

STRONG PARTNERS. TOUGH TRUCKS.

## **Preliminary Information**

## High Capacity Forklift Trucks

H25XMS-9, H30XMS-9, H32XMS-9 25.000 – 32.000 kg @ 900 mm

H25XM-12, H28XM-12, H30XM-12, H32XM-12 25.000 – 32.000 kg @ 1200 mm

## Container Handling Trucks H28XM-16CH, H32XM-16CH

24.000 – 28.400 kg @ 1600 mm



## H25-32XMS-9 Forklift Trucks

Non-top         Non-top <t< th=""><th></th><th></th><th></th><th></th><th>HYS</th><th><b>TER</b></th><th>HYS</th><th>TER</th><th>HYS</th><th>TER</th><th></th><th></th></t<>					HYS	<b>TER</b>	HYS	TER	HYS	TER		
1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	S	1.1	Manufacturer Model designation		H25)	(MS-9	H30X	MS-9	H32)	(MS-9	1.1	Ĥ
1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	<b>IIST</b>	_	•									ARA
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10         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	CHA	1.6		c (mm)								TICS
Normal         Normal<		_									_	
$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$		1.9	Wheelbase	y (mm)	3	655	3 9	935	3	935	1.9	
$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	ŝ	21	Linjadan weicht	ka	38	205	45	555	46	165	21	\$
N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N	GHT				-				-			/EIG
No.         Total         No.         No. </td <td>WEI</td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HTS</td>	WEI	_										HTS
										•		
1       1       1000,00       2.00       2.00       2.00       2.00       2.00       2.00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       <	B		Tyres: L = pneumatic, V = solid, SE = pneumatic-shaped solid									≦
1       1       1000,00       2.00       2.00       2.00       2.00       2.00       2.00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       <	TγR											Ē
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1       1       1000,00       2.00       2.00       2.00       2.00       2.00       2.00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       1000,00       <		_		b <sub>to</sub> (mm)	-						_	Τ¥
0.       Multification of all controls       0, mm       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0	MH											RES
4       Single functional (Single functional (Si					<b>I</b>							
4.         1.         1.         1.         1.         1.         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1		4.1	Mast tilt, forward / backwards	degrees	6	10	6	10	6	10	4.1	
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Sector         Sector<		4.20	Length to face of forks	I <sub>2</sub> (mm)	5	875	62	240	6	240	4.20	
State         Lange sch         Manage Dankburgen State         Manag		_					-				_	
Image do         Security (A)		4.22	Fork dimensions	s/e/l (mm)							4.22	_
a) Subdod Fak Arzinony, b) is non protein b) (Distour Zoo Fak Arzinony, b) (D	IONS	4.23	Carriage type								4.23	DIME
a) Subdod Fak Arzinony, b) is non protein b) (Distour Zoo Fak Arzinony, b) (D	ENSI	4.24	Carriage width	b3 (mm)							4.24	ISN
a) Subdod Fak Arzinony, b) is non protein b) (Distour Zoo Fak Arzinony, b) (D	MID		Width over the forks min. / max.,									SNO
b) Optional Zame header fragmation and point or attract point on attract poin		4.05		h (mm)							4.05	
b) Sphear Zee miched Tech Padeon, with Sph Inner position         b) SSG         0 2.530         0.000         0 2.530         0.000         0 2.530         0.000         0 2.530         0.000         0 2.530         0.000         0 2.530         0.000         0 2.530         0.000         0 2.530         0.000         0 2.530         0.000         0 2.530         0.000         0 2.530         0.000         0 2.530         0.000         0 2.530         0.000         0 2.530         0.000         0 2.530         0.000         0 2.530         0.000         0 2.530         0.000         0 2.530         0.000         0 2.530         0.000         0 2.530         0.000         0 2.530         0.500         0 2.530         0.500         0 2.530         0.500         0 2.530         0.500         0 2.530         0.500         0 2.530         0.500         0 2.530         0.500         0 2.530         0.500         0 2.530         0.500         0 2.530         0.500         0 2.530         0.500         0 2.530         0.500         0 2.530         0.500         0 2.530         0.500         0 2.530         0 2.53         0 2.53         0 2.53         0 2.53         0 2.53         0 2.53         0 2.53         0 2.53         0 2.53         0 2.53         0 2.53         0		4.20		D <sub>5</sub> (mm)							4.20	
4.3       Ground desarese, under east, with led       m (mm)         4.3       Ground desarese, under east, with led       m (mm)         4.3       Ground desarese, under east, with led       m (mm)         4.3       Ground desarese, under east, with led       m (mm)         4.3       Ground desarese, under east, with led       M (mm)       365       440       445       4.32         4.3       Ground desarese, under east, with led       M (mm)       Astern east, with led       870       870       870       4.32         4.3       Turing radiu       Dim specific desarese, distance (lace as 180 mm V x 180 mm L)       Astern       980       890       4.33         5.0       Turing radiu       M (minot least       W (mm)       5.26       5.661       5.671       4.35         5.1       Turing radiu       m (minot least       m (minot least       1.35       1.35       2.32       1.02       1.8.0       1.8.0       1.8.0       1.8.0       1.8.0       1.8.0       1.8.0       1.8.0       1.8.0       1.8.0       1.8.0       1.8.0       1.8.0       1.8.0       1.8.0       1.8.0       1.8.0       1.8.0       1.8.0       1.8.0       1.8.0       1.8.0       1.8.0       1.8.0       1.8.0       1.8.0												
4.2.         Ground desaments, centre of wheelbases         m, (mm)         35.5         4.40         4.40         4.40         4.31           4.3.         Stacking Adale, whith 200 mm spenating desamenes (bad size 1830 mm V x 1830 mm L)         Adat(mm)         8.540         8.700         8.700         4.33           4.3.5         Stacking Adale, whith 200 mm spenating desamenes (bad size 1830 mm V x 1830 mm L)         Adat(mm)         8.540         8.700         8.570         8.670         4.33           4.3.5         Internal funning and/as         Weight mining and/as         Weight mining and/as         Weight mining and/as         8.540         8.700         8.570         8.670         4.33           5.1         Threel speed with / whithout load - whith 201 be ongine         mining         mining         9.75         8.670         8.700         4.33           5.1         Threel speed with / whithout load - whith 201 be ongine         mining         mining         6.30         0.23         0.23         0.23         0.23         0.23         0.23         0.23         0.23         0.23         0.23         0.23         0.23         0.23         0.23         0.23         0.23         0.23         0.23         0.23         0.23         0.23         0.23         0.23         0.23 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>												
Stability Adaptic without counting desamance (bad size 1830 mm W x 1830 mm L)         V (mm)           4.33         Stability Adaptic without counting desamance (bad size 1830 mm W x 1830 mm L)         A 44 (mm)           4.35         Turning naduu         W (200 mm operating desamance (bad size 1830 mm W x 1830 mm L)         A 44 (mm)           4.35         Turning naduu         W (200 mm operating desamance (bad size 1830 mm W x 1830 mm L)         A 44 (mm)           4.35         Turning naduu         W (200 mm operating desamance (bad size 1830 mm W x 1830 mm L)         A 44 (mm)           4.35         Turning naduu         W (200 mm operating desamance (bad size 1830 mm W x 1830 mm L)         A 44 (mm)           4.35         Turning naduu         W (mm)         532         E 561         5601         4.35           5.1         Turning paed with 7% shout bad - with 204 type angine         m has         M (200 mm operating desamance)         0.25         0.28         0.29         0.28         0.29         0.28         0.29         0.28         0.29         0.28         0.29         0.28         0.29         0.28         0.29         0.28         0.29         0.30         0.30         0.30         0.30         0.30         0.30         0.30         0.30         0.30         0.30         0.30         0.30         0.30 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>												
4.33         Stacking Adata, with 200 mm operating docursers (bot size 180 mm W x 1830 mm L)         Add (mm)         9.40         8.900         8.900         8.900         4.33           4.35         Stacking Adata, with 10% coording docursers (bot size 1800 mm W x 1830 mm L)         Add (mm)         9.175         9.670         9.670         9.670         9.670         9.670         9.670         9.670         9.670         9.670         9.670         9.670         9.670         9.670         9.670         9.670         9.670         9.670         9.670         9.670         9.670         9.670         9.670         9.670         4.33         9.670         9.670         9.670         9.670         4.33         9.670         4.33         9.670         4.33         9.670         4.33         9.670         4.33         9.670         4.33         9.670         4.33         9.670         4.33         9.670         4.33         9.670         4.33         9.670         4.33         9.670         4.33         9.670         4.33         9.670         4.33         4.35         4.35         4.35         4.35         4.35         4.35         4.35         4.35         4.35         4.35         4.35         4.35         4.35         4.35         4.35         4		4,32									4,3Z	
Stadray Asku, whi (Yk) operating daarance (load size 1830 m W x 1830 m U x 1		4.33									4.33	
4.35       Internal huming radius       b <sub>10</sub> (mm)       428       983       593       4.35         5.1       Travel speed with / without bad       km/h       km/h       25       27       25       26       27       25       28       0.29       0.25       0.29       5.2       0.29       5.2       0.29       0.25       0.29       5.2       0.29       0.25       0.29       5.2       0.29       0.25       0.29       5.2       0.29       0.25       0.29       5.2       0.29       0.25       0.29       5.2       0.29       0.25       0.29       0.25       0.29       0.25       0.29       5.2       0.26       0.29       0.25       0.29       0.25       0.29       0.25       0.29       0.25       0.29       0.25       0.29       0.25       0.29       0.25       0.29       0.25       0.29       0.25       0.29       0.25       0.29       0.25       0.29       0.25       0.29       0.25       0.29       0.25       0.29       0.25       0.29       0.25       0.29       0.25       0.29       0.25       0.29       0.25       0.29       0.25       0.29       0.25       0.29       0.25       0.20       0.25					9	175	96	570	9	670	1	
Control         <		4.35	Turning radius	W <sub>a</sub> (mm)	5	326	5 6	691	5	691	4.35	
5.2         Lifting speed with / without load - with 230 Hp engine         mkec           Lifting speed with / without load - with 230 Hp engine         mkec         0.30         0.35         0.25         0.29         0.25         0.29         6.2           Lifting speed with / without load - with 230 Hp engine         mkec         T.B.D		4.36	Internal turning radius	b <sub>13</sub> (mm)	4	28	5	83	5	83	4.36	
5.2         Lifting speed with / without load - with 230 Hp engine         mkec           Lifting speed with / without load - with 230 Hp engine         mkec         0.30         0.35         0.25         0.29         0.25         0.29         6.2           Lifting speed with / without load - with 230 Hp engine         mkec         T.B.D		54	Transformed and the facility and faced	Loss Mr.	26	07	25	26	25	26		
Lithing speed with / without load - with 284 Hp engine         mesce mesce withing speed with / Si load - with 284 Hp engine         mesce mesce withing speed with / Without load         0.34         0.35         0.28         0.29         0.28         0.29         0.28         0.29         0.28         0.29         0.28         0.29         0.28         0.29         0.28         0.29         0.28         0.29         0.28         0.29         0.28         0.29         0.28         0.29         0.28         0.29         0.28         0.29         0.28         0.29         0.28         0.29         0.28         0.29         0.28         0.29         0.28         0.29         0.28         0.29         0.28         0.29         0.28         0.29         0.28         0.29         0.28         0.29         0.28         0.29         0.28         0.29         0.28         0.29         0.28         0.29         0.28         0.29         0.28         0.29         0.28         0.29         0.28         0.29         0.28         0.29         0.28         0.29         0.28         0.29         0.28         0.29         0.28         0.29         0.28         0.29         0.28         0.29         0.28         0.29         0.27         0.25         0.27<		_										
5.2a         Lifting speed with 70% load - with 220 Hp engine         m/sec           0.1mm greaded with 70% load - with 220 Hp engine         m/sec         T.B.D         T.B.D <td></td> <td>0.2</td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0,2</td> <td></td>		0.2			-						0,2	
5.3         Lovering speed with / without load         mise           5.5         Drawbar pull with / without load         1.6 km/hr - with 230 Hp engine ◆         1.40         1.45         1.41         1.46         1.45         5.5           Drawbar pull with / without load         1.6 km/hr - with 230 Hp engine ◆         1.40         1.25         1.41         1.46         1.45         5.5           Drawbar pull with / without load         1.6 km/hr - with 230 Hp engine ◆         1.40         1.76         1.53         1.60         1.61         1.25         1.61         1.65         1.60         1.60         1.60         1.60         1.65         1.60         1.61         1.25         1.61         1.65         1.61         1.65         1.60         1.60         1.60         1.60         1.60         1.60         1.60         1.60         1.60         1.60         1.60         1.60         1.60         1.60         1.60         1.60         1.60         1.60         1.60         1.60         1.60         1.60         1.60         1.60         1.60         1.60         1.60         1.60         1.60         1.60         1.60         1.60         1.60         1.60         1.60         1.60         1.60         1.60         1.60		5.2a			T.B.D		T.B.D	T.B.D	T.B.D	T.B.D	5.2a	
Normal State         Drawbar pull with / without load @ 1.6 km/hr - with 230 Hp engine ◆         kM           5.5         Drawbar pull with / without load @ 1.6 km/hr - with 230 Hp engine ◆         kM           6.6         Max. drawbar pull with / without load @ 1.6 km/hr - with 230 Hp engine ◆         kM           6.7         Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine ↑         %           6.7         Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine ↑         %           6.7         Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine ↑         %           6.8         Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine ↑         %           7.6         Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine ↑         %           8.6         Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine ↑         %           5.10         Service brake         00         28         25         27         25         27         5.8           7.1         Engine enaufacturer / type          Oll immersed Wet discs'         Oll immersed Wet discs'         Oll immersed Wet discs'         S.10           7.1         Engine ouput according to 180. 156:			Lifting speed with 70% load - with 264 Hp engine	m/sec	T.B.D	T.B.D	T.B.D	T.B.D	T.B.D	T.B.D		
Max. drawbar pull with / without load - with 24d Hp engine +       KN         5.7       Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine +       %         6.7       Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine +       %         7       Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine +       %         6.8       Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine +       %         7.1       Engine manufacturer / type       200       22       27       2.9       2.7       5.8         7.1       Engine manufacturer / type       Cummins       QSC 8.3       Cummins       QSC 8.3       Cummins       QSC 8.3       7.1         7.1       Engine manufacturer / type       Cummins       QSC 8.3       Cummins       QSC 8.3       Cummins       QSC 8.3       7.1         7.3       For standard angle Maximum @ 2000 pm / Nominal @ max 2 200 pm       KW       230 Hp (172 kW)       215 Hp (160 kW)       230 Hp (172 kW	ICE	_			-						_	PE
Max. drawbar pull with / without load - with 24d Hp engine +       KN         5.7       Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine +       %         6.7       Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine +       %         7       Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine +       %         6.8       Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine +       %         7.1       Engine manufacturer / type       200       22       27       2.9       2.7       5.8         7.1       Engine manufacturer / type       Cummins       QSC 8.3       Cummins       QSC 8.3       Cummins       QSC 8.3       7.1         7.1       Engine manufacturer / type       Cummins       QSC 8.3       Cummins       QSC 8.3       Cummins       QSC 8.3       7.1         7.3       For standard angle Maximum @ 2000 pm / Nominal @ max 2 200 pm       KW       230 Hp (172 kW)       215 Hp (160 kW)       230 Hp (172 kW	MAN	5.5									5.5	RFOF
Max. drawbar pull with / without load - with 24d Hp engine +       KN         5.7       Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine +       %         6.7       Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine +       %         7       Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine +       %         6.8       Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine +       %         7.1       Engine manufacturer / type       200       22       27       2.9       2.7       5.8         7.1       Engine manufacturer / type       Cummins       QSC 8.3       Cummins       QSC 8.3       Cummins       QSC 8.3       7.1         7.1       Engine manufacturer / type       Cummins       QSC 8.3       Cummins       QSC 8.3       Cummins       QSC 8.3       7.1         7.3       For standard angle Maximum @ 2000 pm / Nominal @ max 2 200 pm       KW       230 Hp (172 kW)       215 Hp (160 kW)       230 Hp (172 kW	FOR	5.6									5.6	RMA
5.7       Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine 1       %         5.8       Gradeability with / without load @ 1.6 km/hr - with 234 Hp engine 1       %         5.8       Gradeability with / without load @ 1.6 km/hr - with 234 Hp engine 1       %         5.10       Gradeability with / without load @ 1.6 km/hr - with 234 Hp engine 1       %         6       Gradeability with / without load @ 1.6 km/hr - with 234 Hp engine 1       %         7.1       Engine manufacturer / type       27       28       23       27       29       27       5.0         7.1       Engine manufacturer / type       01 immersed wet discs'       OII immersed wet discs'       OII immersed wet discs'       0.0       28       2.0       2.7       2.8       2.3       2.7       2.5       2.7       5.0         7.1       Engine manufacturer / type       01 immersed wet discs'       OII immersed wet discs'       OII immersed wet discs'       OII immersed wet discs'       0.0       1.0       2.0       1.0       2.0       1.0       2.0       1.0       2.0       1.0       2.0       1.0       2.0       1.0       1.0       1.0       1.0       1.0       1.0       1.0       1.0       1.0       1.0       1.0       1.0       1.0       1.0       1.0 </td <td>PER</td> <td>0.0</td> <td></td> <td></td> <td>200</td> <td>125</td> <td>201</td> <td>154</td> <td>201</td> <td>154</td> <td>J.0</td> <td>NCE</td>	PER	0.0			200	125	201	154	201	154	J.0	NCE
Gradeability with / withoutload @ 1.6 km/hr - with 284 Hp engine 1       %         5.8       Gradeability with / withoutload @ stall - with 230 Hp engine 1       %         5.8       Gradeability with / withoutload @ stall - with 230 Hp engine 1       %         5.10       Service brake       Oll immersed wet discs'       Not immersed wet discs'       Not immersed wet discs'       Not immersed wet discs'       5.10         7.1       Engine manufacturer / type       Engine output according to 150 fs6: For standard ongine: Maximum @ 2.000 rpm / Nominal @ max 2.200 rpm       kW       230 Hp (172 kW)       215 Hp (160 kW)       230 Hp (172 kW)       215 Hp (160		5.7			24	28	20	27	19	27	5.7	
Gradeability with / without load@ stall - with 264 Hp engine 1         %         35         28         29         27         29         27         1           5.10         Service brake         Service brake         Oil immersed wel discs'         Oil immersed wel discs'         Oil immersed wel discs'         Oil immersed wel discs'         Service brake         Service brake <td< td=""><td></td><td></td><td></td><td></td><td></td><td>28</td><td></td><td></td><td>22</td><td></td><td></td><td></td></td<>						28			22			
5.10       Service brake       Oil immersed wet discs'       Oil immersed wet discs'       Oil immersed wet discs'       5.10         7.1       Engine manufacturer / type <ul> <li>Engine manufacturer / type</li> <li>For standard engine: Maximum @ 2000 rpm / Nominal @ max 2 200 rpm</li> <li>For standard engine: Maximum @ 2000 rpm / Nominal @ max 2 200 rpm</li> <li>For standard engine: Maximum @ 2000 rpm / Nominal @ max 2 200 rpm</li> <li>For standard engine: Maximum @ 2000 rpm / Nominal @ max 2 200 rpm</li> <li>For standard engine: Maximum @ 2000 rpm / Nominal @ max 2 200 rpm</li> <li>For standard engine: Maximum @ 2000 rpm / Nominal @ max 2 200 rpm</li> <li>For standard engine: Maximum @ 2000 rpm / Nominal @ max 2 200 rpm</li> <li>For optional regine: Maximum @ 2000 rpm / Nominal @ max 2 200 rpm</li> <li>For optional engine: Maximum @ 2000 rpm / Nominal @ max 2 200 rpm</li> <li>For optional regine: Maximum @ 2000 rpm / Nominal @ max 2 200 rpm</li> <li>For optional regine: Maximum @ 2000 rpm / Nominal @ max 2 200 rpm</li> <li>For optional regine: Maximum @ 2000 rpm / Nominal @ max 2 200 rpm</li> <li>For optional regine: Maximum @ 2000 rpm / Nominal @ max 2 200 rpm</li> <li>For optional regine: Maximum engine torque - Optional 284 Hp engine</li> <li>Number of cylinders / displacement</li> <li>Cummins</li> <li>Governed speed</li> <li>rpm</li> <li>2200</li> <li>7.5</li> <li>Fuel consurption in</li></ul>		5.8									5.8	
Image: constraint of the second sec				%	-							
Eighe output according to ISO 1585:         Eighe output according to ISO 1585:         230 Hp (172 kW)         215 Hp (160 kW)         230		5.10	Service brake		Oil immerse	a wet discs'	Oil immerse	a wet discs'	Uil immerse	ea 'wet discs'	5.10	
Eighe output according to ISO 1585:         Eighe output according to ISO 1585:         230 Hp (172 kW)         215 Hp (160 kW)         230		71	Engine manufacturer / type		Cummins	QSC 8.3	Cummins	QSC 8.3	Cummins	QSC 8.3	71	
7.2       For standard angine: Maximum @ 2 000 rpm / Nominal @ max 2 200 rpm       XV       230 Hp (172 KW)       215 Hp (160 KW)       202 Hp (172 KW)       215 Hp (160 KW)       201 Hp (172 KW)       215 H												
Open         7.2.1         Maximum engine torque - Standard 230 Hp engine         Nm         915 Nm @ 900 - 1500 rpm         915 Nm @ 900 - 1500 rpm         7.2.1           7.3         Governed speed         rpm         1125 Nm @ 1500 rpm         1125 Nm @ 1500 rpm         1125 Nm @ 1500 rpm         7.2.1         7.2.1           7.4         Number of cylinders / displacement         /cm <sup>3</sup> 6         8270         6         8270         7.4           7.5         Fuel consumption in accordance to VDI         Wh         Torque Converter         Torque Converter         7.5           8.1         Drive control         Bar         235         235         235         8.2           8.2         Working pressure for attachments         bar         70         70         8.3           8.4         Noise level LpA2, inside cab, per EN12053         dB (A)         6         76         76         8.4		7.2	For standard engine: Maximum @ 2 000 rpm / Nominal @ max 2 200 rpm	kW							7.2	
7.3       Governed speed       rpm       2 200       2 200       7.3         7.4       Number of cylinders / displacement       /cm³       6       8 270       6       8 270       7.4         7.5       Fuel consumption in accordance to VD1       Uh       6       8 270       6       8 270       7.4         8.1       Drive control       Ih       Torque Converter       Torque Converter       Torque Converter       8.1         8.2       Working pressure for attachments       bar       235       235       8.2         8.3       Oil flow for auxiliary functions       I/min       70       70       70       8.3         8.4       Noise level LpA2, inside cab, per EN12053       dB (A)       76       76       76       8.4	OR	$\square$										MO
7.3       Governed speed       rpm       2 200       2 200       7.3         7.4       Number of cylinders / displacement       /cm³       6       8 270       6       8 270       7.4         7.5       Fuel consumption in accordance to VDI       Uh       6       8 270       6       8 270       7.4         8.1       Drive control       The control       Torque Converter       Torque Converter       Torque Converter       8.1         8.2       Working pressure for attachments       bar       235       235       8.2         8.3       Oil flow for auxiliary functions       Imin       70       70       70       8.3         8.4       Noise level LpA2, inside cab, per EN12053       dB (A)       A       76       76       8.4	MOT	7.2.1		Nm							7.2.1	TOR
T.5         Fuel consumption in accordance to VDI         Im		7.3		rpm						с ,	7.3	
B.1         Drive control         Torque Converter         Torque Converter         Torque Converter         8.1           8.2         Working pressure for attachments         bar         235         235         8.2           01 fl/w for auxiliary functions         I/rim         70         70         8.3         8.2           8.4         Noise level LpA2, inside cab, per EM12053         dB (A)         76         76         8.4												
8.2         Working pressure for attachments         bar         235         235         8.2           8.3         Oil flow for auxiliary functions         I/min         70         70         8.3         9           8.4         Noise level LpA2, inside cab, per EN12053         dB (A)         76         76         8.4         76         76         8.4		7.5	Fuel consumption in accordance to VDI	Vh		8	2	2		<u>a</u>	7.5	
8.2         Working pressure for attachments         bar         235         235         8.2           8.3         Oil flow for auxiliary functions         l/min         70         70         8.3         70         8.3         70         70         8.3         8.3         8.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3         9.3			Drive sector		T	Convertor	T	Convertor	τ	Convertor		
B.3         Oil flow for auxiliary functions         I/min         70         70         8.3           8.4         Noise level LpA2, inside cab, per EN12053         dB (A)         76         76         8.4				bar								
	HER	_										OTH
	OT											5
		_			F	Pin	P	in	F	Pin		

