



J10-18XD SERIES TECHNICAL GUIDE

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CLEAN POWER THAT MEANS BUSINESS



Hyster is proud to offer a line of electric high-capacity lift trucks within our extensive big truck range. Think you can't get ICE-performance from an electric truck? Think again.

Our clean-power lift trucks are designed to maintain the performance and efficiency you've come to expect from Hyster. You get exceptional traction power and acceleration, while benefiting from a quiet cabin with outstanding visibility and ergonomic, productivity-enhancing features. The high-powered lithium-ion battery helps eliminate emissions, reduce fuel consumption and saves you maintenance time and costs.

LITHIUM-ION POWER THAT DELIVERS ON PERFORMANCE

The Hyster[®] J10-18XD lift trucks are powered by 350-volt lithium-ion battery packs. Hyster chose to integrate lithium-ion power, because compared to 120-volt lead acid batteries, the 350-volt lithium-ion battery is simply more energy efficient. Lithium-ion batteries produce higher performance throughout the charge cycle and have a longer life cycle, helping to reduce your total cost of ownership. Zero maintenance and fast charging times contribute to big savings and more uptime.

WHY LITHIUM-ION AND 350V?









Every application requires a unique amount of daily energy. Whether the truck is used for periodic operation or continuous operation, Hyster can provide a charging strategy to meet your needs.

The integrated lithium-ion battery system provides a customized solution through its modular battery pack. Therefore, the truck can be equipped with up to 4 battery packs to store the necessary power required to manage your operational needs without having to stop and re-charge batteries. When required, opportunity charging can be performed quickly, making shift changes and breaks productive.

Your Hyster® dealer can work with you to determine your requirements and configure your battery system to suit your operation. Below are a few examples of how this configuration could occur.

UNLOADING A TRAIN	MOVING LOADS To feed a process	HEAVY LOADING Continuously
 A train arrives daily once a day with a load of steel bars up to 15t for further processing. It requires the truck to work intensely for 2.5 hours. Up to 15t of load Fuel consumption 6 litre per hour Operational for 2.5 hours per day 	A factory is loading concrete molds up to 16t from one room to another. Up to 16t of load Fuel consumption 6 litre per hour Operational for 6 – 8 hours per day	 A manufacturer and distributor of wood-based panels up to 14t uses the trucks to transport goods around the factories throughout the day, continuously. Up to 14t of load Fuel consumption 8 litre per hour Operational for 10 –15 hours/day
 1 out of 3 battery packs needed Small charger needed 	 2 out of 4 battery packs needed Opportunity charging during breaks 	 2 out of 3 battery packs needed Opportunity charging during breaks and shift change

BATTERY CHARGER SPECIFICATIONS

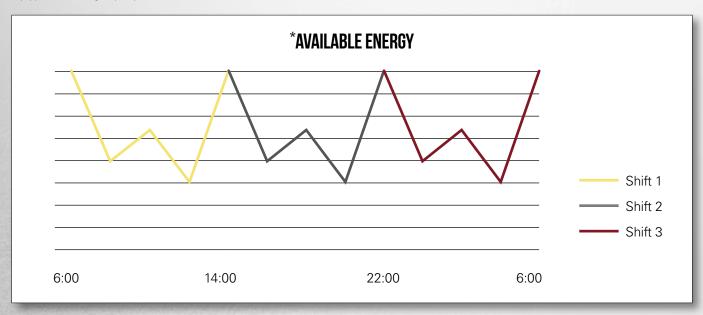
Your battery charger size will also depend on your application usage. A small charger should be used for long charging times, when your truck is used intermittently and can sit for long periods of time to be charged. A large charger should be used for opportunity charging, when your truck can't experience much downtime because it is being used continuously. Chargers must be connected to an electrical grid such as the general electric grid or electricity that is produced through renewable energy sources.

			E	NCLOSURE S	SIZE		CHARGER								
INPUT VOLTAGE	CHARGE RATE (KW)	RATING (A)	HEIGHT			IESS ENCLOSURE PLUG WEIGHT CABLE LENGTH		OPERATING RANGE	MANUFACTURER	P'WALL					
			ММ	мм	ММ	KG	М	С							
	10	16/16													
400V, 3	36	63/56	1654	1654	1006.5	503	503	503	503	503	435		-20° to 50°	Bassi	
Phase,	50	125/78										7.62			
50Hz	80	125/125	1654	1822	503	975									
	90	250/141	1054	1022		503	503	503	503	975					

Wall power cable not included.

Enclosure Rating IP54.

Equipped with emergency stop and anti-arc.



The graph represents the battery state of charge in a 3-shift operation. Based on your application data this graph can be created upon request.

NOTES:

Specifications are affected by the condition of the vehicle and how it is equipped, as well as the nature and condition of the operating area. Inform your dealer of the nature and condition of the intended operating area when purchasing your Hyster® truck.

(1) Rated power(2) Peak power

All capacities are according to EN1459.

All specifications and capacities are valid for trucks equipped with a Hyster^ $\!\!\!^{\otimes}$ container handling spreader for handling ISO container.

NOTICE:

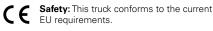
Care must be exercised when handling elevated loads. Operators must be trained and must read, understand and follow the instructions contained in the Operating Manual. All values are nominal values and they are subject to tolerances. For further information, please contact the manufacturer.

