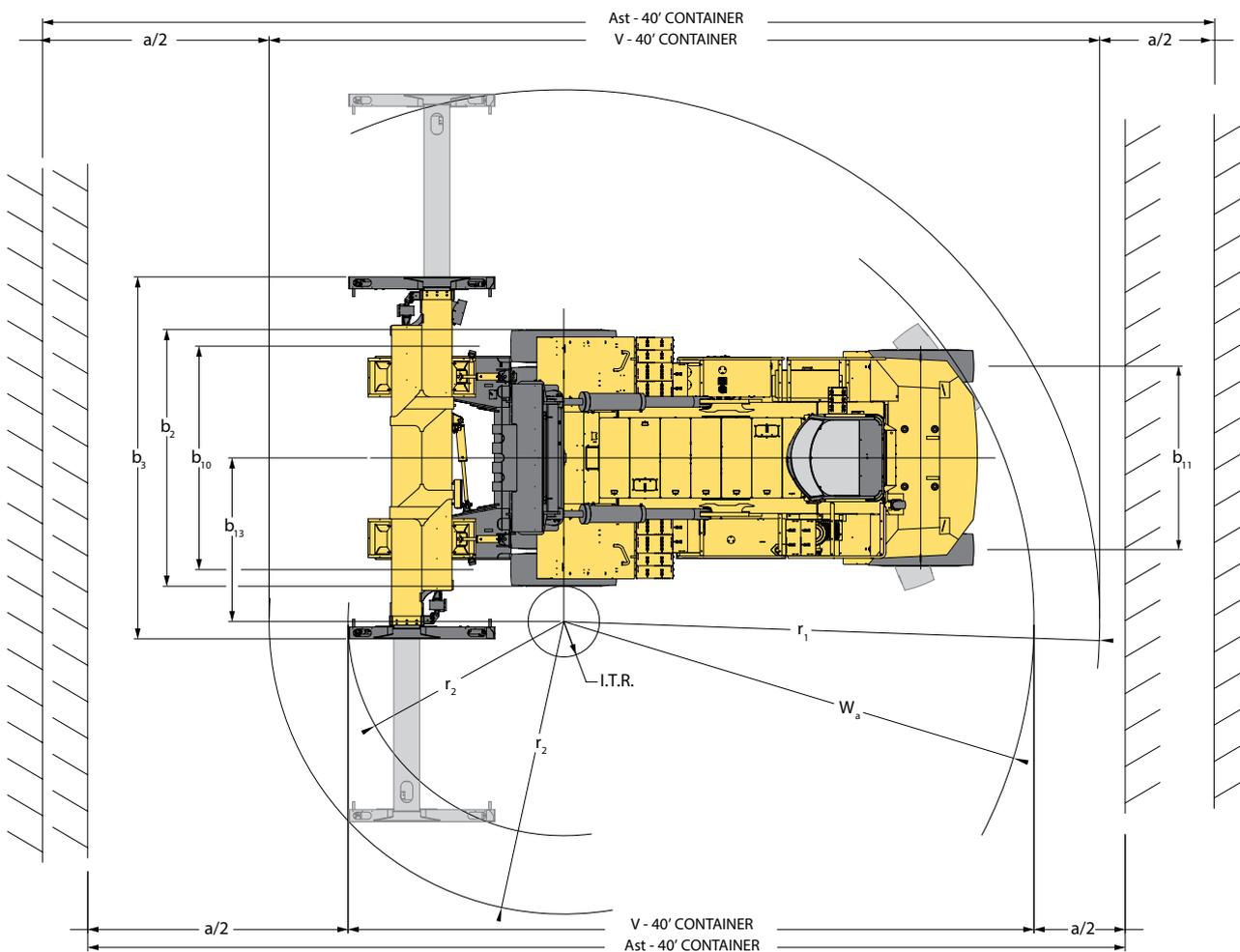
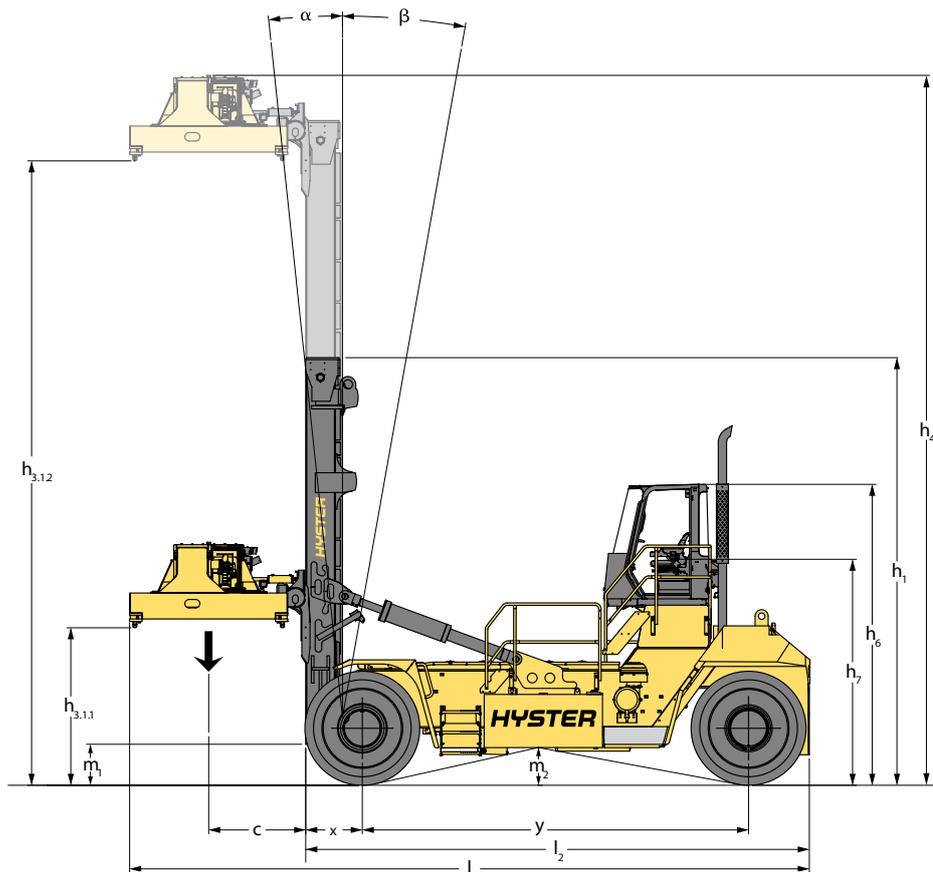
# DIMENSIONS - H28-32XM-16CH