## Equipment and weight: Fork lift trucks:

 Weights (line 2.1) are based on the following specifications: Complete truck with Pneumatic tyres, 4265 mm BOF (4370 mm TOF) 2-Stage Vista Mast, Dual-function Sideshift-Forkpositioners carriage and Hook-type forks 2440 mm long.

Notes: Specifications are affected by the conditions of the vehicle and how it is equipped, as well as the nature and condition of the operating area. If these specifications are critical, the proposed application should be discussed with your dealer

- † Gradeability figures (line 5.7 & 5.8) are provided for comparison of tractive performance, but are not intended to endorse the operation of the vehicle on the stated inclines. Follow instructions in the operating manual regarding operation on inclines.
- Drawbar pull performance figures (line 5.5 & 5.6) are only indicative for comparison purpose. These performances are only possible for a short period of time.
- Consult your Hyster lift truck dealer

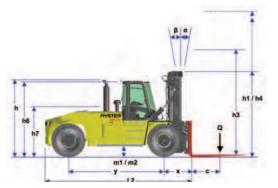
Specification data is based on VDI 2198

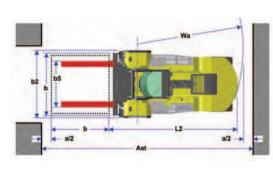
Hyster products are subject to change without notice. Lift trucks illustrated may feature optional equipment.