Hyster products are subject to change without notice.

Lift trucks illustrated may feature optional equipment. Values may vary with alternative configurations.

CERTIFICATION: Hyster lift trucks meet the design and construction requirements of B56.1-1969, per OSHA Section 1910.178(a)(2), and also comply with the B56.1 revision in effect at time of manufacture. Certification of compliance with the applicable ANSI standards appears on the lift truck. Performance specifications are for a truck equipped as described under Standard Equipment on this Technical Guide. Performance specifications are affected by the condition of the vehicle and how it is equipped, as well as by the nature, condition of the operating area, proper service and maintenance of the vehicle. If these specifications are critical, the proposed application should be discussed with your dealer.

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



Specification data is based on VDI 2198.

J10XD, J12XD, J13XD6 SPECIFICATIONS <



1-	1	Manufacturer (abbreviation)							HYS	TER								
3 1-3		Manufacturer's type designation			J10X				J12)				13XD6					
		Power train / Voltage			Electric	/ 350	V		Electric	/ 35	i0 V	Elect	tric / 350 V					
1-		Operator type: hand, pedestrian, standing, seated, orderpicker			sea				se				seat					
1-		Rated capacity / rated load	۵	kg								10,500 12,500						13,500
1-1		Load centre distance	С	mm	600				600			600						
1-		Load distance	x	mm	804				80				889					
1-		Wheelbase	У	mm	2,90				2,9				3,300					
2-		Service weight (1)		kg	14,7				16,0)27	0.050		18,947					
2-3		Axle loading, laden front / rear		kg	23,347		1,925		6,174		2,353	29,239	2,408					
2-3		Axle loading, unladen front / rear		kg	7,763		7,009	1	7,622		8,405	10,448	8,49					
3-		Tyres: L = pneumatic, V = solid, SE = Pneumatic Shape Solid							L	-								
3-:		Tyres size, front							10.00-20									
3-		Tyres size, rear							10.00-20		ipr							
3-		Wheels, number front / rear (x = driven wheels)							4X									
3-		Track width, front	b10	mm	1.00			1	1,8			1						
3-		Track width, rear	b11	mm	1,93	30			1,9				2,000					
4-		Mast tilt : forward / backwards	α/β	(°)				100	15° /	12°		1	4 100					
4-:		Height of mast lowered (unloaded)	h1	mm			4,	,132					4,193					
4-:		Free lift Lift beicht (bettem of forke)	h2	mm				-					-					
4-		Lift height (bottom of forks)	h3	mm				,925					4910					
4-!		Height of mast extended (unloaded)	h4	mm				,594					6,648					
4-		Height of overhead guard (closed cab)	h6	mm				,042					3,110					
	7-1	Height of overhead guard (closed cab w/ airco)	h6	mm				,042					3,110					
	7-2	Height of overhead guard (closed cab w/ strobe light)	h6	mm				,137					3,205					
	7-3	Height of overhead guard (closed cab w/ work lights)	h6	mm				,191					3,259					
	-7-4 •	Height of overhead guard (closed cab w/ airco & strobe light)	h6 h7	mm				,167					3,235					
4-		Seat height (Seat Index Point, ISO 5353)		mm				,835					1,903					
	12	Coupling height	h10	mm				649					717					
4,1		Overhang	15 11	mm				809					809					
4-		Overall length		mm				,733					6,828					
	20	Length to face of forks	12	mm				,513				4,998						
4-:		Overall width truck	b2	mm				,464	.			2,541						
	22	Fork dimensions	s/e/l	mm				00 / 1,220				90 / 200 / 1,830						
	23	Carriage type	10		2.20	00	75 mm s	ta pin ty		00		85mm std pin type						
	24	Carriage width	b3 b5	mm	2,39	90	470	(2220	2,3	90		47	2,496					
	25	Distance over fork arms, minimum / maximum		mm			470	/ 2320				4/	0 / 2420					
	30 31	Sideshift (min / max)	b8	mm	-		,	-					- 245					
	-31	Ground clearance, under mast (w/o load)	m1 m2	mm				250 273				341						
	33	Ground clearance, centre of wheelbase Load size	w x l	mm mm			4	213	1,200 x	12	00		341					
		Aisle width (a=10%)	Ast	mm			6	,727	1,200 X	(1,2)	00		7,340					
		Aisle width (a=0)	Ast	mm				,115					6,673					
		Aisle width (a=200)	Ast	mm				,315					6,873					
	34	Load size	w x l	mm			0,	,010	1,200	v 80	0		0,075					
		Aisle width (a=10%)	Ast	mm			6	,287	1,200	× 00	iu ii		6,900					
		Aisle width (a=0)	Ast	mm				,715					6,273					
		Aisle width (a=200)	Ast	mm				,915					6,473					
	34-3	Turning radius (outer)	Wa	mm				,915 ,111					4,584					
	36	Internal turning radius	b13	mm				,545					1,890					
5-		Travel speed laden/unladen (2)	210	km/h				2/32.2					.8 / 24.8					
5-3		Lifting speed laden/unladen		m/s) / 0.54					41 / 0.46					
5-3		Lowering speed laden/unladen		m/s			0.00	, 5.51	0.50/	0.4	8	0	,					
5-		Drawbar pull laden/unladen (1)		kN			23	3/25	0.007	J. 1	-		30 / 33					
5-		Max. Drawbar pull laden/unladen (2)		kN				3/50					65 / 65					
5-		Gradeability laden/unladen (1)		%	10/	18	10	1	8/	16			10 / 18					
5-		Max. Gradeability laden/unladen (2)		%	20 /				17 /				20 / 28					
6-		Drive motor rating Peak/Continuous		kW	207			1	108			· · · · ·	/					
		Lift motor rating Peak/Continuous		kW					166									
6-: 6-:		Battery according to DIN 43531/35/36 A, B, C							N									
6-		Battery voltage/nominal capacity		V / Ah			358 1	192/38				358 1	192 / 384 / 576					
8-		Type of drive unit						, 20	AC Ele	ectri	ic		, ,					
8-3		Drive axle Manufacturer / Type							Kessle									
8-		Service brake							Oil immer									
8-!		Parking brake							Dry disc on									
)-1	Operating pressure for attachments		MPa					22									
)-2	Oil volume for attachements		l/min					10									
)-3	Hydraulic tank capacity					1	135					140					
)-5	Steering design							/draulic po	wer	steering							
)-6	Number of steering rotation						,	4.									
)-7	Sound pressure level at the driver's seat		dB (A)					TB									
)-7-1	Sound power level during the working cycle		dB (A)					TE									
		Towing coupling, model / type							Yes /									