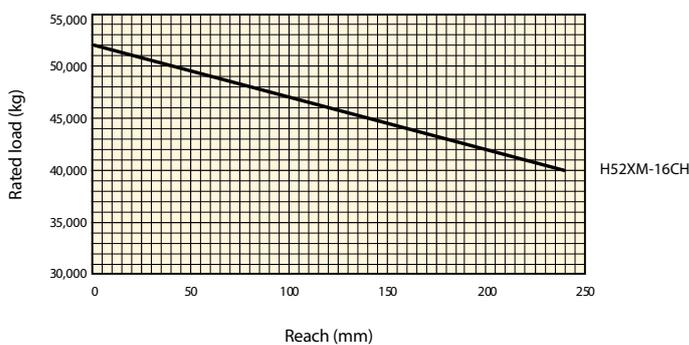
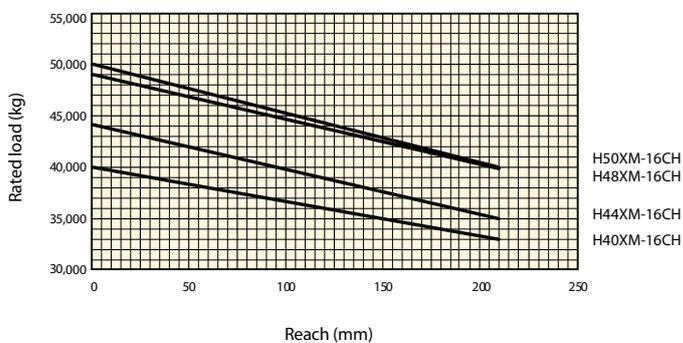
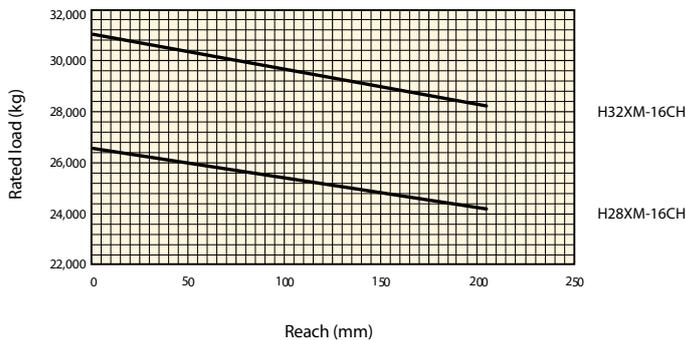
- $A_{ST} = W_a + x + l_6 + a$  (if  $b_{12}/2 < b_{13}$ )
- $A_{ST} = W_a + (l_6 - x)^2 + (b_{12} - b_{13})^2 + a$  (if  $b_{12}/2 > b_{13}$ )
- $a$  = Minimum operating clearance = 10% of  $A_{ST}$   
(VDI standard = 200 mm BITA recommendation = 300 mm)
- $l_6$  = load length
- $b_{12}$  = load width