**CE Safety**: This truck conforms to the current EU requirements.

## H25-32XM-12 Forklift Trucks

			HY	STER	HYS	STER	HYS	STER	HYS	STER	
<u>s</u> 1.1	Manufacturer										1.1 9
1.2 1.3 1.4 1.5 1.6	Model designation Power: battery, diesel, LPG, electric mains			XM-12 esel		KM-12 esel		KM-12 esel		XM-12 esel	1.2 1.3 1.4 1.5 1.6
1.0 1.4	Operation: manual, pedestrian, stand, seat, orderpicker			ieat		eat		eat		eat	1.4 E
1.5	Load capacity	Q (kg)		000	28 000	31 850	30 000	32 000		000	1.5
	Load centre	c (mm)		200	1 200	900	1 200	900 - 1 000		200	1.6
1.8 1.9	Load distance (Dual function SS & FP Hook-type carriage) Wheelbase	x (mm) y (mm)		185 315		270 315		270 315		270 825	1.8 1.9
1.0	Thousage	y (miny								020	1.0
SE 2.1	Unladen weight 🔹	kg	38	630	45	785	46	430	46	010	2.1
<u>5</u> 2.2	Axle loading with load, front/rear	kg	58 345	5 285	67 735	6 050	70 935	5 490	72 082	5 927	2.2 g
2.3	Axle loading without load, front/rear	kg	19 530	19 100	23 715	22 070	23 770	22 660	23 708	22 302	2.3
<b>vo</b> 3.1	Tyres: L = pneumatic, V = solid, SE = pneumatic-shaped solid			L		L		L		L	3.1 <
3.2 3.2	Tyre size, front		14,0	0 x 24	16,0	0 x 25	16,0	0 x 25	16,0	0 x 25	3.1 3.2 3.3
3.1 3.2 3.3 3.5 3.6 3.6 3.6	Tyre size, rear			0 x 24		0 x 25		0 x 25		0 x 25	3.3
STEF 3.5 3.6	Number of wheels, front / rear (X = driven) Tread, front	b <sub>10</sub> (mm)	4X	250	4X	425	4X	2 425	4X	2 425	3.5 ×
H 3.7	Tread, rear	b <sub>10</sub> (mm)		380		340		340		340	3.6 3.7
							-		-		
4.1	Mast tilt, forward / backwards	degrees	6	10	6	10	6	10	6	10	4.1
4.2	Height of mast lowered (unloaded) Lift height (bottom of forks)	h <sub>1</sub> (mm) h <sub>3</sub> (mm)		125 265		225 265		225		225 265	4.2
4.4	Height of mast extended (unloaded)	h <sub>3</sub> (mm)		260		355		355		355	4.4
4.7	Cab height (open module)	h <sub>6</sub> (mm)	33	385	3	455	3 -	455		455	4.7
4.8	Seat height (Seat Index Point, ISO 5353)	h <sub>7</sub> (mm)		245		315		315		315	4.8
4.12 4.19	Coupling height Overall length	h <sub>10</sub> (mm) I <sub>1</sub> (mm)		975		030		D30 D60		030	4.12 4.19
4.19	Length to face of forks	l <sub>1</sub> (mm)		535		620		620		130	4.19
4.21	Overall width truck	b <sub>2</sub> (mm)	31	225	3	380	3	380	3:	380	4.21
4.22	Fork dimensions	s/e/l (mm)		80 2 440		00 2 440		00 2 440		00 2 440	4.22
SNO 4.23	Carriage type			Dual-function orkpositioning		Dual-function orkpositioning		Dual-function orkpositioning		Dual-function orkpositioning	4.23
SNOISNEWID	Carriage width	b <sub>3</sub> (mm)		000		180		180		180	4.23 0 MENSIONS
DIM	Width over the forks min. / max.,		-) 4 420	-) 0.070	-) 4 490	-) 0.440	-) 4 400	-) 2.440	-) 4 400	-) 2.440	SNC
4.25	<ul> <li>a) Standard Fork Positioning, with cyls in outer position</li> <li>a) Standard Fork Positioning, with cyls in inner position</li> </ul>	b <sub>5</sub> (mm)	a) 1 430 a) 880	a) 2 970 a) 2 420	a) 1 480 a) 930	a) 3 140 a) 2 590	a) 1 480 a) 930	a) 3 140 a) 2 590	a) 1 480 a) 930	a) 3 140 a) 2 590	4.25
	<li>b) Optional 'Zero in-to-in' Fork Positioning, with cyls in outer position</li>		<ul> <li>b) 970</li> <li>b) 560</li> </ul>	b) 2 970	b) 1 020	b) 3 140	b) 1 020	b) 3 140	b) 1 020 b) 600	b) 3 140	
4,30	<ul> <li>b) Optional 'Zero in-to-in' Fork Positioning, with cyls in inner position</li> <li>Sideshift @ width over forks</li> </ul>	b <sub>8</sub> b <sub>5</sub> (mm)	+/- 385	b) 2 420 2 200	b) 600 +/- 415	b) 2 590 2 310	b) 600 +/- 415	b) 2 590 2 310	+/- 415	b) 2 590 2 310	4.30
4.31	Ground clearance under mast, with load	m <sub>1</sub> (mm)		75		75		75		75	4.31
4,32	Ground clearance, centre of wheelbase	m <sub>2</sub> (mm)		165		40		40		40	4.32
4.33	Stacking Aisle, without operating clearance (load size 2 440 mm W x 2 440 mm L)	V (mm)		010		010		010		560 760	4.33
4.00	Stacking Aisle, with 200 mm operating clearance (load size 2 440 mm W x 2 440 mm L) Stacking Aisle, with 10% operating clearance (load size 2 440 mm W x 2 440 mm L)	Ast (mm) Ast (mm)		790		885		885		615	4.55
4.35	Turning radius	W <sub>a</sub> (mm)		185		185		185		848	4.35
4.36	Internal turning radius	b <sub>13</sub> (mm)	9	)77	8	99	8	99	1:	323	4.36
5.1	Travel speed with / without load	km/h	26	27	25	26	25	26	25	26	5.1
5.2	Lifting speed with / without load - with 230 Hp engine	m/sec	0,30	0,35		0,29		0,29	20	0,29	0.1
			0,50	0,35	0,25		0,25	0,20	0,25		5.2
	Lifting speed with / without load - with 264 Hp engine	m/sec	0,34	0,35	0,28	0,29	0,28	0,29	0,28	0,29	
5.2a	Lifting speed with 70 % load - with 230 Hp engine	m/sec m/sec	0,34 T.I	0,35 B,D	0,28 T.	0,29 B,D	0,28 T.	0,29 B,D	0,28 T,I	0,29 B.D	5.2 5.2a
	Lifting speed with 70 % load - with 230 Hp engine Lifting speed with 70 % load - with 264 Hp engine	m/sec m/sec m/sec	0,34 T.I	0,35 B.D B.D	0,28 T. T.	0,29 B.D B.D	0,28 T. T.	0,29 B.D B.D	0,28 T.I T.I	0,29 B.D B.D	5.2a
	Lifting speed with 70 % load - with 230 Hp engine	m/sec m/sec	0,34 T.I	0,35 B,D	0,28 T.	0,29 B,D	0,28 T.	0,29 B,D	0,28 T,I	0,29 B.D	5.2a
	Lifting speed with 70 % load - with 230 Hp engine Lifting speed with 70 % load - with 264 Hp engine Lowering speed with / without load	m/sec m/sec m/sec kN kN	0,34 T,1 0,50 140 161	0,35 B.D B.D 0,50 130 130	0,28 T. T. 0,50 141 162	0,29 B.D B.D 0,50 146 154	0,28 T. T. 0,50 141 161	0,29 B.D 0,50 146 154	0,28 T.I 0,50 140 161	0,29 B.D 0,50 146 158	5.2a
	Lifting speed with 70 % load - with 230 Hp engine Lifting speed with 70 % load - with 264 Hp engine Lowering speed with / without load Drawbar pul with / without load @ 1.6 km/hr - with 230 Hp engine ◆ Drawbar pul With / without load @ 1.6 km/hr - with 264 Hp engine ◆ Max. drawbar pull with / without load - with 230 Hp engine ◆	m/sec m/sec m/sec kN kN kN kN	0,34 T.I 0,50 140 161 176	0,35 B,D 0,50 130 130 130	0,28 T. 7. 0,50 141 162 177	0,29 B,D 0,50 146 154 154	0,28 T. 0,50 141 161 176	0,29 B,D 0,50 146 154 154	0,28 T.I 0,50 140 161 176	0,29 B,D 0,50 146 158 158	5.2a
5.3 5.5 5.6 5.6	Lifting speed with 70 % load - with 230 Hp engine Lifting speed with 70 % load - with 264 Hp engine Lowering speed with / without load Drawbar pull with / without load @ 1.6 km/hr - with 230 Hp engine ◆ Drawbar pull with / without load @ 1.6 km/hr - with 264 Hp engine ◆ Max. drawbar pull with / without load - with 230 Hp engine ◆ Max. drawbar pull with / without load - with 254 Hp engine ◆	m/sec m/sec m/sec kN kN kN kN	0,34 T,1 0,50 140 161 176 200	0,35 B,D 0,50 130 130 130 130 130	0,28 T. 0,50 141 162 177 202	0,29 B,D B,D 0,50 146 154 154 154 154	0,28 T, 0,50 141 161 176 201	0,29 B.D 0,50 146 154 154 154	0,28 T,I 0,50 140 161 176 201	0,29 B,D B,D 0,50 146 158 158 158	5.2a 5.3 5.5 5.6 5.6
	Lifting speed with 70 % load - with 230 Hp engine Lifting speed with 70 % load - with 264 Hp engine Lowering speed with / without load Drawbar pul with / without load @ 1.6 km/hr - with 230 Hp engine ◆ Drawbar pul With / without load @ 1.6 km/hr - with 264 Hp engine ◆ Max. drawbar pull with / without load - with 230 Hp engine ◆	m/sec m/sec m/sec kN kN kN kN	0,34 T.I 0,50 140 161 176	0,35 B,D 0,50 130 130 130	0,28 T. 7. 0,50 141 162 177	0,29 B,D 0,50 146 154 154	0,28 T. 0,50 141 161 176	0,29 B,D 0,50 146 154 154	0,28 T.I 0,50 140 161 176	0,29 B,D 0,50 146 158 158	5.2a
5.3 5.5 5.6 5.6	Lifting speed with 70 % load - with 230 Hp engine Lifting speed with 70 % load - with 264 Hp engine Lovering speed with / without load Drawbar pull with / without load @ 1,6 km/hr - with 230 Hp engine ◆ Drawbar pull with / without load @ 1,6 km/hr - with 264 Hp engine ◆ Max. drawbar pull with / without load - with 230 Hp engine ◆ Gradeablity with / without load @ 1,6 km/hr - with 264 Hp engine ↑ Gradeablity with / without load @ 1,6 km/hr - with 264 Hp engine ↑ Gradeablity with / without load @ 1,6 km/hr - with 264 Hp engine ↑ Gradeablity with / without load @ 1,6 km/hr - with 264 Hp engine ↑ Gradeablity with / without load @ 1,6 km/hr - with 264 Hp engine ↑	m/sec m/sec kN kN kN kN kN %	0.34 T.I. 0.50 140 161 176 200 23 27 29	0.35 B.D B.D 130 130 130 130 130 27 27 27 27	0,28 T, 0,50 141 162 177 202 20 23 26	0,29 B.D B.D 0,50 146 154 154 26 26 26 26	0,28 T. 0,50 141 161 176 201 19 22 25	0,29 B.D B.D 0,50 146 154 154 27 27 27 27	0,28 T.J 0,50 140 161 176 201 19 22 24	0,29 B.D B.D 0,50 146 158 158 158 27 27 27 27	5.2a 5.3 5.5 5.6 5.6
5.3 5.5 5.5 5.6 5.6 5.7 5.8	Lifting speed with 70 % load - with 230 Hp engine Lifting speed with 70 % load - with 264 Hp engine Lowering speed with / without load @ Drawbar pull with / without load @ 1.6 km/hr - with 230 Hp engine ◆ Drawbar pull with / without load @ 1.6 km/hr - with 264 Hp engine ◆ Max. drawbar pull with / without load - with 230 Hp engine ◆ Max. drawbar pull with / without load - with 230 Hp engine ◆ Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 24 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 24 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 24 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 24 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 24 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 24 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 24 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 24 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 24 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 24 Hp engine ↑	m/sec m/sec m/sec kN kN kN kN kN kN %	0,34 T.1 0,50 140 161 200 23 27 29 34	0.35 B.D B.D 130 130 130 130 27 27 27 27 27 27 27	0,28 T, 0,50 141 162 177 202 20 23 23 26 29	0,29 B.D D.D 146 154 154 26 26 26 26 26 26	0,28 T. 0,50 141 161 201 19 22 25 28	0,29 B,D B,D 0,50 146 154 154 27 27 27 27 27 27 27	0,28 T.J 0,50 140 161 176 201 19 22 24 24 27	0,29 B.D D,50 146 158 158 27 27 27 27 27 27	5.2a 5.3 5.5 5.6 5.6 5.7 5.7 5.8
5.3 5.5 5.6 5.6 5.7 5.7	Lifting speed with 70 % load - with 230 Hp engine Lifting speed with 70 % load - with 264 Hp engine Lovering speed with / without load Drawbar pull with / without load @ 1,6 km/hr - with 230 Hp engine ◆ Drawbar pull with / without load @ 1,6 km/hr - with 264 Hp engine ◆ Max. drawbar pull with / without load - with 230 Hp engine ◆ Gradeablity with / without load @ 1,6 km/hr - with 264 Hp engine ↑ Gradeablity with / without load @ 1,6 km/hr - with 264 Hp engine ↑ Gradeablity with / without load @ 1,6 km/hr - with 264 Hp engine ↑ Gradeablity with / without load @ 1,6 km/hr - with 264 Hp engine ↑ Gradeablity with / without load @ 1,6 km/hr - with 264 Hp engine ↑	m/sec m/sec kN kN kN kN kN %	0,34 T.1 0,50 140 161 200 23 27 29 34	0.35 B.D B.D 130 130 130 130 130 27 27 27 27	0,28 T, T, 0,50 141 162 177 202 20 23 23 26 29	0,29 B.D B.D 0,50 146 154 154 26 26 26 26	0,28 T. 0,50 141 161 201 19 22 25 28	0,29 B.D B.D 0,50 146 154 154 27 27 27 27	0,28 T.J 0,50 140 161 176 201 19 22 24 24 27	0,29 B.D B.D 0,50 146 158 158 158 27 27 27 27	5.2a 5.3 5.5 5.6 5.6 5.7
5.3 5.5 5.5 5.6 5.6 5.7 5.8	Lifting speed with 70 % load - with 230 Hp engine Lifting speed with 70 % load - with 264 Hp engine Lowering speed with / without load @ Drawbar pull with / without load @ 1.6 km/hr - with 230 Hp engine ◆ Drawbar pull with / without load @ 1.6 km/hr - with 264 Hp engine ◆ Max. drawbar pull with / without load - with 230 Hp engine ◆ Max. drawbar pull with / without load - with 230 Hp engine ◆ Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 24 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 24 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 24 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 24 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 24 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 24 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 24 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 24 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 24 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 24 Hp engine ↑	m/sec m/sec kN kN kN kN kN %	0,34 T.1 0,50 140 161 200 23 27 29 34	0.35 B.D D.D 130 130 130 130 27 27 27 27 27 27 27	0,28 T, T, 0,50 141 162 177 202 20 23 23 26 29	0,29 B.D D.D 146 154 154 26 26 26 26 26 26	0,28 T. 0,50 141 161 201 19 22 25 28	0,29 B,D B,D 0,50 146 154 154 27 27 27 27 27 27 27	0,28 T.J 0,50 140 161 176 201 19 22 24 24 27	0,29 B.D D,50 146 158 158 27 27 27 27 27 27	5.2a 5.3 5.5 5.6 5.6 5.7 5.7 5.8
5.3 5.5 5.6 5.6 5.7 5.8 5.10 7.1	Lifting speed with 70 % load - with 230 Hp engine Lifting speed with 70 % load - with 264 Hp engine Lowering speed with 70 % load - with 264 Hp engine Lowering speed with / without load @ 1.6 km/hr - with 230 Hp engine ◆ Drawbar pull with / without load @ 1.6 km/hr - with 284 Hp engine ◆ Max. drawbar pull with / without load = with 284 Hp engine ◆ Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 244 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 244 Hp engine ↑ Gradeability with / without load @ stall - with 264 Hp engine ↑ Service brake Engine manufacturer / bype Engine output according to ISO 1585:	m/sec m/sec m/sec kN kN kN kN % % %	0,34 T,1 0,50 140 161 176 200 23 27 29 34 Oil immerse Cummins	0,35 B,D B,D 130 130 130 130 27 27 27 27 27 27 27 27 27 27 27 QSC 8,3	0,28 T, T, 0,50 141 162 177 202 20 23 26 29 Oil immerse Cummins	0,29 B,D B,D 146 154 154 26 26 26 26 26 26 26 26 26 26	0,28 T, 0,50 141 161 201 19 22 25 28 Oli immerse Cummins	0,29 B,D B,D 146 154 154 27 27 27 27 27 27 27 27 27 27 27 27 27	0,28 T,J T,J 0,50 140 161 176 201 19 22 24 27 Oil immerse Cummins	0,29 B,D 146 158 158 27 27 27 27 27 27 27 27 27 27	5.2a 5.3 5.5 5.6 5.6 5.7 5.7 5.8 5.10
5.3 5.5 5.6 5.6 5.6 5.6 5.7 5.7 5.8 5.10 7.1 7.2	Lifting speed with 70 % load - with 230 Hp engine Lifting speed with 70 % load - with 264 Hp engine Lowering speed with 70 % load - with 264 Hp engine Lowering speed with / without load @ 1.6 km/hr - with 230 Hp engine ◆ Drawbar plul with / without load @ 1.6 km/hr - with 284 Hp engine ◆ Max. drawbar pull with / without load @ 1.6 km/hr - with 230 Hp engine ◆ Max. drawbar pull with / without load @ 1.6 km/hr - with 230 Hp engine ◆ Gradebablity with / without load @ 1.6 km/hr - with 230 Hp engine ↑ Gradebablity with / without load @ 1.6 km/hr - with 230 Hp engine ↑ Gradebablity with / without load @ 1.6 km/hr - with 230 Hp engine ↑ Gradebablity with / without load @ 1.6 km/hr - with 230 Hp engine ↑ Gradebablity with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradebablity with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradebablity with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradebablity with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradebablity with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradebablity with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradebablity with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradebablity with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradebablity with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradebablity with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradebablity with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradebablity with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradebablity with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradebablity with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradebablity with / without load @ 1.6 km/hr - with 264 Hp engine ↑ For standard engine * Max. Can prove the prove t	m/sec m/sec kN kN kN kN kN %	0,34 T,1 0,50 140 161 176 200 23 27 29 34 Oil immerse Cummins 230 Hp (172 kW)	0.35 B.D B.D 130 130 130 130 27 27 27 27 27 27 27 27 27 27 27	0,28 T, 0,50 141 162 202 23 26 29 Oli immerse Cummins 230 Hp (172 kW)	0,29 B.D B.D 146 154 154 26 26 26 26 26 26 d wet discs' QSC 8.3 215 Hp (160 kW)	0,28 T, 0,50 141 161 176 201 19 22 25 28 Oli immerse Cummins 230 Hp (172 kW)	0,29 B,D B,D 146 154 154 27 27 27 27 27 27 27 27 27 27 4 d wet discs'	0,28 T,1 0,50 140 161 176 201 19 22 24 27 Oli immerse Cummins 230 Hp (172 kW)	0,29 B,D B,D 146 158 158 27 27 27 27 27 27 27 27 27 27 27 27 3d Wet discs'	5.2a 5.3 5.5 5.6 5.7 5.7 5.8 5.10 7.1 7.2