(1) Rated power (2) Peak power

> J14XD6, J10XD12, J16XD6 SPECIFICATIONS

1-1	Manufacturer (abbreviation)					HYS	STER			
1.0	Manufacturer's type designation			J14>	(D6	1	(D12	J16>	(D6	
CHARACTERISTICS	Power train / Voltage			Electric	Electric / 350 V Electric / 350 V				/ 350 V	
<u> </u>	Operator type: hand, pedestrian, standing, seated, orderpicker			seat seat				seat		
2 1-5	Rated capacity / rated load	۵	kg	14,5	14,500 10,500				600	
1-6	Load centre distance	C	mm	60	0	600				
1-8	Load distance	x	mm	88		88		88		
1-9	Wheelbase		mm	3,3		3,3		3,3		
2-1 2-2 2-3	Service weight (1)	1	kg	19,7			895	20,5		
2-2	Axle loading, laden front / rear		kg	30,668	2,774	27,041	2,549	33,557	2,695	
	Axle loading, unladen front / rear		kg	10,431	9,316	10,699	9,196	10,412	10,140	
3-1 3-2	Tyres: L = pneumatic, V= solid, SE = Pneumatic Shape Solid Tyres size, front					10.00.0	- 0 20PR			
3-2	Tyres size, rear						0 20PR			
3-5	Wheels, number front / rear (x = driven wheels)					4X				
3-2 3-3 3-5 3-6	Track width, front	b10	mm			1,8				
≥ 3-7	Track width, rear		mm			2,0				
4-1	Mast tilt : forward / backwards		(°)			15°,				
4-2	Height of mast lowered (unloaded)		mm			4,1				
4-3	Free lift	h2	mm							
4-4	Lift height (bottom of forks)	h3	mm			49	10			
4-5	Height of mast extended (unloaded)	h4	mm			6,6	648			
4-7	Height of overhead guard (closed cab)	h6	mm			3,1	10			
4-7-	Height of overhead guard (closed cab w/ airco)	h6	mm			3,1	10			
4-7-:	2 Height of overhead guard (closed cab w/ strobe light)		mm			3,2				
4-7-3	Height of overhead guard (closed cab w/ work lights)		mm			3,2				
4-7-	4 Height of overhead guard (closed cab w/ airco & strobe light)		mm			3,2	35			
4-8	Seat height (Seat Index Point, ISO 5353)		mm			1,9	103			
4-12			mm			7				
4,17			mm			80				
4-19			mm	6,8	28	7,4		6,8	28	
4-20	5		mm			4,9				
4-21 4-22 4-22 4-23			mm			2,5				
4-22		s/e/l	mm	90 / 200	/ 1,830			0 / 2,440		
4-23						85mm sto				
4-24			mm			2,4				
4-25			mm			470 /				
4-30 4-31			mm							
4-31			mm			24 34				
4-32			mm mm	1,200 ×	2420	2,400 x		1,200 x	1 200	
4-33			mm	7,3		8,6	•	7,3		
	-2 Aisle width (a=0)		mm	6,6		7,8		6,6		
4-33			mm	6,8		8,0		6,873		
4-34			mm	1,200		1,930		1,200 x 800		
4-34			mm	6,9		8,0		6,9		
	-2 Aisle width (a=0)		mm	6,2		7,3		6,2		
4-34			mm	6,4			603	6,4		
4-35			mm				i84			
4-36			mm				890			
5-1	Travel speed laden/unladen (2)		km/h				/ 24.8			
5.2	Lifting speed laden/unladen		m/s			0.41	/ 0.46			
PERFORMANCE 2-2 2-3 2-2 2-2 2-2 2-2 2-2 2-2 2-2 2-2	Lowering speed laden/unladen		m/s			0.50	/ 0.48			
5-5	Drawbar pull laden/unladen (1)		kN	30 /	33	31,		30 /	32	
P-6	Max. Drawbar pull laden/unladen (2)		kN	62 /	65	63,	/ 65	62 /	65	
5-7	Gradeability laden/unladen (1)		%	9/	17	10,	/ 17	8/	16	
5-8	Max. Gradeability laden/unladen (2)		%	19/	27	22,	/ 25	17 /	29	
6-1	Drive motor rating Peak/Continuous		kW			108	/ 46			
8010W 6-2 6-3	Lift motor rating Peak/Continuous		kW				/ 74			
§ 6-3	Battery according to DIN 43531/35/36 A, B, C						0			
6-4	Battery voltage/nominal capacity	1	V / Ah	358 I 192	/ 384 / 576		92 / 384	358 192/3	84 / 576 / 768	
8-1 8-3 8-4 8-5	Type of drive unit						ectric			
8-3	Drive axle Manufacturer / Type						er D81			
8-4	Service brake						rsed disc			
	Parking brake						n drive axle			
10-1			MPa				2.5			
10-2			l/min				00			
/ 10-3			I			14				
210-5 10-6							wer steering			
	-		ID (C)				.5			
10-7			dB (A)				3D			
10-7			dB (A)				3D / Pin			
10-8	Towing coupling, model / type									