- $r_1$  = radius of swing of container rear corner
- $r_2$  = radius of swing of container front corner
- $W_a$  = outside turning radius of truck
- $a$  = total operating clearance,  $a/2$  is operating clearance at each side.
- $a = 10\%$  of  $V$
- $V$  = (theoretical) 90 stacking aisle width, no intrusive stacking and width clearance
- $A_{ST} = V + a$
- $A_{ST} = V + 10\%$  of  $V$

# DIMENSIONS - H40-32XM-16CH



# RATED CAPACITIES



## Load centre

Distance from front of spreader to centre of gravity of load.

## Rated load

Based on 2 stage NFL mast 6115 mm lift height for container handling, dedicated carriage for container handling and 20-40' extendable container attachment

## NOTE:

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.

- ↔ Centre of drive axle to front face of spreader
- ◇ Weights are based on the following specifications: Complete truck with cab, pneumatic tyres, mast as specified, carriage as specified and 20' – 40' spreader.
- + Unladen with new tyres
- l Spreader, distance from ground to twistlocks.
- Full suspension seat in depressed position
- ⊙ Distance centre truck to centre of internal turning radius
- \* Travel speed laden/unladen limited at 25 km/h as factory default
- ⌘ at 1.6 km/h.
- ◇ at stall.
- † Gradeability figures are provided for comparison of tractive performance, but are not intended to endorse the operation of vehicle on the stated inclines. Follow instructions in the operating manual regarding operation on inclines.
- \* Measured according to the test cycles and based on the weighting values contained in EN12053.
- 📄 Data available on request, as values are dependent on application.

## MAST AND CAPACITY:

\*\* Based on 18.00 - 33 tyre w/o load; radius 880 mm

## NOTICE:

Care must be exercised when handling elevated loads. When the carriage and/or load is elevated, truck stability is reduced. It is important that the mast tilt in either direction is kept to a minimum when loads are elevated.

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.

CE Safety:

This truck conforms to the current EU requirements.

# FRONT END EQUIPMENT



Range of 2 stage NFL masts



Dedicated carriage for top pick 20'-40' telescopic spreader 812



ELME 812 Top lift spreader for Dedicated CH carriage



Dedicated carriage for top pick 20'-40' telescopic spreader 813



Dedicated carriage for top pick 20'-40' telescopic spreader 813 with 116 mm extra reach



ELME 813 Top lift spreader for Dedicated CH carriage



Gantry carriage 750 for top pick 20'-40' telescopic spreader 818 with Mechanical Pile Slope



Gantry carriage 750 for top pick 20'-40' telescopic spreader 818 with hydraulically Powered Pile Slope



ELME 818 Top lift spreader for Gantry carriage 750

# H28-52XM-16CH

28,000 - 52,000 KG @ 1,600MM

LADEN CONTAINER  
HANDLERS

## STANDARD EQUIPMENT

### H28-32XM-16CH

- ✓ Cummins QSB 6.7L 194 / max 201 KW @ 2.200 rpm Turbo Diesel Engine
  - Stage IIIA Compliant
  - ECO-eLo / HiP performance modes
  - Hibernate Idle
- ✓ ZF WG 211 5 speed forward / 3 speed reverse Hydrodynamic Transmission

### H40-52XM-16CH

- ✓ Cummins QSM11 224/ max 224 KW @ 2.100 rpm Turbo Diesel Engine
  - Stage IIIA Compliant
  - ECO-eLo / HiP performance modes
  - Hibernate Idle
- ✓ DANA Spicer off-Highway TE32 4 speed auto-shifting transmission with APC200 shift controller