5.3 5.5 5.6 5.6 5.6 5.6 5.7 5.7 5.8 5.10 7.1 7.2	Lifting speed with 70 % load - with 230 Hp engine Lifting speed with 70 % load - with 264 Hp engine Lowering speed with 70 % load - with 264 Hp engine Lowering speed with / without load Drawbar pull with / without load @ 1.6 km/hr - with 230 Hp engine ◆ Drawbar pull with / without load @ 1.6 km/hr - with 284 Hp engine ◆ Max. drawbar pull with / without load @ 1.6 km/hr - with 284 Hp engine ◆ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ stall - with 284 Hp engine ↑ Service brake Engine manufacturer / type Engine manufacturer / type Engine with according to ISO 1585: For standard engine: Maximum @ 2.000 rpm / Nominal @ max 2.200 rpm For optional engine: Maximum @ 2.000 rpm / Nominal @ max 2.200 rpm Maximum engine torque - Standard 230 Hp engine	m/sec m/sec kN kN kN kN kN kN kN kN kN kN kN kW	0,34 T,1 0,50 140 161 176 200 23 27 29 34 Oil immerse Cummins 230 Hp (172 kW) 264 Hp (197 kW) 915 Km @ 90	0,35 B,D B,D 130 130 130 130 27 27 27 27 27 27 27 27 27 27 27 27 27	0,28 T, 0,50 141 162 177 202 20 23 26 29 Oil immerse Cummins 230 Hp (172 kW) 264 Hp (197 kW) 915 Nm @ 9	0,29 B,D B,D 146 154 154 26 26 26 26 26 26 26 26 26 26	0,28 T, 0,50 141 161 176 201 19 22 25 28 Oil immerse Cummins 230 Hp (172 kW) 915 Nm @ 91	0,29 B,D B,D 146 154 154 27 27 27 27 27 27 27 27 27 27	0,28 T,1 T,1 10,50 140 161 176 201 19 22 24 27 Oll immerse Cummins 230 Hp (172 kW) 264 Hp (197 kW) 915 Nm @ 90	0,29 B,D B,D 146 158 158 27 27 27 27 27 27 27 27 27 27	5.2a 5.3 5.5 5.6 5.7 5.7 5.8 5.10 7.1 7.2
5.3 5.5 5.6 5.6 5.7 5.8 5.7 5.10 7.1 7.2 7.2.1	Lifting speed with 70 % load - with 230 Hp engine Lifting speed with 70 % load - with 264 Hp engine Lowering speed with 70 % load - with 264 Hp engine Lowering speed with / without load @ 1.6 km/hr - with 230 Hp engine ◆ Drawbar pull with / without load @ 1.6 km/hr - with 284 Hp engine ◆ Max. drawbar pull with / without load @ 1.6 km/hr - with 284 Hp engine ◆ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 280 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 2.000 rpm / Nominal @ max 2.200 rpm For optional engine: Maximum @ 2.000 rpm / Nominal @ max 2.200 rpm Maximum engine torque < Optional 284 Hp engine	m/sec m/sec m/sec kN kN kN kN % % % % % % % % % % % % % %	0,34 T,1 0,50 140 161 176 200 23 27 29 34 Oll immerse 200 23 27 29 34 Oll immerse 230 Hp (172 kW) 264 Hp (197 kW) 264 Hp (197 kW) 9 11 25 Nm ()	0.35 B.D B.D 130 130 130 130 130 27 27 27 27 27 27 27 27 27 27 27 27 27	0,28 T, 0,50 141 162 177 202 20 23 26 29 Oli immerse Cummins 230 Hp (172 kW) 264 Hp (197 kW) 961 S Nm @ 9 1125 Nm (	0,29 B,D B,D 146 154 154 26 26 26 26 26 26 26 28 3d Wet discs' 250 Hp (186 kW) 05 - 1500 rpm 29 1 500 rpm	0,28 T, 0,50 141 161 176 201 19 22 25 28 Oli immerse Cummins 230 Hp (172 kW) 264 Hp (197 kW) 915 Nm @9 1125 Nm (	0,29 B,D B,D 146 154 154 27 27 27 27 27 27 27 27 d Wet discs' 250 Hp (186 kW) 250 Hp (186 kW)	0,28 T,1 T,1 0,50 140 161 176 201 19 22 24 27 Oll immerse 230 Hp (172 kW) 264 Hp (197 kW) 91 5 Nm @ 91 1 125 Nm ()	0,29 B,D B,D 146 158 158 158 27 27 27 27 27 27 27 27 27 27	5.2a 5.3 PERFORMANCE 5.5 5.6 5.7 5.7 5.8 5.8 5.10 7.1 7.2 7.2.1
5.3 5.5 5.6 5.6 5.6 5.0 5.10 7.2 7.2 7.2 7.2 7.2 7.2 7.2	Liffing speed with 70 % load - with 230 Hp engine Liffing speed with 70 % load - with 264 Hp engine Lowering speed with 70 % load - with 264 Hp engine Lowering speed with / without load @ 1.6 km/hr - with 230 Hp engine ◆ Drawbar plul with / without load @ 1.6 km/hr - with 284 Hp engine ◆ Max. drawbar pull with / without load @ 1.6 km/hr - with 284 Hp engine ◆ Max. drawbar pull with / without load @ 1.6 km/hr - with 284 Hp engine ◆ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - without load @	m/sec m/sec kN kN kN kN kN kN kN kN % % % % % kW kW kW	0,34 T,1 0,50 140 161 176 200 23 27 29 34 Oil immerse Cummins 230 Hp (172 kW) 264 Hp (197 kW) 915 Nm @ 9 1125 Nm (	0.35 B.D B.D 130 130 130 130 27 27 27 27 27 27 27 27 27 27 27 27 27	0,28 T, 0,50 141 162 177 202 20 23 26 29 Oli immerse Cummins 230 Hp (172 kW) 264 Hp (197 kW) 961 S Nm @ 9 1125 Nm (	0,29 B.D B.D 146 154 154 26 26 26 26 26 26 26 26 26 26 26 26 26	0,28 T, 0,50 141 161 176 201 19 22 25 28 Oil immerse Cummins 230 Hp (172 kW) 264 Hp (197 kW) 915 Nm (9) 91 S Nm (2) 25 S m (2) 26 Km (2) 27 Km (2) 28 Km (2) 20 Km (2) 28 Km (2)	0,29 B,D B,D 146 154 154 27 27 27 27 27 27 27 27 27 27 27 27 27	0,28 T,1 T,1 0,50 140 161 176 201 19 22 24 24 27 Oil immerse Cummins 230 Hp (172 kW) 264 Hp (197 kW) 915 Nm @ 9 1 125 Nm ( 23	0,29 B.D B.D 146 158 158 27 27 27 27 27 27 27 27 27 27 27 27 27	5.2a 5.3 5.5 5.6 5.7 5.7 5.8 7.1 7.2 7.2 7.3
5.3 5.5 5.6 5.6 5.7 5.8 5.7 5.10 7.1 7.2 7.2.1	Lifting speed with 70 % load - with 230 Hp engine Lifting speed with 70 % load - with 264 Hp engine Lowering speed with 70 % load - with 264 Hp engine Lowering speed with / without load @ 1.6 km/hr - with 230 Hp engine ◆ Drawbar pull with / without load @ 1.6 km/hr - with 284 Hp engine ◆ Max. drawbar pull with / without load @ 1.6 km/hr - with 284 Hp engine ◆ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 280 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 2.000 rpm / Nominal @ max 2.200 rpm For optional engine: Maximum @ 2.0000 rpm / Nominal @ max 2.200 rpm Maximum engine torque < Optional 284 Hp engine	m/sec m/sec m/sec kN kN kN kN % % % % % % % % % % % % % %	0,34 T,1 0,50 140 161 176 200 23 27 29 34 Oil immerse 20 0il immerse 23 44 pp (172 kW) 264 Hp (177 kW) 264 Hp (177 kW) 915 Nm @ 90 1 125 Nm @ 2 2 6	0.35 B.D B.D 130 130 130 130 130 27 27 27 27 27 27 27 27 27 27 27 27 27	0,28 T, 0,50 141 162 177 202 20 23 26 29 Oil immerse Cummins 230 Hp (172 kW) 264 Hp (177 kW) 264 Hp (177 kW) 915 Nm @ 9 1 125 Nm (2 6 6	0,29 B,D B,D 146 154 154 26 26 26 26 26 26 26 28 3d Wet discs' 250 Hp (186 kW) 05 - 1500 rpm 29 1 500 rpm	0,28 T, 0,50 141 161 176 201 19 22 25 28 Oil immerse Cummins 230 Hp (172 kW) 264 Hp (197 kW) 915 Nm @ 9 1125 Nm ( 2: 6	0,29 B,D B,D 146 154 154 27 27 27 27 27 27 27 27 d Wet discs' 250 Hp (186 kW) 250 Hp (186 kW)	0,28 T.J T.T 10,50 140 161 201 19 22 24 27 Oil immerse 230 Hp (172 kW) 915 Nm @ 90 1 125 Nm @ 12 2 KM ng 2 2 6	0,29 B,D B,D 146 158 158 158 27 27 27 27 27 27 27 27 27 27	5.2a 5.3 PERFORMANCE 5.5 5.6 5.7 5.7 5.8 5.8 5.10 7.1 7.2 7.2.1
5.3 5.5 5.5 5.6 5.6 5.7 5.8 5.8 5.10 7.1 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	Lifting speed with 70 % load - with 230 Hp engine Lifting speed with 70 % load - with 264 Hp engine Lowering speed with 70 % load - with 264 Hp engine Lowering speed with / without load @ 1.6 km/hr - with 230 Hp engine ◆ Drawbar pull with / without load @ 1.6 km/hr - with 284 Hp engine ◆ Max. drawbar pull with / without load @ 1.6 km/hr - with 284 Hp engine ◆ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 280 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 280 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ stall - with 284 Hp engine ↑ Gradeability with / without load @ stall - with 284 Hp engine ↑ Gradeability with / without load @ 2.000 rpm / Nominal @ max 2.200 rpm For optional engine: Maximum @ 2.0000 rpm / Nominal @ max 2.200 rpm For optional engine: Valaximum @ 2.000 rpm / Nominal @ max 2.200 rpm Governed speed Number of cylinders / displacement Fuel consumption in accordance to VD1	m/sec m/sec kN kN kN kN % % % % % % % % % % % % % %	0,34 T,1 0,50 140 161 176 200 23 27 29 34 Oil Immerse 230 Hp (172 kW) 264 Hp (197 kW) 91 125 Nm ( 25 Cmmins 200 Hp (172 kW) 264 Hp (197 kW) 264 Hp (197 kW) 265 Hp (197 kW) 275 Hp (197 kW) 27	0.35 B.D B.D 130 130 130 130 130 27 27 27 27 27 27 27 27 27 27 27 27 27	0,28 T, T, 0,50 141 162 177 202 20 23 26 29 Oil immerse Cummins 230 Hp (172 kW) 264 Hp (197 kW) 915 Nm @ 9 1125 Nm ( 2 6 5 5 5 5 5 5 5 5 5 5 5 5 5	0,29 B,D B,D 146 154 154 26 26 26 26 26 26 26 26 26 26 26 26 26	0,28 T, T, 0,50 141 161 176 201 19 22 25 28 Oil immerse Cummins 230 Hp (172 kW) 264 Hp (197 kW) 915 Nm @ 91 1125 Nm ( 2 6	0,29 B,D B,D 146 154 154 27 27 27 27 27 27 27 27 27 27 27 27 27	0,28 T,1 T,1 0,50 140 161 19 22 24 27 Oil immerse 230 Hp (172 kW) 264 Hp (197 kW) 915 Nm @ 9( 1 125 Nm ( 2 6	0,29 B,D B,D 146 158 158 27 27 27 27 27 27 27 27 27 27 27 27 27	5.2a 5.3 5.5 5.5 5.6 5.7 5.8 5.10 7.1 7.2 7.2.1 7.2.1 7.2.1 7.3 7.4 7.5
5.3 5.5 5.6 5.6 5.6 5.7 5.8 5.10 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	Liffing speed with 70 % load - with 230 Hp engine Liffing speed with 70 % load - with 264 Hp engine Lowering speed with 70 % load - with 264 Hp engine Lowering speed with / without load @ 1.6 km/hr - with 230 Hp engine ◆ Drawbar pull with / without load @ 1.6 km/hr - with 284 Hp engine ◆ Max. drawbar pull with / without load @ 1.6 km/hr - with 284 Hp engine ◆ Max. drawbar pull with / without load @ 1.6 km/hr - with 284 Hp engine ◆ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 2.000 rpm / Noninal @ max 2.000 rpm For optional engine: Maximum @ 2.000 rpm / Noninal @ max 2.200 rpm For optional engine: Value @ 2.000 rpm / Noninal @ max 2.200 rpm Governed speed Number of cylinders / displacement Fuel consumption in accordance to VDI Drive control	m/sec m/sec m/sec kN kN kN kN kN kN % % % % % % % % % % %	0,34 T,1 0,50 140 161 176 200 23 27 29 34 Oil immerse Cummins 230 Hp (172 kW) 264 Hp (197 kW) 91 5 Mm @ 92 1125 Nm (197 kW) 91 5 Mm (197 kW	0.35 B.D B.D 130 130 130 130 27 27 27 27 27 27 27 27 27 27 27 27 27	0,28 T, 0,50 141 162 177 202 20 23 26 29 Oil immerse Cummins 230 Hp (172 kW) 264 Hp (197 kW) 91 5 Nm (9) 91 125 Nm ( 26 5 Nm (172 kW) 91 5 Nm (9) 125 Nm ( 26 5 Nm (172 kW) 125 Nm ( 26 5 Nm (172 kW) 26 5 Nm (172 kW) 27 5 Nm (172	0,29 B.D B.D 146 154 154 26 26 26 26 26 26 26 26 26 26 26 26 26	0,28 T, 0,50 141 161 176 201 19 22 25 28 Oil immerse Cummins 230 Hp (172 kW) 264 Hp (197 kW) 915 Nm (9) 91 125 Nm ( 23 6 1 Torque I	0,29 B,D B,D 146 154 154 27 27 27 27 27 27 27 27 27 27 27 27 27	0,28 T, T, 0,50 140 161 176 201 19 22 24 27 Oli immerse Cummins 230 Hp (172 kW) 264 Hp (197 kW) 915 Nm @ 93 1 125 Nm ( 23 6 5 7 7	0,29 B,D B,D 146 158 158 158 27 27 27 27 27 27 27 27 27 27	5.2a 5.3 5.5 5.6 5.6 5.7 5.8 5.8 5.8 5.8 5.10 7.1 7.2 7.2,1 7.2,1 7.3 7.4 7.5
5.3 5.5 5.5 5.6 5.6 5.7 5.7 5.7 5.7 5.8 5.10 7.2 7.2 7.2 7.2 7.2 7.3 7.4 7.5 8 1 8.1 7.5	Liffing speed with 70 % load - with 230 Hp engine Liffing speed with 70 % load - with 264 Hp engine Lowering speed with 70 % load - with 264 Hp engine Lowering speed with / without load @ 1.6 km/hr - with 230 Hp engine ◆ Drawbar pull with / without load @ 1.6 km/hr - with 230 Hp engine ◆ Max. drawbar pull with / without load @ 1.6 km/hr - with 230 Hp engine ◆ Max. drawbar pull with / without load @ 1.6 km/hr - with 230 Hp engine ◆ Max. drawbar pull with / without load @ 1.6 km/hr - with 230 Hp engine ◆ Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 2.00 pm / Nominal @ max 2.200 pm For optional engine: Maximum @ 2.000 pm / Nominal @ max 2.200 pm For optional engine: Maximum @ 2.000 pm / Nominal @ max 2.200 pm Maximum engine lorque - Optional 264 Hp engine Governed Speed Number of cylinders / displacament Fuel consumption in accordance to VD1 Drive control Working pressure for attachments	m/sec m/sec kN kN kN kN % % % % % % % % % % % % % %	0,34 T.1 0,50 140 161 176 200 23 27 29 34 Oil immerse 20 Oil immerse 20 Oil immerse 23 Hp (172 kW) 26 Hp (177 kW) 27 Torque ( 27 Tor	0.35 B.D B.D 130 130 130 130 130 27 27 27 27 27 27 27 27 27 27 27 27 27	0,28 T, 0,50 141 162 177 202 20 23 26 29 Oil immerse 230 Hp (172 kW) 264 Hp (177 kW) 915 Nm @ 9 1125 Nm (2 6 Torque 20	0,29 B,D B,D 146 154 154 26 26 26 26 26 26 26 26 26 26	0,28 T, T, 0,50 141 161 176 201 19 22 25 28 Oil immerse 230 Hp (172 kW) 264 Hp (197 kW) 915 Nm @ 9 1125 Nm ( 21 6 Torque ( 22	0,29 B,D B,D 146 154 154 27 27 27 27 27 27 27 27 27 27 27 27 27	0,28 T.J T.J 0,50 140 161 201 19 22 24 27 Oil immerse 230 Hp (172 kW) 264 Hp (177 kW) 915 Nm @ 90 1 125 Nm @ 2 2 2 6 5 5 7 0 125 Nm @ 10 2 125 Nm @ 10 Nm @ 10 2 125 Nm @ 10	0,29 B,D B,D 146 158 158 27 27 27 27 27 27 27 27 27 27 27 27 27	5.2a 5.3 5.5 5.5 5.6 5.6 5.7 5.8 5.8 5.10 7.1 7.2 7.2 7.2 7.3 7.4 7.5 8.1 8.2
5.3 5.5 5.6 5.6 5.6 5.7 5.8 5.10 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	Liffing speed with 70 % load - with 230 Hp engine Liffing speed with 70 % load - with 264 Hp engine Lowering speed with 70 % load - with 264 Hp engine Lowering speed with / without load @ 1.6 km/hr - with 230 Hp engine ◆ Drawbar pull with / without load @ 1.6 km/hr - with 284 Hp engine ◆ Max. drawbar pull with / without load @ 1.6 km/hr - with 284 Hp engine ◆ Max. drawbar pull with / without load @ 1.6 km/hr - with 284 Hp engine ◆ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeablily with / without load @ 2.000 rpm / Noninal @ max 2.000 rpm For optional engine: Maximum @ 2.000 rpm / Noninal @ max 2.200 rpm For optional engine: Value @ 2.000 rpm / Noninal @ max 2.200 rpm Governed speed Number of cylinders / displacement Fuel consumption in accordance to VDI Drive control	m/sec m/sec m/sec kN kN kN kN kN kN % % % % % % % % % % %	0,34 T,1 0,50 140 161 176 200 23 27 29 34 Oil immerse Cummins 230 Hp (172 kW) 264 Hp (197 kW) 915 Nm @ 91 1125 Nm @ 12 6 1 Torque ( 2 7 7 7 7 7 7 7 7 7 7 7 7 7	0,35 B.D B.D 130 130 130 130 27 27 27 27 27 27 27 27 27 27 27 27 27	0,28 T, 0,50 141 162 177 202 20 23 26 29 Oil immerse Cummins 230 Hp (172 kW) 264 Hp (177 kW) 915 Nm @ 9 1 125 Nm ( 2 6 5 5 5 5 5 5 5 5 5 5 5 5 5	0,29 B.D B.D 146 154 154 26 26 26 26 26 26 26 26 26 26 26 26 26	0,28 T, T, 0,50 141 161 176 201 19 22 25 28 Oil immerse Cummins 230 Hp (172 kW) 915 Nm @ 91 1125 Nm @ 9 1 125 N	0,29 B,D B,D 146 154 154 27 27 27 27 27 27 27 27 27 27	0,28 T,1 T,1 0,50 140 161 176 201 19 22 24 27 Oil immerse Cummins 230 Hp (172 kW) 915 Nm @ 91 125 Nm @ 92 6 5 Cummins 23 125 Nm @ 92 125 Nm @ 92 Nm @ 92	0,29 B,D B,D 146 158 158 158 27 27 27 27 27 27 27 27 27 27	5.2a 5.3 5.5 5.6 5.6 5.7 5.8 5.8 5.8 5.8 5.10 7.1 7.2 7.2,1 7.2,1 7.3 7.4 7.5
5.3 5.5 5.6 5.6 5.7 5.7 5.8 5.8 5.10 7.1 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	Lifting speed with 70 % load - with 230 Hp engine Lifting speed with 70 % load - with 264 Hp engine Lowering speed with 70 % load - with 264 Hp engine Lowering speed with / without load @ 1.6 km/hr - with 230 Hp engine ◆ Drawbar pull with / without load @ 1.6 km/hr - with 264 Hp engine ◆ Max. drawbar pull with / without load @ 1.6 km/hr - with 264 Hp engine ◆ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine Engine manufacturer / type Engine waxiarum @ 2.000 rpm / Nominal @ max 2.200 rpm Kaximum engine torque - Standard 230 Hp engine Governed speed Number of cylinders / displacement Fuel consumption in accordance to VDI Drive control Working pressure for attachments Oil flow for auxiliary functions	m/sec m/sec kN kN kN kN % % % % % % % % % % % % % %	0,34 T,1 0,50 140 161 176 200 23 27 29 34 Oil Immerse 230 Hp (172 kW) 24 Hp (197 kW) 91 125 Nm (1 23 1125 Nm (1 23 127 7 7 7 7 7 7 7 7 7 7 7 7 7	0,35 B.D B.D 130 130 130 130 27 27 27 27 27 27 27 27 27 27 27 27 27	0,28 T, T, T, 0,50 141 162 177 202 20 23 26 29 Oil immerse Cummins 230 Hp (172 kW) 264 Hp (197 kW) 915 Nm @ 9 1125 Nm ( 2 6 5 7 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7	0,29 B,D B,D 146 154 154 26 26 26 26 26 26 26 26 26 26	0,28 T, T, 0,50 141 161 176 201 19 22 25 28 Oil immerse Cummins 230 Hp (172 kW) 264 Hp (197 kW) 915 Nm @ 91 1125 Nm ( 2 6 5 5 5 6 5 5 5 5 5 5 5 5 5 5 5 5 5	0,29 B,D B,D 146 154 154 27 27 27 27 27 27 27 27 27 27	0,28 T,1 T,1 0,50 140 161 19 22 24 27 Oil immerse 230 Hp (172 kW) 264 Hp (197 kW) 915 Nm @ 91 1125 Nm ( 2 6 5 7 7 7 7 7 7	0,29 B,D B,D 146 158 158 27 27 27 27 27 27 27 27 27 27	5.2a 5.3 5.5 5.5 5.5 5.6 5.6 5.7 7.1 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2