J16XD9, J16XD12, J18XD7.5, J18XD9 SPECIFICATIONS <



Name Name </th <th></th>																	
Image Image <t< td=""><td></td><td>1-1</td><td>Manufacturer (abbreviation)</td><td></td><td></td><td></td><td></td><td></td><td>HYS</td><td>TER</td><td></td><td></td><td></td></t<>		1-1	Manufacturer (abbreviation)						HYS	TER							
Image Part <	s	1-2	Manufacturer's type designation			J16X	D9	J16X	D12	J18X	D7.5	J18	XD9				
Image Part <	STIC	1-3	Powertrain / Voltage			Electric / 350v Electric			Elec	tric	Elec	tric					
Image Part <	ERIS	1-4	Operator type: hand, pedestrian, standing, seated, orderpicker			seat seat				sea	at	se	at				
Image Part <	ACT	1-5	Rated capacity / rated load	۵	kg	16,0	00	16,0	00	18,0	00	18,	000				
Image Part <	HAR	1-6	Load centre distance	с	mm							00					
Biol Biol <th< td=""><td>Ö</td><td>1-8</td><td>Load distance</td><td>х</td><td>mm</td><td>973</td><td></td><td>97</td><td>3</td><td>97</td><td>3</td><td>97</td><td>13</td></th<>	Ö	1-8	Load distance	х	mm	973		97	3	97	3	97	13				
Image: Second second matrix framework for the second sec		1-9	Wheelbase	у	mm	3,75	0	3,7	i0	3,7	50	3,7	50				
Part of the control of the section of the sectin of the section of the section of the section of the se	ΠS	2-1	Service weight (1)		kg	22,9	18	24,4	48	22,9	48	24,	448				
Part of the control of the section of the sectin of the section of the section of the section of the se	E	2-2	Axle loading, laden front / rear		kg	36,054	2,894	37,274	3,174	37,165	2,983	37,793	3,855				
Per Part No	Ň	2-3	Axle loading, unladen front / rear		kg	12,063	10,886	12,002	12,446	12,063	10,886	12,002	12,446				
Image: Provide and the set of the set	s	3-1	Tyres: L=pneumatic, V=solid, SE=Pneumatic Shape Solid						l	-							
Image: Provide and the set of the set	K	3-2	Tyres size, front						12.00	R 20							
Image: Provide and the set of the set	& Т	3-3	Tyres size, rear						12.00	R 20							
Image: Provide and the set of the set	ELS	3-5	Wheels, number front / rear (x = driven wheels)						4X	/ 2							
Image: Provide and the set of the set	Ŧ		Track width, front	b10	mm				2,2	18							
Note Note State		3-7	Track width, rear		mm				1,9	194							
Image: Province of the section of the sectin of the section of the section of th		4-1	Mast tilt : forward / backwards	α/β	(°)				6°/	10°							
Normal Control Control <thcontrol< th=""> <thcontrol< th=""> <thc< td=""><td></td><td>4-2</td><td>Height of mast lowered (unloaded)</td><td>h1</td><td>mm</td><td></td><td></td><td></td><td>3,9</td><td>185</td><td></td><td></td><td></td></thc<></thcontrol<></thcontrol<>		4-2	Height of mast lowered (unloaded)	h1	mm				3,9	185							
Vertical sector Image of man and matched pair decine allow of the sector Image of man and matched pair decine allow of the sector Image of man and matched pair decine allow of the sector Image of man and matched pair decine allow of the sector Image of matched pair decine allow of the sector Image of matched pair decine allow of the sector Image of matched pair decine allow of the sector Image of matched pair decine allow of the sector Image of the sector		4-3	Free lift	h2	mm												
Perform 100 10		4-4	Lift height (bottom of forks)	h3	mm				44	94							
Part operate o		4-5	Height of mast extended (unloaded)	h4	mm				6,2	32							
Part open the spin open spin ope		4-7	Height of overhead guard (closed cab)	h6	mm				3,1	10							
Province 1900Province 1900Province 1900Province 1900Province 1900Province 1900Province 1900Province 1900 </td <td></td> <td>4-7-1</td> <td>Height of overhead guard (closed cab w/ airco)</td> <td>h6</td> <td>mm</td> <td></td> <td></td> <td></td> <td>3,1</td> <td>10</td> <td></td> <td></td> <td></td>		4-7-1	Height of overhead guard (closed cab w/ airco)	h6	mm				3,1	10							