### H28-52XM-16CH

- ✓ 2-Stage NFL 2-high Mast with maximum lift height of 9250 mm (H28-32XM-16CH)
- ✓ 2-Stage NFL 3-high Mast with maximum lift height of 7010 mm (H40-52XM-16CH)
- ✓ Dedicated carriage for Container handling for 1220-1430mm load centre (H28-32XM-16CH)
- ✓ Dedicated carriage for container handling for 1400-1610 mm load centre (H40-48XM-16CH)
- ✓ Dedicated carriage for Container handling for 1510-1720 mm load centre (H50XM-16CH)
- ✓ ELME 812 ISO Top Lift Spreader (H28-32XM-16CH)
- ✓ ELME 813 ISO Top Lift Spreader (H40-50XM-16CH)
- ✓ Wet disc brakes
- ✓ Sy-Kline spinner type heavy duty air intake pre-cleaner
- ✓ Axle Tech PRC 3806 heavy duty planetary drive axles (H28-32XM-16CH)
- ✓ Kessler D102 PL 341/528 NLB planetary drive axle with wet disc brakes (H40-52XM-16CH)
- ✓ Steer axle with hydrostatic power steering
- ✓ SAUER-DANFOSS dual piston variable displacement pump 140ccm (70 + 70 ccm)

- ✓ Powertrain protection system for engine and transmission; high temperature or low oil pressure
- ✓ On-demand load-sensing hydraulic system featuring VDP technology
- ✓ Hydraulic Control 5 function (H28-32XM-16CH) or 7 function (H40-52XM-16CH) Joystick
- ✓ CANbus electrical control system for engine, transmission and hydraulics
- ✓ 16.00 - 25 32PR bias ply treaded PR E4 load pneumatic drive and steer tires (H28-32XM-16CH)
- ✓ 18.00 - 25 40PR standard pneumatic drive and steer tyres (H40-52XM-16CH)
- ✓ Directional control lever with direction change interlock system
- ✓ Mast tilt: 6° forward / 10° back
- ✓ Lockable battery disconnect switch
- ✓ 120 amp alternator
- ✓ Enclosed Cab without Air Conditioning featuring:
  - Seat-Side Hydraulic Control Joystick
  - Multifunction Display Panel
  - Interior Wide Angle Mirrors
  - Telescoping & Tilting Steering Column
  - I-style Front screen wiper
  - 24-12 V DC/DC Converter
  - Top & Rear Wipers
  - Heater Re-circulation Fan
  - Floor Mat
  - Isolated Mounting for Low Noise and Vibration
  - Handrails for Operator Entry and Exit
- ✓ Mechanical, Full Suspension Vinyl or Cloth Seat with integrated adjustable armrest and orange Hi-Vis seat belt
- ✓ Operator restraint system
- ✓ Operator presence system
- ✓ Electronic horn - 105 dB (A)
- ✓ Visible alarm / amber strobe light
- ✓ Self adjustable back up alarm, volume >5dB(A) ambient
- ✓ 24V electrical system
- ✓ Manual Tilt Operator Compartment for Service Access
- ✓ Light Kit 4 (H28-32XM-16CH):
  - LED rear cluster w/ stop, reverse & direction light

# STANDARD EQUIPMENT

- 4 x Halogen working lights mounted on front of the cab
- 2 x Halogen working lights mounted on rear of the cab
- 2 x Halogen drive lights, 2 LED direction / marker lights mounted on front fender
- Light Kit 1 (H28-32XM-16CH):
  - LED rear cluster with stop, reverse and direction light
  - 4 x Halogen working lights mounted on front of the cab
  - 2 x Halogen working lights mounted on rear of the cab
- 4 x Halogen drive lights mounted on front fender
- Steering wheel with spinner knob
- Steer wheel nut protection
- Non-lockable diesel fuel cap
- Literature Package
  - Operator Manual
- 12 months / 2,000 hours manufacturer's warranty

# OPTIONAL EQUIPMENT

## H40-52XM-16CH

- Cummins QSM11 250/ max 272 KW @ 2.100 rpm Turbo Diesel Engine
  - Stage IIIA Compliant
  - ECO-eLo / HiP performance modes
  - Hibernate Idle
- DANA Spicer off-Highway TE-27 4 speed auto-shifting transmission with APC200 shift controller