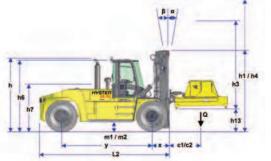


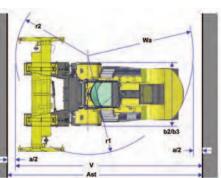


- Ast = Wa + x + b + a(see line 4.33)
  - a = Minimum operating clearance (VDI standard = 200mm, BITA recommendation = 300mm)
  - b = Load length
- 03

## H28-32XM-16CH Dedicated 20'-40' Container Handlers

1.1	Manufacturer						1.1
1,2	Model designation		H28XM	1-16CH	H32XM	M-16CH	1,2
1.3	Power: battery, diesel, LPG, electric mains		Die	isel	Die	esel	1.3
1.4	Operation: manual, pedestrian, stand, seat, orderpicker		Se	eat	S	eat	1.4
1.5	Load capacity	Q (kg)	26 400	24 000	30 500	28 400	1.5
1.6	Load centre	c1/c2 (mm)	1 390	1 600	1 390	1 600	1.6
1.8	Load distance (Dedicated carriage)	x (mm)	79	90	7	90	1.8
1.9	Wheelbase	y (mm)	4 3	115	4 :	825	1.9
2,1	Unladen weight	kg	51 -	489	51	710	2.1
2.2	Axle loading with load, front/rear	kg	74 459	5 027	76 250	5 940	2.2
2.3	Axle loading with load, nontrear	kg	32 333	19 153	32 017	19 693	2.3
2.0	Alle loading without load, nontreal	ng	02 000	10 100	02.011	10 000	2.0
3.1	Tyres: L = pneumatic, V = solid, SE = pneumatic-shaped solid		L			L	3.1
3.2	Tyre size, front		16,00			0 x 25	3.2
3.3			16,00			0 x 25	3.3
_	Tyre size, rear		4X	2	4X	2	
3.5	Number of wheels, front / rear (X = driven)	1.7.3					3.5
3.6	Tread, front	b <sub>10</sub> (mm)	2 4			425	3.6
3.7	Tread, rear	b <sub>11</sub> (mm)	2 3	140	2	340	3.7
4.1	Mast tilt, forward / backwards	degrees	6	10	6	10	4.1
4.2	Height of mast lowered (unloaded)	h <sub>1</sub> (mm)	5 6			640	4.2
4.4	Lift height (bottom of forks)	h <sub>3</sub> (mm)	60	195	6	095	4.4
4.5	Height of mast extended (unloaded)	h <sub>4</sub> (mm)	8 6	85	8	685	4.5
4.7	Cab height (open module)	h <sub>6</sub> (mm)	3 4	55	3 -	455	4,7
4.8	Seat height (Seat Index Point, ISO 5353)	h <sub>7</sub> (mm)	2 3	15	2	315	4.8
4.12	Coupling height	h <sub>10</sub> (mm)	10	130	1	030	4.12
4.13	Minimum height of cont, spreader Twistlocks, from the ground	h <sub>13</sub> (mm)	10	60	1	060	4.12
4.19	Overall length, incl. spreader at forward reach position	l <sub>1</sub> (mm)	87			260	4.19
4,20	Length without spreader	I <sub>2</sub> (mm)	63	310	6	820	4,20
4.21	Overall width truck	b <sub>2</sub> (mm)	3 3			380	4.21
4.22	Fork dimensions	s/e/l (mm)	N			NA .	4.22
7.22		aren (mm)	Dedicated carr			riage for Hyster	
4,23	Carriage type		Container Han			ndling spreader	4.23
4.24	Dedicated Carriage width	b <sub>3</sub> (mm)	3 3			390	4.24
4.30	Sideshift movement of the container spreader	b <sub>8</sub> b <sub>5</sub> (mm)	+/- 217	NA	+/- 217	NA	4.30
4,31	Ground clearance under mast, with load	m <sub>1</sub> (mm)	27			75	4.31
4.31	Ground clearance, centre of wheelbase	m <sub>2</sub> (mm)	44			40	4.31
4.32			9 615	13 620	10 245	13 745	4.32
	Stacking aisle, 20' / 40', without operating clearance	V (mm)					
4.34	Stacking aisle, 20' / 40', with 200 mm operating clearance	Ast (mm)	9 815	13 820	10 445	13 945	4.33
	Stacking aisle, 20' / 40', with 10 % operating clearance	Ast (mm)	10 575	14 980	11 270	15 120	
				85	6	848	
4.35	Turning radius	W <sub>a</sub> (mm)	61				4.35
4.35 4.36	Turning radius Internal turning radius	W <sub>a</sub> (mm) b <sub>13</sub> (mm)	6 1			323	4.36
4.36	Internal turning radius	b <sub>13</sub> (mm)	89	99	1:		4.36
4.36 5.1	Internal turning radius Travel speed with / without load	b <sub>13</sub> (mm) km/h	25	26	1 : 25	26	4.36 5.1
4.36	Internal turning radius Travel speed with / without load Lifting speed with / without load - with 230 Hp engine	b <sub>13</sub> (mm) km/h m/sec	25 0,25	26 0,29	25 0,25	26 0,29	4.36
4.36 5.1 5.2	Internal turning radius Travel speed with / without load Litiling speed with / without load - with 230 Hp engine Litiling speed with / without load - with 264 Hp engine	b <sub>13</sub> (mm) km/h m/sec m/sec	25 0,25 0,28	26 0,29 0,29	25 0,25 0,28	26 0,29 0,29	4.36 5.1 5.2
4.36 5.1	Internal turning radius Travel speed with / without load Lifting speed with / without load - with 230 Hp engine	b <sub>13</sub> (mm) km/h m/sec	25 0,25 0,28 T.E	26 0,29 0,29 3.D	25 0,25 0,28 T.I	26 0,29 0,29 B.D	4.36 5.1
4.36 5.1 5.2	Internal turning radius Travel speed with / without load Litiling speed with / without load - with 230 Hp engine Litiling speed with / without load - with 264 Hp engine	b <sub>13</sub> (mm) km/h m/sec m/sec	25 0,25 0,28 T.E T.E	26 0,29 0,29 3.D 3.D	25 0,25 0,28 T.I. T,I.	26 0,29 0,29 B.D B.D	4.36 5.1 5.2
4.36 5.1 5.2	Internal turning radius Travel speed with / without load Lifting speed with / without load - with 230 Hp engine Lifting speed with / without load - with 24 Hp engine Lifting speed with 70 % load - with 240 Hp engine	b <sub>13</sub> (mm) km/h m/sec m/sec m/sec	25 0,25 0,28 T.E	26 0,29 0,29 3.D	25 0,25 0,28 T.I	26 0,29 0,29 B.D	4.36 5.1 5.2
4.36 5.1 5.2 5.2a	Internal turming radius Travel speed with / without load Lifting speed with / without load - with 230 Hp engine Lifting speed with / without load - with 244 Hp engine Lifting speed with 70 % load - with 264 Hp engine Lifting speed with 70 % load - with 264 Hp engine	b <sub>13</sub> (mm) km/h m/sec m/sec m/sec m/sec	25 0,25 0,28 T.E T.E	26 0,29 0,29 3.D 3.D	25 0,25 0,28 T.I. T,I.	26 0,29 0,29 B.D B.D	4.36 5.1 5.2 5.2a
4.36 5.1 5.2 5.2a 5.3	Internal turning radius Travel speed with / without load Lifting speed with / without load - with 230 Hp engine Lifting speed with / without load - with 264 Hp engine Lifting speed with 70 % load - with 264 Hp engine Lifting speed with 70 % load - with 264 Hp engine Lowering speed with / without load	b <sub>13</sub> (mm) km/h m/sec m/sec m/sec m/sec m/sec	25 0,25 0,28 T.E T.E 0,50	26 0,29 0,29 3.D 3.D 0,50	25 0,25 0,28 T.I T,I 0,50	26 0,29 0,29 B.D B.D 0,50	4.36 5.1 5.2 5.2a 5.3
4.36 5.1 5.2 5.2a 5.3	Internal turning radius Travel speed with / without load Lifting speed with / without load - with 230 Hp engine Lifting speed with / without load - with 264 Hp engine Lifting speed with 70 % load - with 264 Hp engine Lifting speed with 70 % load - with 264 Hp engine Lifting speed with / without load Drawbar pull with / without load @ 1,6 km/hr - with 230 Hp engine	b <sub>13</sub> (mm) km/h m/sec m/sec m/sec m/sec kN	25 0,25 0,28 T.E 0,50 140	26 0,29 0,29 3.D 3.D 0,50 145	25 0,25 0,28 T.I. T.I. 0,50 139	26 0,29 0,29 B.D B.D 0,50 145	4.36 5.1 5.2 5.2a 5.3
4.36 5.1 5.2 5.2a 5.3 5.5	Internal turning radius Travel speed with / without load Lifting speed with / without load - with 230 Hp engine Lifting speed with / without load - with 264 Hp engine Lifting speed with 70 % load - with 264 Hp engine Lifting speed with 70 % load - with 264 Hp engine Lowering speed with / without load Drawbar pull with / without load @ 1,6 km/hr - with 264 Hp engine Drawbar pull with / without load @ 1,6 km/hr - with 264 Hp engine	b <sub>13</sub> (mm) kmlh m/sec m/sec m/sec m/sec kN kN	25 0.25 0.28 T.E 0.50 140 161	26 0,29 0,29 3.D 3.D 0,50 145 165	25 0,25 0,28 T.I 0,50 139 160	26 0,29 0,29 B.D B.D 0,50 145 165	4.36 5.1 5.2 5.2a 5.3 5.5
4.36 5.1 5.2 5.2a 5.3 5.5	Internal turning radius Travel speed with / without load Lifting speed with / without load - with 230 Hp engine Lifting speed with / without load - with 230 Hp engine Lifting speed with 70 % load - with 264 Hp engine Lifting speed with 70 % load - with 264 Hp engine Lowering speed with / without load Drawbar pull with / without load @ 1.6 km/hr - with 230 Hp engine Drawbar pull with / without load @ 1.6 km/hr - with 264 Hp engine Max. drawbar pull with / without load @ 1.6 km/hr - with 284 Hp engine	b <sub>13</sub> (mm) km/h m/sec m/sec m/sec m/sec kN kN kN kN	25 0,25 0,28 T.E 0,50 140 161 176	26 0,29 0,29 3,D 0,50 145 165 181	25 0,25 0,28 T.I T.I 0,50 139 160 175	26 0,29 0,29 B.D 0,50 145 165 180	4.36 5.1 5.2 5.2a 5.3 5.5
4.36 5.1 5.2 5.2a 5.3 5.5 5.6	Internal turning radius Travel speed with / without load Lifting speed with / without load - with 230 Hp engine Lifting speed with 70 % load - with 264 Hp engine Lifting speed with 70 % load - with 264 Hp engine Lifting speed with / without load - with 264 Hp engine Lifting speed with / without load - with 264 Hp engine Drawbar pull with / without load @ 1.6 km/hr - with 230 Hp engine Drawbar pull with / without load @ 1.6 km/hr - with 244 Hp engine Max. drawbar pull with / without load - with 264 Hp engine Max.drawbar pull with / without load = with 264 Hp engine Max.drawbar pull with / without load - with 264 Hp engine	b <sub>13</sub> (mm) kmlh m/sec m/sec m/sec m/sec kN kN kN kN	85 0.25 0.28 T.E 0.50 140 161 161 176 201	26 0,29 0,29 3,D 0,50 145 165 181 205	25 0,25 0,28 T.I T.I 0,50 139 160 175 200	26 0,29 0,29 B.D 0,50 145 165 180 205	4.36 5.1 5.2 5.2a 5.3 5.5 5.6
4.36 5.1 5.2 5.2a 5.3 5.5 5.6	Internal turning radius Travel speed with / without load Lifting speed with / without load with 230 Hp engine Lifting speed with / without load - with 264 Hp engine Lifting speed with 70 % load - with 264 Hp engine Lifting speed with 70 % load - with 264 Hp engine Lowering speed with / without load Drawbar pull with / without load @ 1.6 km/hr - with 230 Hp engine Drawbar pull with / without load @ 1.6 km/hr - with 284 Hp engine Max. drawbar pull with / without load - with 284 Hp engine Max. drawbar pull with / without load @ 1.6 km/hr - with 230 Hp engine Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine	b <sub>13</sub> (mm) km/h m/sec m/sec m/sec m/sec kN kN kN kN kN kN %	85 25 0.25 0.28 T.E T.E 0.50 140 161 176 201 19	26 0,29 0,29 3,D 0,50 145 165 181 205 30	25 0.25 0.28 T.I 0.50 139 160 175 200 17	26 0,29 0,29 B,D B,D 0,50 145 165 180 205 29	4.36 5.1 5.2 5.2a 5.3 5.5 5.6 5.7
4.36 5.1 5.2 5.2a 5.3 5.5 5.6 5.7	Internal turning radius Travel speed with / without load Lifting speed with / without load - with 230 Hp engine Lifting speed with / without load - with 230 Hp engine Lifting speed with 70 % load - with 230 Hp engine Lifting speed with 70 % load - with 264 Hp engine Lowering speed with 70 % load - with 264 Hp engine Lowering speed with / without load @ 1.6 km/hr - with 230 Hp engine Drawbar pull with / without load @ 1.6 km/hr - with 264 Hp engine Max. drawbar pull with / without load @ 1.6 km/hr - with 264 Hp engine Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑	b <sub>13</sub> (mm) kmlh m/sec m/sec m/sec kN kN kN kN kN kN kN kN kN kN	85 0.25 0.28 T.E 0.50 140 161 176 201 19 22 24	26 0,29 0,29 3,D 0,50 145 181 205 30 33 33	25 0,25 0,28 T.J 0,50 139 160 175 200 17 20 22	26 0,29 0,29 B.D 0,50 145 165 180 205 29 34 34	4.36 5.1 5.2 5.2a 5.3 5.5 5.6
4.36 5.1 5.2 5.2 5.3 5.5 5.6 5.6 5.7 5.8	Internal luming radius Travel speed with / without load Lifting speed with / without load - with 230 Hp engine Lifting speed with 70 % load - with 264 Hp engine Lifting speed with 70 % load - with 264 Hp engine Lifting speed with / without load 0 + 0.6 Km/hr - with 230 Hp engine Lifting speed with / without load 0 + 0.6 Km/hr - with 230 Hp engine Drawbar pull with / without load 0 + 0.6 Km/hr - with 230 Hp engine Max. drawbar pull with / without load 0 + 0.6 Km/hr - with 230 Hp engine Max. drawbar pull with / without load 0 + 0.6 Km/hr - with 230 Hp engine Max. drawbar pull with / without load 0 + 0.6 Km/hr - with 230 Hp engine Gradeability with / without load 0 + 0.6 Km/hr - with 230 Hp engine 1 Gradeability with / without load 0 + 0.6 km/hr - with 264 Hp engine 1 Gradeability with / without load 0 = stal - with 264 Hp engine 1 Gradeability with / without load 0 = stal - with 264 Hp engine 1	b <sub>13</sub> (mm) kmlh m/sec m/sec m/sec kN kN kN kN kN kN kN kN kN kN	85 25 0.25 0.28 T.E 0.50 140 161 176 201 19 22	26 0,29 0,29 3,D 0,50 145 165 181 205 30 33 33 33 33	25 0,25 0,28 T,1 0,50 139 160 175 200 17 20 22 25	26 0.29 0.29 B.D B.D B.D 145 165 180 205 29 34	4.36 5.1 5.2 5.2a 5.5 5.5 5.6 5.6 5.7 5.7
4.36 5.1 5.2 5.2a 5.3 5.5 5.6 5.7	Internal turning radius Travel speed with / without load Lifting speed with / without load - with 230 Hp engine Lifting speed with / without load - with 230 Hp engine Lifting speed with 70 % load - with 230 Hp engine Lifting speed with 70 % load - with 264 Hp engine Lowering speed with 70 % load - with 264 Hp engine Lowering speed with / without load @ 1.6 km/hr - with 230 Hp engine Drawbar pull with / without load @ 1.6 km/hr - with 264 Hp engine Max. drawbar pull with / without load @ 1.6 km/hr - with 264 Hp engine Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑	b <sub>13</sub> (mm) kmlh m/sec m/sec m/sec kN kN kN kN kN kN kN kN kN kN	85 25 0.25 0.28 T.E. 0.50 140 161 176 201 19 22 24 27	26 0,29 0,29 3,D 0,50 145 165 181 205 30 33 33 33 33	25 0,25 0,28 T,1 0,50 139 160 175 200 17 20 22 25	26 0,29 0,29 B,D 0,50 145 165 180 205 29 34 34 34	4.36 5.1 5.2 5.2a 5.3 5.5 5.6 5.7
4.36 5.1 5.2 5.2a 5.3 5.5 5.6 5.6 5.7 5.8 5.8 5.10	Internal turning radius Travel speed with / without load Lifting speed with / without load - with 230 Hp engine Lifting speed with / without load - with 264 Hp engine Lifting speed with 70 % load - with 264 Hp engine Lifting speed with / without load > with 264 Hp engine Lifting speed with / without load Drawbar pull with / without load @ 1.6 km/hr - with 230 Hp engine Drawbar pull with / without load @ 1.6 km/hr - with 230 Hp engine Max. drawbar pull with / without load @ 1.6 km/hr - with 230 Hp engine Max. drawbar pull with / without load @ 1.6 km/hr - with 230 Hp engine Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑	b <sub>13</sub> (mm) kmlh m/sec m/sec m/sec kN kN kN kN kN kN kN kN kN kN	85 25 0.25 0.28 T.E. 0.50 140 161 176 201 19 22 24 27 Oil inmerse	26 0,29 0,29 3,D 0,50 145 165 181 205 30 33 33 33 33 33 33 d 'wet discs'	1 : 25 0,25 0,28 T.J T.J 0,50 139 160 175 200 17 20 22 25 Olimmerse	26 0,29 0,29 B,D 0,50 145 165 180 205 29 34 34 34 34 34 34 d 'wet discs'	4.36 5.1 5.2 5.2 5.3 5.5 5.6 5.6 5.7 5.8 5.8 5.10
4.36 5.1 5.2 5.2 5.3 5.5 5.6 5.7 5.7 5.8	Internal huming radius         Travel speed with / without load         Lifting speed with / without load - with 230 Hp engine         Lifting speed with / Without load - with 264 Hp engine         Lifting speed with 70 % load - with 264 Hp engine         Lifting speed with 70 % load - with 264 Hp engine         Lowering speed with 70 % load - with 264 Hp engine         Lowering speed with / without load         Drawbar pull with / without load @ 1.6 km/hr - with 230 Hp engine ◆         Max. drawbar pull with / without load @ 1.6 km/hr - with 230 Hp engine ◆         Max. drawbar pull with / without load @ 1.6 km/hr - with 230 Hp engine ◆         Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine ↑         Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine ↑         Gradeability with / without load @ 1.6 km/hr with 244 Hp engine ↑         Gradeability with / without load @ 1.6 km/hr with 230 Hp engine ↑         Gradeability with / without load @ 1.6 km/hr with 244 Hp engine ↑         Gradeability with / without load @ 1.6 km/hr with 244 Hp engine ↑         Gradeability with / without load @ 1.6 km/hr with 240 Hp engine ↑         Gradeability with / without load @ 1.6 km/hr with 244 Hp engine ↑         Gradeability with / without load @ 1.6 km/hr with 244 Hp engine ↑         Gradeability with / without load @ 1.6 km/hr with 244 Hp engine ↑         Service brake         Engine manufacturer /	b <sub>13</sub> (mm) kmlh m/sec m/sec m/sec kN kN kN kN kN kN kN kN kN kN	85 25 0.25 0.28 T.E. 0.50 140 161 176 201 19 22 24 27	26 0,29 0,29 3,D 0,50 145 165 181 205 30 33 33 33 33	25 0,25 0,28 T,1 0,50 139 160 175 200 17 20 22 25	26 0,29 0,29 B,D 0,50 145 165 180 205 29 34 34 34	4.36 5.1 5.2 5.2a 5.5 5.5 5.6 5.6 5.7 5.7
4.36 5.1 5.2 5.2a 5.3 5.5 5.6 5.7 5.8 5.7 5.8 5.10 7.1	Internal turning radius Travel speed with / without load Lifting speed with / without load - with 230 Hp engine Lifting speed with / without load - with 264 Hp engine Lifting speed with 70 % load - with 264 Hp engine Lifting speed with 70 % load - with 264 Hp engine Lifting speed with 70 % load - with 264 Hp engine Lifting speed with / without load Drawbar pull with / without load @ 1.6 km/hr - with 230 Hp engine Trawbar pull with / without load @ 1.6 km/hr - with 264 Hp engine Max. drawbar pull with / without load - with 230 Hp engine Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 244 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 244 Hp engine ↑ Gradeability with / without load @ stall - with 264 Hp engine ↑ Service brake Engine manufacturer / type Engine output according to ISO 1585:	b <sub>13</sub> (mm) km/h m/sec m/sec m/sec kN kN kN kN kN % % % %	85 25 0.25 0.28 T.E. T.E. 0.50 140 161 176 201 19 22 24 27 Oil immerse Curmins	26 26 0,29 0,29 3,D 0,50 145 165 181 205 30 33 33 33 d'wet discs' QSC 8.3	1 : 25 0,25 0,28 T.J T.J 0,50 139 160 175 200 17 20 22 25 Oil immerse Cummins	26 0,29 0,29 8.D 8.D 145 165 180 205 29 34 34 34 34 34 34 34 34 34	4.36 5.1 5.2 5.2a 5.3 5.5 5.6 5.7 5.7 5.8 5.8 5.10 7.1
4.36 5.1 5.2 5.2a 5.3 5.5 5.6 5.6 5.7 5.8 5.8 5.10	Internal luming radius         Travel speed with / without load         Lifting speed with / without load - with 230 Hp engine         Lifting speed with / without load - with 264 Hp engine         Lifting speed with / without load - with 264 Hp engine         Lowering speed with / without load         Drawbar pul with / without load         Drawbar pul with / without load         Drawbar pul with / without load         Max. drawbar pul with / without load         Max. drawbar pul with / without load         With / Without load         Max. drawbar pul with / without load         With / without load         Max. drawbar pul with / without load	b <sub>13</sub> (mm) kmlh m/sec m/sec m/sec kN kN kN kN kN kN kN kN kN kN	85 25 0.25 0.28 T.E 0.50 140 161 176 201 19 22 24 27 Oil Immerse Cummins 230 Hp (172 kW)	26 0,29 0,29 3,D 0,50 145 165 181 205 30 33 33 33 33 d 'wet discs' QSC 8,3 215 Hp (160 kW)	1 : 25 0,25 0,28 T.J T.J 0,50 139 160 175 200 17 20 22 25 Oil immerse Cummins	26 0,29 0,29 B,D 0,50 145 165 180 205 29 34 34 34 34 34 34 d wet discs' 25 5 29 34 34 34 34 34 34 34 34 34 34 34 34 34	4.36 5.1 5.2 5.2 5.3 5.5 5.6 5.6 5.7 5.8 5.8 5.10
4.36 5.1 5.2 5.2 5.3 5.5 5.5 5.6 5.7 5.8 5.8 5.10 7.1 7.2	Internal turning radius Travel speed with / without load Lifting speed with / without load - with 230 Hp engine Lifting speed with 70 % load - with 284 Hp engine Lifting speed with 70 % load - with 284 Hp engine Lifting speed with 70 % load - with 284 Hp engine Lowering speed with / without load - With 284 Hp engine Lowering speed with / without load @ 1.6 km/hr - with 230 Hp engine Drawbar pull with / without load @ 1.6 km/hr - with 230 Hp engine Max. drawbar pull with / without load @ 1.6 km/hr - with 230 Hp engine Max. drawbar pull with / without load @ 1.6 km/hr - with 230 Hp engine Max. drawbar pull with / without load - with 24 Hp engine Max. drawbar pull with / without load = 0.16 km/hr - with 230 Hp engine ↑ Gradeability with / without load @ stall - with 230 Hp engine ↑ Gradeability with / without load @ stall - with 264 Hp engine ↑ Gradeability with / without load @ stall - with 264 Hp engine ↑ Gradeability with / without load @ stall - with 264 Hp engine ↑ Gradeability with / without load @ stall - with 264 Hp engine ↑ Gradeability with / without load @ stall - with 264 Hp engine ↑ Gradeability with / without load @ stall - with 264 Hp engine ↑ Gradeability with / without load @ stall - with 264 Hp engine ↑ Gradeability with / without load @ stall - with 264 Hp engine ↑ Gradeability with / without load @ stall - with 264 Hp engine ↑ Gradeability with / without load @ stall - with 264 Hp engine ↑ Gradeability with / without load @ stall - with 264 Hp engine ↑ Gradeability with / without load @ stall - with 264 Hp engine ↑ Gradeability with / without load @ stall - with 264 Hp engine ↑ Gradeability with / without load @ stall - with 264 Hp engine ↑ Gradeability with / without load @ stall - with 264 Hp engine ↑ Gradeability with / without load @ stall - with 264 Hp engine ↑ Gradeability with / without load @ stall - with 264 Hp engine ↑ Gradeability with / without load @ stall - with 264 Hp engine ↑ Gradeability with / without load @ stall - with 264 Hp engine ↑ Gradeability with / without load @ stal	b <sub>13</sub> (mm) km/h m/sec m/sec m/sec kN kN kN kN kN kN kN kW % % % % % % % % % % % % %	85 25 0.25 0.25 0.28 T.E. T.E. 0.50 140 161 176 201 19 22 24 27 Oil inmerse Cummins 230 Hp (172 KW) 264 Hp (197 KW)	26 0,29 0,29 3,D 0,50 145 165 181 205 30 33 33 33 33 d'wet discs' d'wet discs' 215 Hp (160 kW) 250 Hp (186 kW)	25 0,25 0,28 TJ T, 0,50 139 160 175 200 17 20 22 25 Oll immerse Cummins 230 Hp (172 kW) 264 Hp (197 kW)	26 0,29 0,29 B,D 0,50 145 165 180 205 29 34 34 34 34 34 34 34 215 Hp (160 kW) 250 Hp (186 kW)	4.36 5.1 5.2 5.2a 5.3 5.5 5.6 5.7 5.8 5.8 5.10 7.1 7.2