Part of anomena game (rises at our is a store lag) Init mm 333 64 Seek inplication (rises (rises 35%) N mm		4-7-2	Height of overhead guard (closed cab w/ strobe light)	h6	mm				3,2	105							
No No No No No No No 1-2 Contrainy Bingin Min B mn No No <td></td> <td>4-7-3</td> <td>Height of overhead guard (closed cab w/ work lights)</td> <td>h6</td> <td>mm</td> <td></td> <td></td> <td></td> <td>3,3</td> <td>10</td> <td></td> <td></td> <td></td>		4-7-3	Height of overhead guard (closed cab w/ work lights)	h6	mm				3,3	10							
No. NO. NO. NO. NO. NO. NO. 420 Owerlongian II. em<		4-7-4	Height of overhead guard (closed cab w/ airco & strobe light)	h6	mm				3,2	59							
Vertical section IB mm PP 4:30 Description IC mm 7554 4:20 Description IC mm 7557 4:20 Description IC mm 7557 4:20 Secription IC mm 7557 7456 4:20 Secription IC mm 7557 7456 745 4:30 Secription IC IC 7476 7457 745 4:30 Secription IC IC 7476 7457 7456 4:30 Secription IC IC Mm IC 7476 7476 4:30 Secription IC IC IC IC <td></td> <td>4-8</td> <td>Seat height (Seat Index Point, ISO 5353)</td> <td>h7</td> <td>mm</td> <td></td> <td></td> <td></td> <td>1,9</td> <td>103</td> <td></td> <td></td> <td></td>		4-8	Seat height (Seat Index Point, ISO 5353)	h7	mm				1,9	103							
Perform In mm Image: Second Secon		4-12	Coupling height	h10	mm				71	13							
94 20 long to "pice ordersis" 504 mm 2.504 420 long to the fact ordersis sold mm Datafunction-Sold (Pack Pack Sold (Pack Sold (P		4,17	Overhang	15	mm				79	91							
Formation Size mm Total Total Total 220 Gringe type 0 mm Total		4-19	Overall length	11	mm				7,9	154							
Property Field Control (Control (Init) (Control (Ini		4-20	Length to face of forks	12	mm				5,5	i14							
Network Note: Data mm Data functionSaleshit /For Realizoning 427 Carringe viden 10		4-21	Overall width truck	b2	mm				2,5	i42							
4.3 Width our firsk (min / mad cylinder store protion 0.5 mm		4-22	Fork dimensions	s/e/l	mm				100 / 20	0 / 2,440							
4.3 Width our firsk (min / mad cylinder store protion 0.5 mm	SNO	4-23	Carriage type					Dual Fur	iction – Sides	hift / Fork Posi	tioning						
4.3 Width our firsk (min / mad cylinder store protion 0.5 mm	NSI	4-24		b3	mm												
4.3 Width our firsk (min / mad cylinder store protion 0.5 mm	M		-	-													
Processor Side mathematical set many and point out out position Side mathematical set many and point out out position Side mathematical set mathematimatematical set mathematimatematical set mathematical		4-25		b5	mm				555 /	1,045							
Nome 4/98 223 4/98 1/98 3/98 <		4-25															
4.30 Sideshift @vidth over forks quinders auter paction 18/15 mm +430 / 1745 0 Sideshift @vidth over forks quinders auter paction 18/15 mm +430 / 175 0 Sideshift @vidth over forks quinders auter paction 18/15 mm +430 / 175 4 Width over forks quinders auter paction 18/15 mm +481 / 1510 5 Sideshift @vidth over forks 18/15 mm +448 / 1510 5 Sideshift @vidth over forks 18/15 mm +488 / 250 6 Sideshift @vidth over forks 18/15 mm +488 / 150 6 Grand clearance, laden, balow mast m1 mm -2400 × 240 6 Sideshift @vidth over forks 18/15 mm -2400 × 240 6 Grand clearance, eatree of wheebase m2 mm -2400 × 240 6 Sideshift @vidth over forks width mm -240 / 240 6 Sideshift @vidth over forks width mm -240 / 240 6 Sideshift @vidth over forks width																	
4-30 Sideabif: @ with over forks out opaition № / bs mm ++30 / 1175 0755FP carring 460 mm sideabit: 0755FP carring 460 mm sideabit: mm 575/2450 4-30 Work or forks (m) ma/ № / bs mm +4/80 / 1100 4-30 Work or forks (m) ma/ № / bs mm +4/80 / 1200 4-31 Ground clearance, inden, below mast ml mm -4/30 / 4/48 / 1500 4-31 Ground clearance, inden, below mast ml mm -2/200 × 4/00 4-33 Adde with (ve0) Ast mm -2/200 × 4/00 4-33 Adde with (ve0) Ast mm -2/200 × 4/00 4-35 Adde with (ve0) Ast mm -2/200 × 4/00 4-35 Adde with (ve0) Ast mm -2/200 × 4/00 4-35 Adde with (ve0) Ast mm -2/200 × 4/00 4-35 Toring radius (outer) Na mm -2/200 × 4/00 4-35 Toring radius (outer) Na mm -2/200 × 4/00 4-35 Toring radius (outer) Na mm -2/200 × 4/00																	