## H28-52XM-16CH

- Masts: various 2-stage NFL masts with various lift heights available
- Various hydraulic valve control groups
- MONOTROL® pedal direction control with direction change interlock system
- Mast tilt: 15° forward / 10° back
- Tyres - Drive and steer
  - 16.00 - 25 Solid (H28-32XM)
  - 16.00 - R25 MICHELIN XZM radial (H28-32XM)
  - 16.00 - R25 GOODYEAR EV-4S slick (H28-32XM)
  - 18.00 - 25 Solid (H40-52XM)
  - 18.00 - 25 40PR Bridgestone STM S slick (H40-52XM)
  - 18.00 - 25 40PR GOODYEAR EV-4B (H40-52XM)
  - 18.00 - R225 MICHELIN XZM radial (H40-52XM)

- Front and rear mud flaps
- Enclosed Cab with Air Conditioning includes:
  - Seat-Side Hydraulic Control Joystick
  - Multifunction Display Panel
  - Interior Wide Angle Mirrors
  - Telescoping & Tilting Steering Column
  - Floor Mat
  - 24-12V DC/DC Converter
  - I - style Front screen Wiper
  - H - style Front screen Wiper
  - Heater
- Cab options:
  - Temperature controller
  - Air Conditioner, manual controlled
  - Air Conditioner, automatically controlled
  - High Performance Air Conditioner, manual controlled
  - High Performance Air Conditioner, automatically controlled
  - Reading light
  - Top and rear sun shades
  - Trainer seat
  - Recirculation fan
  - IT console for on-board computer
  - Rear locking console
  - Heated Top Window
  - Engine start interlock
  - Radio preparation, inclusive wire, two speakers and antenna
  - Rain top (OHG only)

# H28-52XM-16CH

28,000 - 52,000 KG @ 1,600MM

LADEN CONTAINER  
HANDLERS

## OPTIONAL EQUIPMENT

- Wire mesh protection guard on Top of cab
- External Mirror right and left
- Seats:
  - Mechanical, Full Suspension High backrest Vinyl or Cloth Seat
  - Pneumatic, Full suspension Vinyl or Cloth Seat
  - Pneumatic, Full Suspension High backrest Vinyl or Cloth Seat
  - Deluxe Air Suspended Full Suspension Cloth Seat
  - Heated Deluxe Air Suspended Full Suspension Cloth Seat
- 3-point seat belt for Deluxe Seat
- Powered Tilt Operator Compartment
- Air Horn
- Various Light Kits
- Various HID (High Intensity Discharge - Xenon) and halogen light kits available
- Hydraulic accumulator
- Hydraulic temperature protection
- Pressure compensated lowering
- Lifting eyes
- Engine pre-heater 1.500 W / 230 Volt AC
- NATO Start aid connector (24V)
- Mast tilt indicator
- Traction speed limiter
- Empty seat engine shutdown
- Lockable diesel fuel cap
- Automatic greasing system
- Centralized greasing provision for mast chain sheaves (available on limited masts)
- HysterTracker Wireless Asset Management system

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



# STRONG PARTNERS. TOUGH TRUCKS.™

For Demanding Operations, Everywhere.

Hyster supplies a complete range of warehouse equipment, IC and electric counterbalanced trucks, container handlers and reach stackers. Hyster is committed to being much more than a lift truck supplier.

Our aim is to offer a complete partnership capable of responding to the full spectrum of material handling issues. Whether you need professional consultancy on your fleet management, fully qualified service support, or reliable parts supply, you can depend on Hyster.

Our network of highly trained dealers provides expert, responsive local support. They can offer cost-effective finance packages and introduce effectively managed maintenance programs to ensure that you get the best possible value. Our business is dealing with your material handling needs so you can focus on the success of your business today and in the future.



# H28-52XM-16CH

28,000 - 52,000 KG @ 1,600MM

LADEN CONTAINER  
HANDLERS

**Adaptalift Hyster offer a complete range of forklifts and industrial solutions, including sales and hire, fleet management, service and parts.**



Established in 1934, Hyster Forklifts have lead the way in design and reliability of materials handling equipment. A complete range of equipment is available, from powered pallet trucks to 52 tonne container handlers, with a variety of fuel types including LPG, Battery Electric and Diesel. So whatever size load you're handling, we can supply the solution.

Adaptalift began as Forklift Engineering Australia, which was founded in 1982 to design and manufacture forklift attachments. As demand grew for these attachments to be supplied with forklifts, Adaptalift Forklift Rentals & Sales was formed. Adaptalift has grown rapidly to become the largest Australian privately owned and operated forklift company, with a fleet of over 10,500 units nationwide. The combined strength of Adaptalift and Hyster Forklifts will revolutionise materials handling in this country.