4.36 5.1 5.2 5.2a 5.3 5.5 5.6 5.7 5.8 5.7 5.8 5.10 7.1	Internal luming radius         Travel speed with / without load         Lifting speed with / without load - with 230 Hp engine         Lifting speed with / without load - with 264 Hp engine         Lifting speed with / without load - with 264 Hp engine         Lifting speed with / without load         Drawbar pul with / without load         Max. drawbar pul with / without load         Max. drawbar pul with / without load         With / without load         Max. drawbar pul with / without load         Gradeability with / without load         Min / Gradeability with / without load         Gradeability with / without load         I Gradeability with / without load	b <sub>13</sub> (mm) km/h m/sec m/sec m/sec kN kN kN kN kN % % % %	85 25 0.25 0.28 T.E 0.50 140 161 176 201 19 22 24 27 Oil Immerse Cummins 230 Hp (172 kW)	26 0.29 0.29 3.0 0.50 145 165 181 205 30 33 33 33 33 d wet discs' QSC 8.3 215 Hp (160 kW) 250 Hp (186 kW)	25 0,25 0,28 T,1 T,1 0,50 139 160 175 200 17 20 22 25 Oll immerse Cummins 230 Hp (172 kW) 284 Hp (197 kW) 915 Nm @ 94	26 0,29 0,29 B,D 0,50 145 165 180 205 29 34 34 34 34 34 34 d wet discs' 25 5 29 34 34 34 34 34 34 34 34 34 34 34 34 34	4.36 5.1 5.2 5.2a 5.3 5.5 5.6 5.7 5.7 5.8 5.8 5.10 7.1
4.36 5.1 5.2 5.2 5.3 5.5 5.6 5.7 5.8 5.7 5.8 5.10 7.1 7.2 7.2.1	Internal luming radius  Travel speed with / without load  Lifting speed with / without load - with 230 Hp engine  Lifting speed with / without load - with 264 Hp engine  Lifting speed with 70 % load - with 264 Hp engine  Lifting speed with 70 % load - with 264 Hp engine  Lifting speed with / without load - with 264 Hp engine  Lifting speed with / without load @ 1.6 km/hr - with 230 Hp engine  Drawbar pull with / without load @ 1.6 km/hr - with 280 Hp engine  Trawbar pull with / without load @ 1.6 km/hr - with 284 Hp engine  Max. drawbar pull with / without load @ 1.6 km/hr - with 284 Hp engine  Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine  Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑  Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑  Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑  Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑  Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑  Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑  Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑  Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑  Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑  Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑  Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑  Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑  Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑  Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑  Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑  Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑  Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑  Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑  Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑  Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine	b <sub>13</sub> (mm) km/h m/sec m/sec m/sec kN kN kN kN kN kN kN kN kN kN	85 25 0.25 0.28 T.E T.E 0.50 140 161 176 201 19 22 24 27 Oil immerse Cummins 230 Hp (172 kW) 915 Nm @ 90 915 Km @ 90	26 0,29 0,29 3,D 0,50 145 165 181 205 30 33 33 33 33 33 33 d'wet discs' QSC 8,3 215 Hp (160 kW) 250 Hp (166 kW) 0.5 + 1500 rpm 2 1500 rpm	25 0,25 0,25 0,28 T,1 T,1 0,50 139 160 175 200 17 20 22 25 Oll immerse 230 Hp (172 kW) 264 Hp (197 kW) 915 Nm @ 91 1125 Nm (	26 0,29 0,29 8,D 8,D 145 165 180 205 29 34 34 34 34 34 34 205 P(160 kW) 250 Hp (160 kW) 00 - 1500 rpm	4.36 5.1 5.2 5.2 5.3 5.5 5.6 5.7 5.8 5.7 5.8 5.10 7.1 7.2 7.2.1
4.36 5.1 5.2 5.2a 5.3 5.5 5.6 5.7 5.8 5.7 5.8 5.10 7.1 7.2	Internal turning radius Inter	b <sub>13</sub> (mm) kmlh m/sec m/sec m/sec kN kN kN kN kN kN kW % % % % % % % % % % % % %	85 25 0.25 0.28 T.E. 0.50 140 140 161 176 201 19 22 24 27 Oilimmerse 230 Hp (172 kW) 24 Hp (197 kW) 24 Hp (197 kW) 9 1125 Nm (9 9 1125 Nm (9 9 1125 Nm (9 1125 Nm	26 0,29 0,29 3,D 0,50 145 165 181 205 30 33 33 33 33 33 33 d'wet discs' QSC 8,3 215 Hp (160 kW) 250 Hp (166 kW) 0.5 + 1500 rpm 2 1500 rpm	25 0,25 0,25 0,28 T,1 T,1 0,50 139 160 175 200 17 20 22 25 Oll immerse 230 Hp (172 kW) 264 Hp (197 kW) 915 Nm @ 91 1125 Nm (	26 0,29 0,29 8.D 8.D 145 165 180 205 29 34 34 34 34 34 34 34 34 34 34 34 34 34	4.36 5.1 5.2 5.2 5.3 5.5 5.6 5.7 5.8 5.7 5.8 5.10 7.1 7.2 7.2.1 7.3
4.36 5.1 5.2 5.3 5.5 5.6 5.7 5.7 5.8 5.10 7.1 7.2 7.2.1 7.2.1 7.3 7.4	Internal luming radius Travel speed with / without load Lifting speed with / without load - with 230 Hp engine Lifting speed with 70 % load - with 264 Hp engine Lifting speed with 70 % load - with 264 Hp engine Lifting speed with 70 % load - with 264 Hp engine Lifting speed with / without load 0 + 68 km/r - with 230 Hp engine Drawbar pull with / without load 0 + 1.6 km/hr - with 230 Hp engine Trawbar pull with / without load 0 + 1.6 km/hr - with 230 Hp engine Max. drawbar pull with / without load 0 + 1.6 km/hr - with 230 Hp engine Max. drawbar pull with / without load 0 + 1.6 km/hr - with 230 Hp engine Gradeability with / without load 0 + 1.6 km/hr - with 230 Hp engine ↑ Gradeability with / without load 0 + 1.6 km/hr - with 246 Hp engine ↑ Gradeability with / without load 0 + 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load 0 + 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load 0 + stal - with 264 Hp engine ↑ Gradeability with / without load 0 + stal - with 264 Hp engine ↑ Gradeability with / without load 0 + stal - with 264 Hp engine ↑ Gradeability with / without load 0 + stal - with 264 Hp engine ↑ Gradeability with / without load 0 + stal - with 264 Hp engine ↑ Gradeability with / without load 0 + stal - with 264 Hp engine ↑ Gradeability with / without load 0 + stal - with 264 Hp engine ↑ Gradeability with / without load 0 + stal - with 264 Hp engine ↑ Gradeability with / without load 0 + stal - with 264 Hp engine ↑ Gradeability with / without load 0 + stal - with 264 Hp engine ↑ Gradeability with / without load 0 + stal - with 264 Hp engine ↑ Gradeability with / without load 0 + stal - with 264 Hp engine ↑ Gradeability with / without load 0 + stal - with 264 Hp engine ↑ Gradeability with / without load 0 + stal - with 264 Hp engine ↑ Gradeability with / without load 0 + 2000 rpm / Nominal 0 max 2 200 rpm Maximum engine torque • Otional 264 Hp engine Maximum engine torque • Otional 264 Hp engine Number of cylinders / displacement	b <sub>13</sub> (mm) kmlh m/sec m/sec m/sec m/sec kN kN kN kN kN kN kW % % % % % % % % % % % % %	85 25 0.25 0.28 T.E 0.50 140 161 176 201 19 22 24 27 Oil Immerse 230 Hp (172 kW) 264 Hp (197 kW) 91 5 Nm @ 125 Nm @ 2 2	26 26 0,29 0,29 3,D 0,50 145 165 181 205 30 33 33 4 'wet discs' QSC 8.3 215 Hp (166 kW) 250 Hp (166 kW) 250 Hp (166 kW) 0 - 1500 rpm 9 1 500 rpm 200 8 270	25 0,25 0,28 T.I T.T 0,50 139 160 175 200 17 20 20 21 25 Oll immerse 230 Hp (172 kW) 264 Hp (197 kW) 915 Nm @ 91 125 Nm ( 2:	26 0.29 0.29 B.D 0.50 145 165 180 205 29 34 34 34 34 34 34 vet discs' QSC 8.3 215 Hp (160 kW) 250 Hp (186 kW) 00 - 1500 rpm 200	4.36 5.1 5.2 5.3 5.5 5.6 5.7 5.7 5.8 5.10 7.1 7.2 7.2.1 7.2.1 7.3 7.4
4.36 5.1 5.2 5.3 5.5 5.5 5.6 5.7 5.8 5.7 5.8 5.10 7.1 7.2 7.2.1 7.3	Internal turning radius Inter	b <sub>13</sub> (mm) kmlh m/sec m/sec m/sec kN kN kN kN kN kN kW % % % % % % % % % % % % %	85 25 0.25 0.25 0.28 T.E. T.E. 0.50 140 161 176 201 19 22 24 27 Oil immerse 200 hp (172 kW) 264 hp (177 kW) 264 hp (177 kW) 915 Nm @ 90 1125 Nm @ 2 2 6	26 26 0,29 0,29 3,D 0,50 145 165 181 205 30 33 33 4 'wet discs' QSC 8.3 215 Hp (166 kW) 250 Hp (166 kW) 250 Hp (166 kW) 0 - 1500 rpm 9 1 500 rpm 200 8 270	25 0,25 0,28 T.I T.T 0,50 139 160 175 200 17 20 20 21 25 Oll immerse 230 Hp (172 kW) 264 Hp (197 kW) 915 Nm @ 91 125 Nm ( 2:	26 0,29 0,29 8,D 6,D 145 165 180 205 29 34 34 34 34 34 34 34 34 25 50 Hp (160 kW) 250 Hp (166	4.36 5.1 5.2 5.2 5.3 5.5 5.6 5.7 5.8 5.7 5.8 5.10 7.1 7.2 7.2.1 7.3
4.36 5.1 5.2 5.3 5.5 5.6 5.7 5.8 5.10 7.1 7.2 7.2.1 7.2.1 7.3 7.4 7.5	Internal luming radius  Travel speed with / without load  Lifting speed with / without load - with 230 Hp engine Lifting speed with / Without load - with 264 Hp engine Lifting speed with 70 % load - with 264 Hp engine Lifting speed with 70 % load - with 264 Hp engine Lifting speed with 70 % load - with 264 Hp engine Lifting speed with / without load @ 1.6 km/hr - with 230 Hp engine Drawbar pull with / without load @ 1.6 km/hr - with 284 Hp engine Trawbar pull with / without load @ 1.6 km/hr - with 284 Hp engine Max. drawbar pull with / without load = with 230 Hp engine Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑ Gradeability with / without load @ 2.00 rpm / Nominal @ max 2.200 rpm For optional engine: Maximum @ 2.000 rpm / Nominal @ max 2.200 rpm Maximum engine torque - Optional 284 Hp engine Governed speed Number of cylinders / displacement Fuel consumption	b <sub>13</sub> (mm) kmlh m/sec m/sec m/sec m/sec kN kN kN kN kN kN kW % % % % % % % % % % % % %	86 25 0.25 0.28 T.E 0.50 140 161 176 201 19 22 24 27 Oil inmerse 230 Hp (172 kW) 24 Hp (197 kW) 91 51 Nm @9 91 125 Nm @ 2 2 6 <b>5</b>	29 26 0,29 0,29 3,D 0,50 145 165 181 205 30 33 33 33 33 d'wet discs' QSC 8.3 215 Hp (180 kW) 250 Hp (180 k	25 0,25 0,28 T, T, T, 0,50 139 160 175 200 17 20 22 25 Oll immerse 230 Hp (172 kW) 264 Hp (197 kW) 915 Nm @ 91 1125 Nm @ 9	26 0,29 0,29 8.D 8.D 145 165 180 205 29 34 34 34 34 34 34 34 34 34 34 34 34 34	4.36 5.1 5.2 5.3 5.5 5.6 5.7 5.8 5.10 7.1 7.2 7.2.1 7.2.1 7.3 7.4 7.5
4.36 5.1 5.2 5.2a 5.3 5.5 5.6 5.7 5.7 5.8 5.10 7.1 7.2 7.2.1 7.2 7.2.1 8.1	Internal turning radius Inter	b <sub>13</sub> (mm) kmlh m/sec m/sec m/sec m/sec kN kN kN kN kN kN kW % % % % % % % % % % % % %	85 25 0.25 0.25 0.28 T.E. T.E. 0.50 140 161 176 201 19 22 24 27 Oil immerse Cummins 220 Hp (172 KW) 264 Hp (197 KW) 915 Nm @ 90 1125 Nm @ 90 2 2 6 <b>2</b> <b>5</b> <b>1</b> 20 KW	29 26 0,29 0,29 0,29 3,D 0,50 145 165 181 205 30 33 33 33 4 'wet discs' QSC 8.3 215 Hp (160 kW) 250 Hp (186 kW) 00 + 1500 rpm 8 1500 rpm 100 8 270 <b>2</b> <b>2</b> <b>2</b> <b>2</b> <b>3</b> <b>3</b> <b>3</b> <b>3</b> <b>3</b> <b>3</b> <b>3</b> <b>3</b>	25 0.25 0.28 T.I. 0.50 139 160 175 200 17 20 22 25 Oli immerse Curmins 230 Hp (172 kW) 264 Hp (172 kW) 915 Nm @ 91 1125 Nm	26 0.29 0.29 B.D 0.50 145 165 180 205 29 34 34 34 34 34 34 34 vet discs' QSC 8.3 215 Hp (160 kW) 250 Hp (186 kW) 00 - 1500 rpm 200 8 1500 rpm 200 8 1500 rpm 200 8 270 8 270	4.36 5.1 5.2 5.3 5.5 5.6 5.7 5.8 5.10 7.1 7.2 7.2.1 7.2 7.2.1 7.3 7.4 7.5
4.36 5.1 5.2 5.2a 5.3 5.5 5.6 5.6 5.7 5.8 5.8 5.10 7.1 7.2 7.2.1 7.2.1 7.2 7.4 7.5 8.1 8.2	Internal luming radius         Travel speed with / without load         Lifting speed with / without load - with 230 Hp engine         Lifting speed with 70 % load - with 264 Hp engine         Lifting speed with 70 % load - with 264 Hp engine         Lowering speed with / without load         Drawbar pull with / without load @ 1.6 km/hr - with 230 Hp engine         Drawbar pull with / without load @ 1.6 km/hr - with 230 Hp engine         Max, drawbar pull with / without load @ 1.6 km/hr - with 230 Hp engine         Max, drawbar pull with / without load @ 1.6 km/hr - with 230 Hp engine         Max, drawbar pull with / without load @ 1.6 km/hr - with 230 Hp engine €         Max, drawbar pull with / without load @ 1.6 km/hr - with 230 Hp engine 1         Gradeabiliy with / without load @ 1.6 km/hr - with 230 Hp engine 1         Gradeabiliy with / without load @ 1.6 km/hr - with 264 Hp engine 1         Gradeabiliy with / without load @ 1.6 km/hr - with 264 Hp engine 1         Gradeabiliy with / without load @ stall - with 264 Hp engine 1         Gradeabiliy with / without load @ stall - with 264 Hp engine 1         Gradeabiliy with / without load @ stall - with 264 Hp engine 1         Gradeabiliy with / without load @ stall - with 264 Hp engine 1         Gradeabiliy engine: Maximum @ 2 000 pm / Nominal @ max 2 200 pm         For optional engine: Maximum @ 2 000 pm / Nominal @ max 2 200 pm         For optional engine: Maximum @ 2 000 pm / Nominal @	b <sub>13</sub> (mm) kmlh m/sec m/sec m/sec m/sec kN kN kN kN kN kN kW % % % % % % % % % % % % %	85 25 0.25 0.25 0.28 T.E. T.E. T.E. 0.50 140 161 176 201 19 22 24 27 Oil immerse 200 hp (172 kW) 264 hp (177 kW) 265 hm @ 90 1125 hm @ 90	26 26 0,29 0,29 3,D 0,50 145 165 181 205 30 33 33 33 4 'wet discs' QSC 8.3 215 Hp (166 kW) 0 - 1500 rpm 9 1 500 rpm 8 270 8 270	1 : 25 0,25 0,28 T.I T.I 0,50 139 160 175 200 17 20 22 25 Oil immerse 230 Hp (172 kW) 264 Hp (197 kW) 915 Nm (99 1125 Nm (99) Nm (	26 0,29 0,29 8.D 8.D 145 165 180 205 29 34 34 34 34 34 34 34 34 34 34 34 34 34	4.36 5.1 5.2 5.2a 5.3 5.5 5.6 5.6 5.7 7.1 7.2 7.2.1 7.2 7.2.1 7.3 7.4 7.5 8.1 8.2
4.36 5.1 5.2 5.2 5.3 5.5 5.6 5.7 5.8 5.7 5.8 5.7 7.1 7.2 7.2.1 7.2 7.2.1 7.3 7.4 7.5 8.1 8.2 8.3	Internal luming radius Inverse speed with / without load Utifing speed with / without load - with 230 Hp engine Utifing speed with / without load - with 264 Hp engine Utifing speed with 70 % load - with 264 Hp engine Utifing speed with 70 % load - with 264 Hp engine Utifing speed with 70 % load - with 264 Hp engine Utifing speed with / without load Drawbar pull with / without load @ 1.6 km/hr - with 230 Hp engine Max. drawbar pull with / without load - with 264 Hp engine Max. drawbar pull with / without load - with 230 Hp engine Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr = with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr = with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr = with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr = with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr = with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr = with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr = with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr = with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr = with 264 Hp engine ↑ Gradeability with / without engine / without load @ 1.6 km/hr = with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr = with 264 Hp engine ↑	b <sub>13</sub> (mm) kmh m/sec m/sec m/sec m/sec kN kN kN kN kN % % % % % % % % % % % % %	85 25 0.25 0.25 0.28 T.E T.E 0.50 140 161 176 201 19 22 24 27 Oil Immerse 230 Hp (172 KV) 264 Hp (177 KV) 915 Nm @ 90 1 125 Nm @ 90 1 125 Nm @ 92 6 <b>S</b> <b>S</b> <b>S</b> <b>S</b> <b>S</b> <b>S</b> <b>S</b> <b>S</b>	29 26 0,29 0,29 3,D 0,50 145 165 181 205 30 33 33 33 33 4 <sup>1</sup> wet discs <sup>1</sup> QSC 8.3 215 Hp (160 kW) 0 - 1500 rpm ≥ 1500 rpm ≥ 00 8 270 8 2 2 2 2 2 2 2 2 2 2 2 2 2	1 :: 25 0,25 0,28 T.I. T.I. 0,50 139 160 175 200 17 20 22 25 Oil immerse 230 Hp (172 kW) 915 Nm @ 91 1125 Nm @ 91 1125 Nm @ 91 1125 Nm @ 91 1126 Nm @	26 0,29 0,29 B,D 145 165 180 205 29 34 34 34 34 34 34 34 34 215 Hp (160 KW) 250 Hp (186 KW) 2	4.36 5.1 5.2 5.2a 5.3 5.5 5.6 5.7 5.7 5.8 5.8 5.10 7.1 7.2 7.2.1 7.2.1 7.2 7.2.1 7.2.1 8.1 8.2 8.3
4.36 5.1 5.2 5.2 5.3 5.5 5.6 5.7 5.7 5.8 5.7 7.1 7.2 7.2.1 7.2 7.2.1 7.3 7.4 7.5 8.1 8.2 8.3 8.4	Internal luming radius  Travel speed with / without load  Lifting speed with / without load - with 230 Hp engine  Lifting speed with / Without load - with 264 Hp engine  Lifting speed with 70 % load - with 264 Hp engine  Lifting speed with 70 % load - with 264 Hp engine  Lifting speed with 70 % load - with 264 Hp engine  Lifting speed with / without load @ 1.6 km/hr - with 230 Hp engine  Drawbar pull with / without load @ 1.6 km/hr - with 284 Hp engine  Trawbar pull with / without load @ 1.6 km/hr - with 284 Hp engine  Max. drawbar pull with / without load = with 230 Hp engine  Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine  Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑  Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑  Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑  Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑  Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑  Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑  Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑  Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑  Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑  Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑  Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑  Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑  Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑  Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑  Gradeability with / without load @ 1.6 km/hr - with 284 Hp engine ↑  Gradeability with / without load @ 2.000 rpm / Nominal @ max 2.200 rpm  For optional engine: Maximum @ 2.000 rpm / Nominal @ max 2.200 rpm  Maximum engine torque - Optional 284 Hp engine  Governed speed  Number of cylinders / displacement  Fuel consumption  Drive control  Working pressure for atlachments Ol flow for auxiliary functions Noise level LpAZ, in	b <sub>13</sub> (mm) kmlh m/sec m/sec m/sec m/sec kN kN kN kN kN kN kW % % % % % % % % % % % % %	86 25 0.25 0.28 T.E. 0.50 140 140 161 176 201 19 22 24 27 Oi limmerse 230 Hp (172 kW) 264 Hp (197 kW) 91 51 Sm (6) 22 2 6 Torque C 23 7 7 7	29 26 0,29 0,29 3,D 0,50 145 165 181 205 30 33 33 33 33 33 33 4 <sup>1</sup> Wet discs' QSC 8.3 215 Hp (160 kW) 250 Hp (166 kW) 00 + 1500 rpm 8 270 8	25 0,25 0,28 T, T, T, 0,50 139 160 175 200 17 20 22 25 Oll immerse 230 Hp (172 kW) 264 Hp (177 kW) 915 Nm @ 91 1125 Nm ( 2 6 5 7 7 7 7 7 6	26 0,29 0,29 8,D 8,D 145 165 180 205 29 34 34 34 34 34 34 34 34 34 34	4.36 5.1 5.2 5.2a 5.3 5.5 5.6 5.7 5.7 5.8 5.7 7.1 7.2 7.2.1 7.2 7.2.1 7.3 7.4 7.5 8.1 8.2 8.3 8.4
4.36 5.1 5.2 5.2 5.3 5.5 5.6 5.7 5.8 5.7 5.8 5.7 7.1 7.2 7.2.1 7.2 7.2.1 7.3 7.4 7.5 8.1 8.2 8.3	Internal luming radius Inverse speed with / without load Utifing speed with / without load - with 230 Hp engine Utifing speed with / without load - with 264 Hp engine Utifing speed with 70 % load - with 264 Hp engine Utifing speed with 70 % load - with 264 Hp engine Utifing speed with 70 % load - with 264 Hp engine Utifing speed with / without load Drawbar pull with / without load @ 1.6 km/hr - with 230 Hp engine Max. drawbar pull with / without load - with 264 Hp engine Max. drawbar pull with / without load - with 230 Hp engine Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine Gradeability with / without load @ 1.6 km/hr - with 230 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr - with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr = with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr = with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr = with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr = with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr = with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr = with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr = with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr = with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr = with 264 Hp engine ↑ Gradeability with / without engine / without load @ 1.6 km/hr = with 264 Hp engine ↑ Gradeability with / without load @ 1.6 km/hr = with 264 Hp engine ↑	b <sub>13</sub> (mm) kmh m/sec m/sec m/sec m/sec kN kN kN kN kN % % % % % % % % % % % % %	85 25 0.25 0.25 0.28 T.E T.E 0.50 140 161 176 201 19 22 24 27 Oil Immerse 230 Hp (172 KV) 264 Hp (177 KV) 915 Nm @ 90 1 125 Nm @ 90 1 125 Nm @ 92 6 <b>S</b> <b>S</b> <b>S</b> <b>S</b> <b>S</b> <b>S</b> <b>S</b> <b>S</b>	29 26 0,29 0,29 3,D 0,50 145 165 181 205 30 33 33 33 33 33 33 4 <sup>1</sup> Wet discs' QSC 8.3 215 Hp (160 kW) 250 Hp (166 kW) 00 + 1500 rpm 8 270 8	25 0,25 0,28 T, T, T, 0,50 139 160 175 200 17 20 22 25 Oll immerse 230 Hp (172 kW) 264 Hp (177 kW) 915 Nm @ 91 1125 Nm ( 2 6 5 7 7 7 7 7 6	26 0,29 0,29 B,D 145 165 180 205 29 34 34 34 34 34 34 34 34 215 Hp (160 KW) 250 Hp (186 KW) 2	4.36 5.1 5.2 5.2a 5.3 5.5 5.6 5.7 5.7 5.8 5.8 5.10 7.1 7.2 7.2.1 7.2.1 7.2 7.2.1 7.2.1 8.1 8.2 8.3