PSSPP carrings 488 mm sideshift im STS/245.0 4-26 Width over forks (min / max) b6 mm -//38 //38 -//38 //38 -//38 //38 -//38 //38 -//38 //38 -//38 //38 -//38 //38 -//38 //38 -//38 //38 -//38 //38 -//38 //38 -//38 //38 -//38 //38 -//38 //38 -//38 //38 -//38 //38 -//38 //38 -//38 -//38 //38 -//38		4-30															
4.35 With over forks fmin / maxi b5 mm																	
Vertex Sideshift volth over forks b8 / b5 mm -++468 / 1510		4-25		b5	mm				575/2	2445.0							
4.31 Ground clearance, laden, below mast m1 m2 mm 341 4.32 Ground clearance, centre of wheebase m2 mm 341 4.32 Ground clearance, centre of wheebase m2 mm 341 4.33 Lade size with (=01%) Ast mm 9,330 4.332 Asle with (=01%) Ast mm 9,373 343 4.333 Asle with (=00) Ast mm 9,373 343 4.333 Asle with (=00) Ast mm 9,373 343 4.333 Asle with (=00) Ast mm -2,028 343 4.333 Asle with (=00) Ast mm -2,028 343 4.334 Mais (souter) Wa mm -2,028 343 4.335 Itimeral truing radius (souter) Wa mm -2,028 343 5.3 Towel speed lade/unladen (12) KN 62/64 61/64 57 5.4 Max. Gradeability laden/unladen (1) KN 62/64 61/64 57 6.4 Battery so			Sideshift @ width over forks	b8/b5	mm				+/-98	/ 2250							
4.31 Ground clearance, lader, below mast n1 nm 187 4.32 Ground clearance, centre of wheeblase m2 mm 311 311 4.32 Ground clearance, centre of wheeblase w2 mm 341 341 4.33 Asle width (a=10%) Ast mm 9,330 331 4.33 Asle width (a=0) Ast mm 9,733 3 4.33 Asle width (a=0) Ast mm 9,73 3 4.33 Asle width (a=0) Ast mm 9,73 3 4.33 Asle width (a=0) Ast mm 9,73 3 4.33 Intring radius fouter) We mm -2,026 3 5.3 Lowering speed fade/unladen (2) Kn Nh -2,226 3 5.4 Drawbar pull dade/unladen (1) KN 62/64 61/64 5 5.4 Drawbar pull dade/unladen (2) KN 62/64 16/28 16/28 5.4 Batery accordin			Sideshift @ width over forks	b8/b5	mm				+/-468	/ 1510							
432 Ground clearance, centre of wheelbase m2 mm -34 433 Lake width (=n0%) Att mm -2,400×2,40×2,4		4-31	Ground clearance, laden, below mast	m1	mm												
4.331 Aisle width (==10%) Ast mm				m2					34	11							
4.33 Aisle width (==0) Ast mm		4-33	Load size	wxl	mm				2,400 >	< 2,400							
4.332 Aisle width (a=0) Ast mm		4-33-1	Aisle width (a=10%)	Ast	mm				9,4	30							
4.35 Turning radius (outer) Wa mm 520 4.36 Internal turning radius b13 mm 2.026 4.36 Internal turning radius b13 mm 2.026 5-1 Travel speed laden/unladen (2) m/s 0.38/0.44 0.37/0.44 5-2 Utfing speed laden/unladen (1) KN 62/64 61/64 5-3 Drawbar pull laden/unladen (1) KN 62/64 61/64 5-5 Orawbar pull laden/unladen (1) KN 62/64 61/64 5-6 Max. Drawbar pull laden/unladen (1) KN 62/64 61/64 5-6 Max. Drawbar pull laden/unladen (1) KN 62/64 61/64 5-7 Gradeability laden/unladen (1) KN 62/64 16/30 15/28 5-8 Max. Gradeability laden/unladen (2) KN KV 108/45 108/46 6-2 Lift motor rating Peak/Continuous KW 108/45 108/45 108/45 6-3 Battery voltage/nominal capacity V / Ah SSE 192/S4/57/788 108/45 108/45 6-4 Battery voltage/no		4-33-2	Aisle width (a=0)	Ast	mm				8,5	73							
4.35 Turning radius (outer) Wa mm 520 4.36 Internal turning radius b13 mm 2.026 4.36 Internal turning radius b13 mm 2.026 5-1 Travel speed laden/unladen (2) m/s 0.38/0.44 0.37/0.44 5-2 Utfing speed laden/unladen (1) KN 62/64 61/64 5-3 Drawbar pull laden/unladen (1) KN 62/64 61/64 5-5 Orawbar pull laden/unladen (1) KN 62/64 61/64 5-6 Max. Drawbar pull laden/unladen (1) KN 62/64 61/64 5-6 Max. Drawbar pull laden/unladen (1) KN 62/64 61/64 5-7 Gradeability laden/unladen (1) KN 62/64 16/30 15/28 5-8 Max. Gradeability laden/unladen (2) KN KV 108/45 108/46 6-2 Lift motor rating Peak/Continuous KW 108/45 108/45 108/45 6-3 Battery voltage/nominal capacity V / Ah SSE 192/S4/57/788 108/45 108/45 6-4 Battery voltage/no																	