AAL Hyster's reputation has been built on total commitment to customer service while providing the most reliable, flexible and cost effective solutions to materials handling and fleet management requirements. Several top 20 companies are already taking advantage of AAL Hyster's National Network.

With sales and service centres Australia wide, in all metropolitan & major regional areas, and a commitment to expand this network nationally, AAL Hyster guarantee industry leading response and efficient service. We at AAL Hyster understand the concept of 'partnership'. Our exceptional customer retention rate and long standing customer relationships are testimony to the fact AAL Hyster does it better.



# YOUR TOTAL SERVICE SOLUTION

The Adaptalift Hyster Service program offers:



## Priority Customer

Adaptalift Hyster Premium Service ensures your servicing needs are our priority. Adaptalift Hyster Premium Service members are priority customers and take precedence when requiring service or maintenance assistance



## Exclusive Offers and Deals

Adaptalift Hyster Premium Service members receive exclusive offers and deals on equipment, servicing and parts including a superior hourly rate



## Assigned Representative

Access to an assigned Aftermarket Representative who can provide expert advice and industry knowledge as well as ensuring dependable and consistent communication in relation to your forklift fleet maintenance



## Fixed Service Pricing

Fixed service pricing for the first 12 months which assists with maintenance budget management for your business



## Safety Checks

Rigorous safety checks specific to your make and model of equipment is conducted and any safety related issues are communicated immediately



## Clear Pricing Structure

Any additional repairs are quoted and sent to your company with a clear pricing structure for review and approval prior to commencement



## Scheduled Maintenance

A planned scheduled maintenance and servicing program tailored to fit with your shift patterns, hours and applications which is pre-booked to ensure no added maintenance responsibility to your business



## 24/7 Support

In the event of you requiring a technician onsite to tend to a breakdown, you can contact our Service Centre 24/7 on 1300 7 FLEET (1300 7 35338)



## Waste Removal

Waste removal from your site by our technicians and disposal in line with Adaptalift Hyster's own Duty of Care

## Branches

### VICTORIA

#### Melbourne - Springvale (Head Office)

📍 1574 Centre Rd  
Springvale, VIC, 3171  
☎ [03] 9547 8000

#### Melbourne - Truganina

📍 42-44 Jessica Way  
Truganina, VIC, 3029  
☎ [03] 9394 4000

### TASMANIA

#### Spreyton

📍 87a Devonport Road  
Spreyton, TAS, 7310  
☎ [03] 6427 3966

### NEW SOUTH WALES

#### Sydney (State Office)

📍 219 Newton Rd  
Wetherill Park, NSW, 2164  
☎ [02] 8788 1777

#### Riverina

📍 5 Favell Street  
Griffith, NSW, 2680  
☎ [02] 6962 7343

### WESTERN AUSTRALIA

#### Perth (State Office)

📍 Unit 1, 1-9 Kurnall Road  
Welshpool, WA, 6106  
☎ [08] 9352 9200

### QUEENSLAND

#### Brisbane (State Office)

📍 11 Lombank Street  
Acacia Ridge, QLD, 4110  
☎ [07] 3373 5111

#### Rockhampton

📍 62 Glenmore Road  
Park Avenue, Rockhampton  
QLD 4701  
☎ [07] 4922 8874

#### Townsville

📍 39 Duckworth Street  
Garbutt, QLD, 4814  
☎ [07] 4778 2000

### SOUTH AUSTRALIA

#### Adelaide (State Office)

📍 18-22 Churchill Rd. Nth.  
Dry Creek, SA, 5094  
☎ [08] 8360 3444

## Service Centres

### VICTORIA

Bendigo  
Warrnambool  
Ballarat  
Shepparton  
Wondonga  
Mildura

### TASMANIA

Hobart  
Launceston  
Burnie

### NEW SOUTH WALES

Dubbo  
Griffith  
Tamworth  
Newcastle  
Wollongong  
Canberra  
Tumut  
Bathurst  
Wagga Wagga  
Albury  
Gosford  
Coffs Harbour

### QUEENSLAND

Rockhampton  
Mackay  
Cairns  
Gladstone  
Townsville  
Mt Isa  
Toowoomba  
Gold Coast  
Sunshine Coast

### SOUTH AUSTRALIA/NT

Riverland  
Darwin

### WESTERN AUSTRALIA

Margaret River



# 13 22 54

[aalhysterforklifts.com.au](http://aalhysterforklifts.com.au)