Equipment and weight: Container Handlers: Weights (line 2.1) are based on the following specifications: Complete truck with Cab, Pneumatic tyres, 6095 mm BOF (6200 mm TOF) 2-Stage Vista Mast, Dedicated carriage and Telescopic 20'-40' ISO Container Spreader.

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- r1 = radius of swing of container rear corner
- r2 = radius of swing of container front corner
  - Wa = outside turning radius of the truck
  - V = theoretical 90° stacking aisle, no intrusive stacking
  - V = r2 + the larger of r1or Wa
  - a = total operating clearance, a/2 is operating clearance at each side
  - a = according VDI: 200 mm (100 mm each side)
  - a = according FEM TN01 recommendation: 10% of V (5% of V at each side)
- Ast = practical 90° stacking aisle, no intrusive stacking and with clearance
- Ast = V + a. For data see line 4.34

## Capacities

## **Forklift Trucks**

Capacities are valid for complete trucks with Pneumatic tyres, 2-Stage Vista mast with lift height as specified, Dual-function Hook-type Sideshift-Forkpositioners carriage and Quick-disconnect Hook-type forks 2440 mm long.

				H25XM	6-9 capa	cities @ 900mm a	nd 1 200	mm				
	Stacking height/	Mast lift	Mast Iowered			itioners Carriage ar ). 2 440 mm forks	Sideshift-forkpositioners Carriage with ZERO IN-TO-IN forkpositioning and Hook-type Q.D. 2 440 mm forks					
	(20') container height	height TOF (mm)	height (mm)	Capacity in kg at 900 mm load centre	Mast back tilt	Capacity in kg at 1 200 mm Ioad centre	Mast back tilt	Capacity in kg at 900 mm Ioad centre	Mast back tilt	Capacity in kg at 1 200 mm Ioad centre	Mast back tilt	
2 high	8'6" 9'6" 9'6" 9'6"	3 155 3 760 4 370 4 980	3 520 3 820 4 125 4 430	25 000 25 000 25 000 25 000	10° 10° 10° 10°	22 000 22 000 22 000 22 000	10° 10° 10° 10°	25 000 25 000 25 000 25 000	10° 10° 10° 10°	22 000 22 000 22 000 22 000	10° 10° 10° 10°	
3 ngn	9'6"	6 200	5 040	25 000	10°	22 000	10°	24 485	10°	22 000	10°	
4 high	9'6"	9 250	6 565	On request	-	On request	-	•	-	•	-	

				H25	KM-12 capacities (	@ 1 200 mm		
N		Stacking height/	Mast lift height	Mast Iowered	Sideshift-forkposi and Hook-type Q.I		Sideshift-forkposi with ZERO IN-TO-I and Hook-type Q.E	N forkpositioning
it k		(20') container height	TOF (mm)	height (mm)	Capacity in kg at 1 200 mm Ioad centre	Mast back tilt	Capacity in kg at 1 200 mm Ioad centre	Mast back tilt
	2 high	8'6" 9'6" 9'6" 9'6"	3 155 3 760 4 370 4 980	3 520 3 820 4 125 4 430	25 000 25 000 25 000 25 000	10° 10° 10°	25 000 25 000 25 000 25 000	10° 10° 10°
	3 high	9'6"	6 200	5 040	25 000	10°	25 000	10°
	4 high	9'6"	9 250	6 565	On request	-	•	-

	H28XM-12 capacities @ 900mm and 1 200 mm													
	Stacking height/	Mast lift	Mast Iowered			tioners Carriage ar ), 2 440 mm forks	nd	Sideshift-forkpositioners Carriage with ZERO IN-TO-IN forkpositioning and Hook-type Q.D. 2 440 mm forks						
	(20') container height	height TOF (mm)	height (mm)	Capacity in kg at 900 mm load centre	Mast back tilt	Capacity in kg at 1 200 mm Ioad centre	Mast back tilt	Capacity in kg at 900 mm load centre	Mast back tilt	Capacity in kg at 1 200 mm Ioad centre	Mast back tilt			
2 high	8'6" 9'6" 9'6"	3 155 3 760 4 370	3 620 3 920 4 225	30 850 30 850 30 850	10° 10° 10°	28 000 28 000 28 000	10° 10° 10°	30 850 30 850 30 850	10° 10° 10°	28 000 28 000 28 000	10° 10° 10°			
3 high	9'6" 9'6"	6 200 6 810	5 140 5 445	30 850 On request	10° -	28 000 On request	10° -	30 850	10° 10°	28 000	10° -			
4 high	9'6" 9'6"	9 250 9 860	7 175 7 480	On request On request	-	On request On request	-	*	-	*	-			

9'6"	9 860	7 480	On request	-	On request	-	•	-	•	-
			H30XM	S-9 capa	cities @ 900mm a	nd 1 200	mm			
Stacking height/	Mast lift	Mast lowered			itioners Carriage an ). 2 440 mm forks	nd			arriage with ZERO type Q.D. 2 440 mn	
0') container height	height TOF (mm)	height (mm)	Capacity in kg at 900 mm Ioad centre	Mast back tilt	Capacity in kg at 1 200 mm Ioad centre	Mast back tilt	Capacity in kg at 900 mm Ioad centre	Mast back tilt	Capacity in kg at 1 200 mm load centre	Mast back tilt
8'6" 9'6" 9'6"	3 155 3 760 4 370	3 620 3 920 4 225	30 000 30 000 30 000	10° 10° 10°	26 100 26 100 26 100	10° 10° 10°	30 000 30 000 30 000	10° 10° 10°	26 100 26 100 26 100	10° 10° 10°
9'6" 9'6"	6 200 6 810	5 140	30 000 On request	10°	26 100 On request	10°	30 000	10°	26 100	10°

On request On request

				H30XM-1	2 capacii	ties @ 900mm and	i 1 200 n	ım			
	Stacking height/	Mast lift	Mast lowered			tioners Carriage ar ). 2 440 mm forks	nd			arriage with ZERO type Q.D. 2 440 mn	
	(20') container height	height TOF (mm)	height (mm)	Capacity in kg at 900 mm Ioad centre	Mast back tilt	Capacity in kg at 1 200 mm load centre	Mast back tilt	Capacity in kg at 900 mm Ioad centre	Mast back tilt	Capacity in kg at 1 200 mm load centre	Mast back tilt
2 high	8'6" 9'6" 9'6"	3 155 3 760 4 370	3 620 3 920 4 225	32 000 32 000 32 000	10° 10° 10°	30 000 30 000 30 000	10° 10° 10°	32 000 32 000 32 000	10° 10° 10°	30 000 30 000 30 000	10° 10° 10°
3 high	9'6" 9'6"	6 200 6 810	5 140 5 445	32 000 On request	10° -	30 000 On request	10° -	32 000	10° -	30 000 ♦	10° -
4 high	9'6" 9'6"	9 250 9 860	7 160 7 465	On request On request	-	On request On request	-	*	-	*	-

7 160 7 465

9 250 9 860

9'6" 9'6" On request On request

				H32XM	S-9 capa	cities @ 900mm a	nd 1 200	mm			
	Stacking height/	Mast lift	Mast lowered			tioners Carriage ar 0. 2 440 mm forks	ıd			arriage with ZERO -type Q.D. 2 440 mr	
	(20') container height	height TOF (mm)	height (mm)	Capacity in kg at 900 mm load centre	Mast back tilt	Capacity in kg at 1 200 mm load centre	Mast back tilt	Capacity in kg at 900 mm load centre	Mast back tilt	Capacity in kg at 1 200 mm load centre	Mast back tilt
•	8'6" 9'6" 9'6"	3 155 3 760 4 370	3 620 3 920 4 225	32 000 32 000 32 000	10° 10° 10°	28 000 28 000 28 000	10° 10° 10°	32 000 32 000 32 000	10° 10° 10°	28 000 28 000 28 000	10° 10° 10°
	9'6" 9'6"	6 200 6 810	5 140 5 445	32 000 On request	10° -	28 000 On request	10°	32 000	10° -	28 000 ♦	10° -
•	9'6" 9'6"	9 250 9 860	7 160 7 465	On request On request	-	On request On request	-	*	-	*	-

- Carriage with ZERO IN-TO-IN forkpositioning not recommended in combination with lift heights above 6200mm
- H28-32XM-16CH models can also handle half-height (4' or 4'3" high) containers

	Stacking height/	Mast lift	Mast lowered	Sideshift-forkposi and Hook-type Q.I		Sideshift-forkposi with ZERO IN-TO-I and Hook-type Q.E	V forkpositionin
	(20') container height	height TOF (mm)	height (mm)	Capacity in kg at 1 200 mm Ioad centre	Mast back tilt	Capacity in kg at 1 200 mm load centre	Mast back tilt
ußii z	8'6" 9'6" 9'6"	3 155 3 760 4 370	3 620 3 920 4 225	32 000 32 000 32 000	10° 10° 10°	32 000 32 000 32 000	10° 10° 10°
Infillio	9'6" 9'6"	6 200 6 810	5 140 5 445	32 000 On request	10° -	32 000	10° -
R   +	9'6" 9'6"	9 250 9 860	7 160 7 465	On request On request	-	•	-

	H28XM-16CH and H32XM-16CH capacities in kg													
	Stacking	Recomm.	Mast	Maximum	H28XM-16CH with o	dedicated (half-high	H32XM-16CH with	dedicated (half-high						
	height/	Mast lift	lowered	under	mounted) 20'-40' to	elescopic spreader	mounted) 20'-40' to	elescopic spreader						
	(20') container height O	height TOF (mm)	height (mm)	twistlocks (mm)	Spreader reach retracted	Spreader reach extended	Spreader reach retracted	Spreader reach extended						
2 high	8'6"	6 200	5 650	7 155	25 100	22 850	30 480	27 300						
	9'6"	6 200	5 650	7 155	25 100	22 850	30 480	27 300						
3 high	9'6"	9 250	7 175	10 195	25 100	22 850	30 480	27 300						
4 high	8'6"	9 860	7 480	10 815	25 100	22 850	30 480	27 300						
	9'6"	11 080 🔾	8 090	12 035	TBA	TBA	TBA	TBA						

## **Dedicated Container Handlers**

Capacities are valid for complete trucks with Cab, Pneumatic tyres, 2-Stage Vista mast with lift height as specified, Dedicated carriage and 20'-40' Telescopic ISO container spreader.

Care must be exercised when handling elevated loads. When the load is elevated, truck stability is reduced. It is important that mast tilt in either direction be kept to a minimum when loads are elevated. Operators must be trained and adhere to the instructions contained in the Operating Manual.

Lifting capacities are in conformance with standards ISO 1074 (Fork lifts) or ISO 10525 (Container Handlers).



1951 Hyster A-model



1968 Hyster B-model



1983 Hyster C-model



1991 Hyster F-model



## **Built on Experience**

#### **Five Hyster Generations**

The H25-32XM Series benefits from Hyster's 80 years of experience designing and building forklift trucks and almost 60 years of experience of manufacturing Big Trucks, with lifting capacities over 16 tonnes. These H25-32XM trucks are already the 5th generation machines, since Hyster started producing the first trucks in this capacity range - the 'A' Series - in 1951.

The H25-32XM Series has been designed for the demanding applications in the heavy industry and container handling sectors. These trucks offer impressive value, in a high-specification package: a unique blend of high productivity, reliable proven components, fuel efficiency and outstanding driver comfort.

H32XM-12



# **Added Value**



### Nine in a Row

- Seven mid-range Forklift Trucks from 25 tonnes @ 900 mm up to 32 tonnes @ 1200 mm load centre.
- > Three of these FLT's are ultra-compact 'S' models, able to work in very restricted operating spaces.
- > Two Dedicated Container Handler models offer uniquely high container lifting capacity.

#### **Uniquely Compact**

 Ultra-compact 'S' (Short) models H25XMS-9, H30XMS-9 and H32XMS-9 feature a uniquely short wheelbase, ideally suited to applications with extreme operating space restrictions.

## Strong and Durable

- Large 8.3 litre Cummins QSC8.3 industrial diesel engine (de-tuned). The industrial rating of 230 hp, optionally 264 hp (optional), ensure increased dependability for long periods of peak power operation.
- Oil-immersed 'wet discs' brakes reduce maintenance requirements.
- The tropical cooling system ensures that the trucks are able to work in ambient temperatures of up to 50°C for normal applications or 45°C for heavy-duty operations.

#### Productive

- Lifting speeds are class leading: The practical 4-mode average speed is an impressive 0.39 to 0.41 m/sec, with the standard 230 hp engine.
- > Auto-shift 3-speed powershift transmission is standard.

## Clean

The QSC8.3 Cummins diesel has low exhaust emissions and conforms to EC Tier 3 NRMM emissions standards.

#### Efficient

- H25-32XM trucks feature power-on-demand load-sensing hydraulics - an effective way to substantially reduce fuel consumption.
- Fuel economy is best demonstrated by the official Cummins 'specific fuel consumption' data: a low 228-236 g/kW-hr., at maximum engine torque.

## **Simply Versatile**

- > The Hyster 'Dual-function' fork-carriage offers two forkpositioning ranges, in addition to sideshift. A uniquely simple 'Outer' and 'Inner' mounting position for the forkpositioning cylinders delivers additional application versatility. A 'Zero in-to-in' Forkpositioning version is optional, where two forks can also be moved together to handle one coil.
- > The Dual-function carriage is also Hook-type, with a 'Quick-disconnect' feature for fast interchange between forks and a coil ram or another handling attachment.

#### Visibility

- > The Hyster 'Vista' Operator's Compartment is located in a mid-high, forward position to maximise all-round visibility.
- The wide open mast construction and a low-profile yet high-visibility carriage offer excellent visibility to forks/load.
- The sloping design of the counterweight greatly enhances visibility to the rear.

#### Comfort

The industry leading design of the Hyster 'Vista' Operator Compartment offers excellent comfort, all-round visibility, outstanding ergonomics and a low noise level of 76 dB(A) with cab configuration, according to EN12053.



# **Strength and Durability**

### Frame

 The H25-32XM features an immensely strong integral frame, with massive supports for the mast and axles.

#### Industrial

> Hyster uses the 8.3 litre large displacement Cummins engine 'QSC8.3', with a de-tuned industrial rating of 230 hp or optional 264 hp. This industrial rating offers extra dependability for long periods of peak power operation.

## **Tropical Cooling**

- The tropical cooling system ensures that trucks are able to work in normal applications in ambient temperatures of up to 50°C, or up to 45°C for heavy duty operations.
- > A unique 'stacked' 4-piece radiator cooler block has 4 separate elements for: Engine (coolant & turbointercooler), the transmission, and the 'wet discs' brakes and hydraulic system. Cooling is highly efficient as each of the 4 elements receive direct fresh cooling air.

#### Wet Brakes

The AxleTech drive axle (PRC-1794 on H25XM models, PRC-3806 on H28-32XM models) is a planetary doublereduction type, providing stability and durability, whilst the oil-immersed 'wet disc' brakes reduce maintenance requirements.

#### **Forward-Reverse**

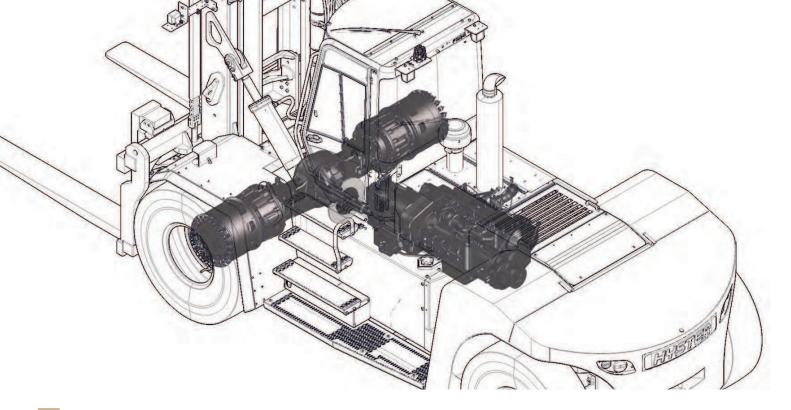
- The S.O.H. TE17-series 3-speed powershift transmission features the APC200 Soft-shift automatic gear shifting system, and is also fitted with a protective forwardreverse shifting lock-out, active at over 5 km/h and more than 1400rpm.
- > Hyster's 'sandwich' type steer axle, with a single cylinder and non-adjustable tie rods is renowned for its long life and low maintenance requirements.

#### Protection

An engine and transmission protection system is standard equipment. This system initially derates engine power and finally shuts the engine down, helping to prevent possible damage. The protection acts on high engine coolant temperature or low oil pressure, plus on transmission low oil pressure and high oil temperature.

### Strong Mast

The masts of H28-32XM(S)-9/12 offer extra strength thanks to the unique '6-roller' construction, for lift heights up to 6.20m - low build-height for typical indoor and outdoor applications is combined with immense strength.



# Productivity

## Smooth

- > Power is provided by a Cummins QSC8.3 industrial diesel engine, with turbocharger and charge air cooler. This large displacement 8.3 litre 6-cylinder engine has a very smooth torque characteristics. No less than 915 Nm of torque is available from 900 rpm up to1500 rpm. The result is excellent lifting and acceleration power, combined with low fuel consumption.
- Engine performance is ample with 230 hp (172 kW) as standard. An optional power package of 264 hp (197 kW) is available for extensive peak-performance operation in demanding applications.

## **On Demand**

Lift trucks use a major portion of the engine power for hydraulic lifting functions. Therefore Hyster has equipped the H25-32XM with load-sensing 'Power on Demand' hydraulic pumps, where the applied hydraulic lifting power (and therefore engine power) is adjusted 'on demand' by the actual load weight lifted.

The truck only provides maximum power on demand, when it is really needed. In other words, load-sensing hydraulics offer noticeable advantages: Easier lifting and decreased wear on all hydraulic components and the engine.