4.36 Internal turning radius b13 mm																	
5-1 Travel speed laden/unladen (2) km/h 24.8 / 24.8 5-2 Lifting speed laden/unladen nr/s 0.37 / 0.44 0.37 / 0.44 5-3 Lowering speed laden/unladen nr/s 0.37 / 0.44 0.37 / 0.44 5-5 Drawbar pull laden/unladen (1) KN 29/32 61/64 5-7 Gradeability laden/unladen (2) KN 62/64 61/64 5-7 Gradeability laden/unladen (2) % 8 / 15 7 / 14 7 / 15 7 / 14 5-8 Max. Gradeability laden/unladen (2) % 8 / 15 7 / 14 7 / 15 7 / 14 5-8 Max. Gradeability laden/unladen (2) % 8 / 15 7 / 14 7 / 15 7 / 14 5-8 Max. Gradeability laden/unladen (2) % 17 / 30 16 / 28 16 / 30 15 / 28 5-9 Effective intravel speed laden/unladen (2) KW 108 / 46 108 / 74 108 / 46 16 / 30 15 / 28 15 / 28 16 / 30 15 / 28 16 / 30 15 / 28 16 / 30 15 / 28 16 / 30 </td <td></td>																	
B Lifting speed laden/unladen m/s 0.33 / 0.44 0.37 / 0.44 5-3 Lowering speed laden/unladen nn/s 0.33 / 0.44 0.37 / 0.44 5-3 Lowering speed laden/unladen (1) kN 29 / 32 16 / 64 5-5 Drawbar pull laden/unladen (2) KN 62 / 64 61 / 64 5-7 Gradeability laden/unladen (2) % 8 / 15 7 / 14 7 / 15 7 / 14 5-6 Max. Cravbar pull laden/unladen (2) % 8 / 17 / 30 16 / 28 16 / 30 15 / 28 5-6 Max. Cravbar pull laden/unladen (2) % 17 / 30 16 / 28 16 / 30 15 / 28 5-6 Lift motor rating Peak/Continuous KW 108 / 46 16 / 74 16 / 74 5-3 Battery according to DIN 4353 / 35 / 36 A, B, C KW No Accelectric 18 / 706 5-4 Battery voltage/nominal capacity V / Ah Service brake Drive and manufacturer / Type Kessler / D81 Service brake 192 / 28 / 756 / 768 Service brake 192 / 28 / 756 / 768 Service brake <td></td> <td>5-1</td> <td>-</td> <td></td>		5-1	-														
5-3 Lowering speed laden/unladen n/s 0.54/0.54 5-5 Drawbar pull laden/unladen (1) KN 62/04 29/32 5-6 Max. Drawbar pull laden/unladen (2) KN 62/64 61/64 5-7 Gradeability laden/unladen (1) % 8/15 7/14 7/15 7/14 5-6 Max. Gradeability laden/unladen (1) % 8/15 7/14 7/15 7/14 5-6 Max. Gradeability laden/unladen (2) % 17/30 16/28 16/30 15/28 6-1 Drive motor rating Peak/Continuous KW			Traver speed laden/dilladen (Z)														
54 Of doubling lade fully	щ	5-2			m/s		0.39	/ 0.44									
5-9 Original of a constraint of a cons	ANCE		Lifting speed laden/unladen				0.39	/ 0.44	0.54	0.54	0.37						
5-9 Original of a constraint of a cons	RMANCE	5-3	Lifting speed laden/unladen Lowering speed laden/unladen		m/s		0.39,	/ 0.44			0.37						
5-8 Max. Gradeability laden/unladen (2) % 17/30 16/28 16/30 15/28 06-1 Drive motor rating Peak/Continuous kW 108/46 108/46 6-2 Lift motor rating Peak/Continuous kW 166/74 166/74 6-3 Battery according to DIN 43531/35/6 A, B, C V/Ah 358 l 192/384/576/768 V/Ah 6-4 Battery voltage/nominal capacity V/Ah 358 l 192/384/576/768 V/Ah 8-4 Service brake V/Ah CElectric V/Ah 8-3 Drive axle Manufacturer /Type C CElectric 8-4 Service brake MP COli-immersed / wet disc 8-5 Parking brake V/Ah Oli-immersed / wet disc 8-5 Parking brake MPa 19.5 10-1 Operating pressure for attachments MPa 19.5 10-2 Oil volume for attachements V/min 100 10-3 Hydraulic tank capacity I 140 10-4 Number of steering rotation I 140 10-7 Sound pressure level at the driver's seat dB (A) TBD 10-71 Sound prover level during the working cycle dB (A) TBD 10-7 Sound pressure leve	RFORMANCE	5-3 5-5	Lifting speed laden/unladen Lowering speed laden/unladen Drawbar pull laden/unladen (1)		m/s kN	62/		/ 0.44		32							