## Lifting Speeds

 Lifting speeds are class leading: The practical 4-mode average (of laden- & unladen lifting, plus laden- & unladen lowering) speed is a fantastic 0.39 to 0.41 m/sec. The optional 264 Hp engine delivers a 0.03 m/sec higher laden lift speed for peak productivity requirements.

#### Clean

- > The low exhaust emissions of the Cummins QSC8.3 industrial diesel engine conform to the stringent EC Tier 3 emissions standard for NRMM (Non-Road Mobile Machinery).
- A heavy duty engine air filter is standard. It has a maintenance-free 'SyKlone' cyclonic pre-cleaner, plus a 2-stage filter, making it suitable for dusty operating environments.
- A 'puller' type cooling fan draws in cleaner air, from the top of the truck (not from underneath).

#### Soft-shift

- > Both engine power versions come with the S.O.H. (Spicer Off-Highway) model TE17 three-speed powershift transmission, equipped with the intelligent APC200 'Soft-shift' auto-shift logic, plus it has a protective forward / reverse shifting lock-out to protect the transmission against abuse operation.
- > A back-up alarm, with self-adjusting level, sounds when in reverse gear.

#### Hot or Cold

> H25-32XM trucks can work in ambient temperatures ranging from -18 °C up to +50 °C, in standard configuration with no additional options required.



Sideshift Carriage with **Standard** Forkpositioning range -Forks in 'Outer' FP cyls position



Sideshift Carriage with **Standard** Forkpositioning range -Forks in 'Inner' FP cyls position

Standard



Sideshift Carriage with Independent Forkpositioning (forks move separately)



Simultaneous Forkpositioning (forks move in & out together)

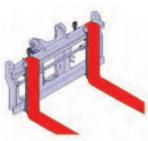
Choice

Sideshift Carriage with 'Zero in-to-in' Forkpositioning range Forks in 'Outer' FP cyls position



Sideshift Carriage with **'Zero in-to-in**' Forkpositioning range Forks in 'Inner' FP cyls position

Option



Carriage without Sideshift and without Forkpositioning (with forks retainer bar)



Coil Ram - Hook-type for quickdisconnect

## **More Options**

# **Simple Versatility**

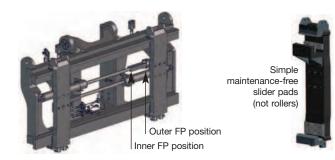
The simplicity and versatility by the 'Dual-function' carriage of the Hyster H25-32XM, sets a new standard for large forklift trucks, by offering unique built-in flexibility for various fork handling duties.

## Versatile

- This Hyster designed and built carriage has a Hook-style design with a 'quick-disconnect' (dis)mounting feature for the forks, enabling fast exchange between forks and e.g. a coil ram.
- It features Sideshift (SS) and Forkpositioning (FP) as standard.
- It is equipped with two Forkpositioning working ranges -An Outer- and Inner FP position on the FP cylinders enables a uniquely wide 'in-to-in' or 'out-to-out' working range of the forks (dimension b5).

## Simplicity

Slider pads (not rollers) are used as simple- and cost effective bearings for the movement of the forks on the carriage. Owners of H25-32XM machines will benefit from Hyster's long experience (over 20 years) in successfully using synthetic material slider pads in lift truck carriages.



## Choice

 'Individual' FP (forks move separately) is the standard, with an optional choice of 'Simultaneous' FP (forks move together).

## Option

'Zero in-to-in' FP range is optional (also with above two FP ranges). In the Inner FP position the two forks can then be moved together to handle one coil. Available with. max 6.20 m lift height mast.

## **More Options**

- Coil ram pole, Hook-type quick-disconnect style, for fast exchange with (hook-type) forks.
- Carriage without Sideshift and without Forkpositioners functions. For very basic handling requirements.





# H28-32XM-16CH Dedicated Container Handlers

Since 1986 Hyster FLT type Dedicated Container Handlers have set the standard in highest net container lifting capacity.

For example: The 32 tonne model H32XM-16CH with Hyster 20'-40' container spreader (weight 6.3 tonnes) still lifts a container weight of 30.5 tonnes.

The secret is the still unique Hyster 'Dedicated Carriage' that supports the container spreader.

## **Dedicated Carriage**

This unique 'Dedicated Carriage' is the key construction element of 'masted' Hyster Container Handlers and offers in total four significant operational advantages:

## **Highest Lifting Capacity**

- For example: H28XM-16CH with Hyster 20'-40' container spreader (of 6.3 tonnes) still has net of 26.4 t capacity. And this at a load centre of 1390 mm (not 1220 mm).
- The dedicated spreader mounting delivers a remarkable reduction in 'load distance' (dimension 'x' is only 790mm). See page 5 for all the excellent net container lifting capacities.

## **Unique Simplicity**

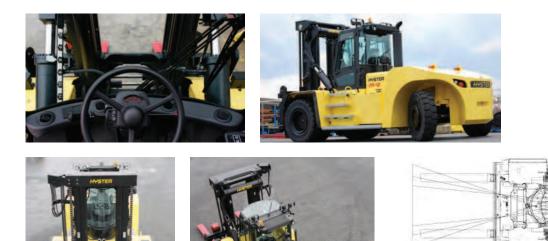
> The dedicated carriage mounting is uniquely simple. With very few moving and wearing parts (e.g. no suspension linkages, no ball-joints) it features a virtually maintenance-free spreader mounting.

## Less Heavy

- A significant reduction in front-end weight (of 4-4.5 tonnes compared to the conventional forkmounting of a container spreader) directly results in more container lifting capacity.
- > With this reduced 'load distance' plus the lighter weight of the dedicated mounting, a 7% reduction in laden front axle loading is a welcome result that ensures lower floor loading and reduced tyre wear.

## Half-high

> H28-32XM-16CH Dedicated Container Handlers have a 'half-high'-mounted position of the container spreader as a standard feature. This means that in addition to the usual full height 8'6" - 9'6" high containers, the machine has the additional versatility to also handle 'half height' 4' - 4'3" high containers.





All-round visibility is an outstanding benefit of the H25-32XM trucks. This is thanks to the combination of a class-leading operator compartment design (the Hyster 'Vista' cab), an open-view mast, a high-visibility carriage, plus the bevelled counterweight shape.

### **Operator Position**

> The operator is ideally positioned, mid-high and towards the front, for optimal visibility of the fork handling operation at hand. This mid-high placement also gives excellent vision sideways and rearwards, boosting driver confidence.

#### Hyster 'Vista' Cab

The fully equipped Hyster 'Vista' cab (option on FLT models) stands out on all-round visibility aspects:

> The top window is rounded at the front, so the wiper covers this shape fully. A clever internal overhead guard with 'angled' bars minimises obstruction too. > The curved front window is not a styling element - as the front cab pillars are positioned far back, the operator has a significantly wider view, which is extremely beneficial when handling wide loads or 20' containers.



- > The doors feature glass panels in both the upper and lower part of the frame that really enhance sideways visibility.
- The low position of the front dash panel ensures excellent visibility directly in front of the cab.
- The cab features an effective heating and demisting system with multiple outlets front and rear.

Wipers (parallel system in front) and washers are located on the front, top and rear screens. Two inside panorama type rear-view mirrors, plus two outside rear-view mirrors contribute to the excellent visibility.

### **Open Mast**

- > The Hyster 'Vista' mast has a fully open design: The lift cylinders are behind the mast channels plus the lift chains are outside-mounted but also nested away for optimum visibility.
- Visibility is further improved by the unique (Hyster designed) 'angled' position of the hosegroup over the mast.

#### **High-visibility Carriage**

> The Hyster 'Dual function' carriage features an open design, which promotes visibility, even at 'seethrough' lorry-bed height.

#### **Functional Design**

 Rearwards visibility is greatly enhanced by the sloping design of the counterweight, which tapers down towards the rear of the truck.



## **Driver Comfort & Ergonomics**

The Hyster 'Vista' operator compartment (available either as Open Operator Module or as a fully equipped Cab) is the acknowledged 'state-of-the-art' driver's environment in the industry today.

## Comfort

- > The Hyster 'Vista' fully equipped cab (option on FLT model) is pressurised and ventilation air is filtered via an interior filter element, to keep dust out.
- Effective heating with 3-stage blower and extensive ventilation / demister air outlets.
- Low noise level at drivers ear of only 76 dB(A) per EN12053 (only 75 dB(A) per BITA). The operator compartment is mounted on anti-vibration isolators.
- The fully adjustable suspension seat has armrests, a high backrest and safety belt. Optional: Air-suspension (Deluxe) seat.
- Sliding windows in both cab doors. Door locking device while driving with the doors open.
- Driver on-off access is comfortable, with wide anti-slip steps and conveniently placed handrails.

#### Controls

- Steering column is adjustable for both height and angle and the soft-grip steering wheel features a spinner knob for finger light operation.
- The 3-directions adjustable armrest console suspends with the seat and houses the controls: Levers and switches (FLT) or single-handle Joystick control (CH); Directional lever with forward / reverse shifting protection
   Auto-soft-shift function (manual shifting possible).

 Responsive hydraulic brakes and automotive style pedal layout.

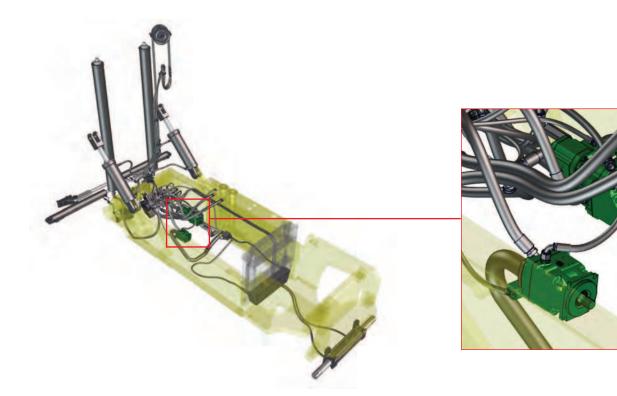
#### Instruments

 Conveniently located dash display, to the right of the operator, to ensure maximum forward visibility. A set of flashing LED warning lights,



positioned on the steering column, catch the driver's attention, should he need to refer to the readout on the dash display at any time.

- Analogue display for: Hour meter, fuel level, battery charge, engine oil pressure and coolant temperature, transmission pressure and temperature.
- > Warning lights for: Lights on, wiper and washer functions, battery charge, low brake pressure.
- > Audible warning for: Low brake pressure. The reversedriving beeper has a self-adjusting sound level of 5 dB(A) above the surrounding sound level, so is effective but avoids possible annoyance for other personnel.



# **Efficiency & Lower Operating Costs**

Lift trucks consume a major portion of the engine power for the hydraulic lifting and tilt functions, rather than for driving at speed.

That is why Hyster has optimised this important power consumption (and fuel consumption) function, by designing an efficient so-called 'Power on Demand' loadsensing hydraulic system.

## **Power on Demand**

- A 'Power on Demand' hydraulic system is load-sensing, so 'feels' the load weight that is lifted. Depending on that actual load weight, two so-called 'variable displacement' (piston-type) hydraulic oil pumps supply the required hydraulic power, but no more. This is in contrast to conventional 'fixed- displacement' (geartype) pumps.
- This system also makes the lifting function more operator friendly and contributes to the decreased wear of hydraulic components and the engine. The life of the hydraulic oil is also extended.

So the load (weight), these variable displacement oil pumps and the diesel engine are linked.

## **Fuel Saving**

> As maximum loads are not always handled (and many lift modes are without load), the truck requires less engine power and will consume less fuel, with savings of 5% to 15%.

### 'Green' Pumps

> The load-sensing system with 'variable displacement' pumps really is 'green' as power is not wasted, neither in 'light' operating conditions nor when working up to the maximum hydraulic performance.

#### **Proven Hydraulics**

> Well proven hydraulic components by Sauer-Danfoss are used. 'Power on demand' hydraulics are already proven, including the positive 'green' effects, in hundreds of Hyster ReachStackers.

#### **Oil Filtration**

> Hydraulic oil is effectively filtered at three locations: In the hydraulic tank (two 5l main filters), at the brake pump (5l filter) plus a 20l filter in the 'wet discs' brakes cooling circuit.

Hydraulic tank capacity 274 litres (H25XMS-9: 237 litres). (A light on the dash warns of high hydraulic oil temperature)

### **Performance Tuning**

> The operating speed of the hydraulic functions (lift, tilt, sideshift, forkpositioners or auxiliary) can be adjusted (by your Hyster service technician), to optimise them for a specific application, e.g. for low or high lifting heights or the use of a hydraulic attachment. The user can choose either maximum energy saving or maximum performance, or the best balance of the two. The factory setting is at this mid-point and the alternative settings provide lower or higher speeds.











## Service Made Easy

## Tilting Cab

> The tilting cab is a standard feature on Hyster Big Trucks, however not a common sight in the industry. The cab can be-tilted to the right-hand side, by hand lever. An electrical push button powered tilting system is available as an option. This side-tilting Hyster 'Vista' cab together with the gas-spring assisted 'gull-wing' shaped engine hoods and a rear opening hood, offer excellent service access to all components, ensuring maintenance is efficient and easy.

#### **Hydraulics**

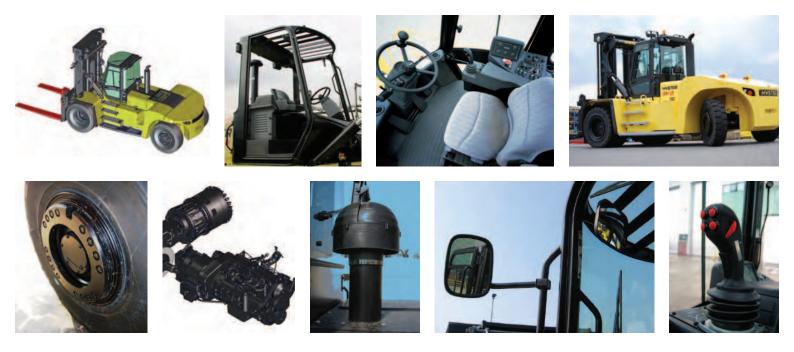
- Hydraulic oil level can be easily checked by a sight-glass on the side of the tank. Leak-free O-ring 'ORFS' hydraulic fittings are used throughout the machine. (A light on the dash warns of high hydraulic oil temperature)
- Hydraulic functions can be adjusted in speed (by your Hyster service technician), and optimised for a specific application.

## Electronics

- > The CANbus wiring connection for the engine, transmission and instruments cluster and the electronic control unit for the load-sensing hydraulics are both located inside the operator compartment's side-console.
- All error codes are shown on the dash display's LCD screen.

#### Easy to Access

- > The central cooler (built-up of 4 separate elements) can be easily accessed for cleaning, via a separate flip-up grill.
- The truck also features centralised pressure check points and a digital pressure indicator on the brake system accumulator.
- > The hydraulic oil level is easily checked with a sightglass located on side of the hydraulic tank.
- > Increased service intervals of 500 hrs.



## **Standard Equipment**

## 'Vista' Operator Compartment

- > Forklift (FLT) models: Open Module.
- > Container Handling (CH) models: Fully Equipped Cab.
- FLT: Levers for mast lift & tilt and sideshift, plus switches for forkpositioners.
- CH: Joystick for 'single-handle' intuitive control of mast lift, tilt and spreader functions
- > Mechanical full-suspension seat with high backrest and seat belt. Two wide-view rear view mirrors inside, plus two extra outside rear view mirrors. Manual cab tilt (for service access).

#### Instruments

- Conveniently side-positioned dash display, with LED warning lights on the steering column.
- Gauges for: Hour meter, fuel level, battery charge, engine oil pressure and coolant temperature, transmission pressure and temp.
- Warning lights for: Lights on, wiper and washer functions, battery charge, low brake pressure.
- Beeper warning for: Low brake pressure, back up alarm when in reverse gear.

#### Drivetrain

> 230 hp Cummins QSC8.3 Industrial diesel engine. Conforms to EC Tier 3 NRMM emissions; Heavy duty engine 2-stage air filter plus 'Sy-Klone' maintenance free pre-cleaner; Fuel tank 364 litres (H25XM-9: 305 litres); Aluminised steel anti-corrosive exhaust; Tropical cooling for engine, transmission, brakes and hydraulic system.

- SOH TE17 Auto-shift transmission, APC200 'Soft-shift', forward-reverse shifting lock-out; Reverse-driving beeper.
- Engine and transmission protection system; Drive axle with oil-immersed 'wet discs' brakes; Steering axle with wheel nut protection rings; Pneumatic bias ply tyres.

#### Electrics

 > 24 V system, 70 A alternator, batteries 204 Ah (20 hr.). Battery master switch; CANbus connection for engine, transmission, instruments cluster; All sealed electrical connectors.

#### **Hydraulic Functions**

 FLT models: 5 way valve and hosegroup for lift, tilt, sideshift and 2 forkpositioners.
 CH: 7 way functions.

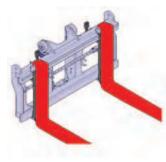
#### Lights

FLT models: Base lightkit: 2 Head lights front, 2 Rear work/drive lights on the cab, 2 Combination LED tail- & stop- & rear driving lights recess-mounted in the counterweight.

CH models: Complete lightkit: Base lightkit plus lightkit no.1: 4 work lights on the cab; Plus orange strobe light on cab; 4 direction indicators with hazard switch.

#### Front-end

- Mast: 'Vista' 2-Stage mast with 3760 mm TOF lift height. Mast tilt: 6 degrees forward and 10 degrees back
- Carriage: Dual function type with sideshift and standard forkpositioners (FP) with 'outer' and 'inner' positions of the FP cylinders for a wider fork positioning work range.
- Forks: Hook-type quick-disconnect 2440 mm long; Suitable for 20' ISO container pockets.

















# **Optional Equipment**

## **Operator Compartment**

- Forklift (FLT) models: 'Vista' Fully Equipped Cab. CH models: Open Operator's Module.
- > FLT: Joystick control, instead of levers.
- In-Cab & Operator convenience items: Roller sun screens on top and rear screens (cab only). Air-conditioning (FLT model: if with optional 'Vista' cab); Heavy-duty air-conditioning. Climate control; Air suspension seat; 'DeLuxe' air suspension seat (optional with seat heating); Trainer seat with seat belt; Support bar for communication equipment; Converter 24 V to 12 V DC for accessories; Radio preparation; Map reading light; Extra air circulation fan; Storage box; Air horn; Powered cab tilt; Engine shut-down on driver presence.

#### Drivetrain

- > 264 hp Cummins QSC8.3 Industrial diesel engine.
- Reduction of the maximum drive speed to 16 or 20 km/hr.

## Tyres

 Radial tyres (with tread or as 'slicks'); Solid (PSS) tyres subject to application approval.

## Lights

- FLT: Lightkit 1: 4x cab-mounted work lights or Lightkit 2: 2x mast-mounted work lights; Orange strobe light on cab; 4 direction indicators (turn signals) with hazard switch.
- HID (Xenon) work lights, instead of standard halogen type.

## Hydraulics

 Hydraulic accumulator (shock absorber) in lift system (mandatory with solid PSS tyres).

#### Front-end

- Mast lift heights from 3155 to 9860 mm TOF, other lift heights available on request; Mast tilt indicator; Mast tilt angle 15 degrees forward.
- Carriage with simultaneous Forkpositioning, instead of independent; Carriage with 'Zero in-to-in' Forkpositioning range (not recommended above 6.20 m lift height); Carriage without Sideshift and without Forkpositioners, (for very basic handling requirements).
- > Coil ram pole Hook-type quick disconnect type.

## **Other Options**

- Lifting eyes, 2x on the mast and 2x on the rear of the truck.
- > Mudflaps front and rear.







# 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 materials 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 programmes to ensure that you get the best possible value. Our business is dealing with your materials handling needs so you can focus on the success of your business today and in the future.



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