6-1 Drive motor rating Peak/Continuous kW 108 / 46 6-2 Lift motor rating Peak/Continuous kW 166 / 74 6-3 Battery according to DIN 43531/35/36 A, B, C No 6-4 Battery voltage/nominal capacity V / Ah 358 l 192 / 384 / 576 / 768 8-1 Type of drive unit V / Ah 358 l 192 / 384 / 576 / 768 8-3 Drive axle Manufacturer / Type V AC Electric 8-3 Drive axle Manufacturer / Type V AC Electric 8-4 Service brake V AC Electric 8-5 Parking brake Vertice on drive axle Dry disc on drive axle 10-1 Operating pressure for attachments MPa 19.5 10-2 Oil volume for attachments Vmin 100 10-3 Hydraulic tank capacity I Hydraulic power steering 10-5 Steering design Me FBD 10-7 Sound pressure level at the driver's seat dB (A) TBD 10-7-1 Sound power level during the working cycle dB (A) TBD 10-7-1 Towing coupling, model / type Wes / Pin	PERFORMANCE	5-3 5-5 5-6	Lifting speed laden/unladen Lowering speed laden/unladen Drawbar pull laden/unladen (1) Max. Drawbar pull laden/unladen (2)		m/s kN kN		64		29 /	/ 32 61 /	64		14				
OP G-2 Lift motor rating Peak/Continuous kW 166 / 74 6-3 Battery according to DIN 43531/35/36 A, B, C No No 6-4 Battery voltage/nominal capacity V / Ah 358 1 192/384/576 / 768 8-1 Type of drive unit V / Ah 358 1 192/384/576 / 768 8-3 Drive axle Manufacturer / Type V Ah 8-4 Service brake V Ah 8-4 Service brake V Ah 8-5 Parking brake V Ah 10-2 Oli volume for attachments MPa Dry disc on drive axle 10-2 Oli volume for attachments V/min 100 10-3 Hydraulic tank capacity I I 10-4 Number of steering rotation MPa 5.4 10-7 Sound pressure level at the driver's seat dB (A) TBD 10-7 Sound power level during the working cycle dB (A) TBD 10-74 Towing coupling, model / type Ver Ver / Pin	PERFORMANCE	5-3 5-5 5-6 5-7	Lifting speed laden/unladen Lowering speed laden/unladen Drawbar pull laden/unladen (1) Max. Drawbar pull laden/unladen (2) Gradeability laden/unladen (1)		m/s kN <mark>kN</mark> %	8/1	54 5	7/	29 /	/ 32 61 / 7 / ⁻	<mark>64</mark> 15	7/					
6-4 Battery voltage/nominal capacity V / An 388 1 192/384 / 576 / 768 8-1 Type of drive unit AC Electric 8-3 Drive axle Manufacturer / Type Kessler / D81 8-3 Service brake Oli-immersed / wet disc 8-5 Parking brake Dry disc on drive axle 10-1 Operating pressure for attachments MPa 10-2 Oil volume for attachments V/min 10-3 Hydraulic tank capacity I 10-5 Steering design I 10-6 Number of steering rotation S4 10-7 Sound pressure level at the driver's seat dB (A) 10-7 Sound power level during the working cycle dB (A) 10-8 Towing coupling, model / type Yes / Pin		5-3 5-5 5-6 5-7 5-8	Lifting speed laden/unladen Lowering speed laden/unladen Drawbar pull laden/unladen (1) Max. Drawbar pull laden/unladen (2) Gradeability laden/unladen (1) Max. Gradeability laden/unladen (2)		m/s kN kN % %	8/1	54 5	7/	29 / 4 28	/ 32 61 / 7 / ⁻ 16 /	<mark>64</mark> 15	7/					
6-4 Battery voltage/nominal capacity V / An 388 1 192/384 / 576 / 768 8-1 Type of drive unit AC Electric 8-3 Drive axle Manufacturer / Type Kessler / D81 8-3 Service brake Oli-immersed / wet disc 8-5 Parking brake Dry disc on drive axle 10-1 Operating pressure for attachments MPa 10-2 Oil volume for attachments V/min 10-3 Hydraulic tank capacity I 10-5 Steering design I 10-6 Number of steering rotation S4 10-7 Sound pressure level at the driver's seat dB (A) 10-7 Sound power level during the working cycle dB (A) 10-8 Towing coupling, model / type Yes / Pin		5-3 5-5 5-6 5-7 5-8 6-1	Lifting speed laden/unladen Lowering speed laden/unladen Drawbar pull laden/unladen (1) Max. Drawbar pull laden/unladen (2) Gradeability laden/unladen (1) Max. Gradeability laden/unladen (2) Drive motor rating Peak/Continuous		m/s kN kN % % kW	8/1	54 5	7/	29 / 4 28 108	/ 32 61 / 7 / ⁻ 16 / / 46	<mark>64</mark> 15	7/					
B-1 Type of drive unit AC Electric B-3 Drive axle Manufacturer / Type Image: Constraint of the second seco		5-3 5-5 5-6 5-7 5-8 6-1 6-2	Lifting speed laden/unladen Lowering speed laden/unladen Drawbar pull laden/unladen (1) Max. Drawbar pull laden/unladen (2) Gradeability laden/unladen (1) Max. Gradeability laden/unladen (2) Drive motor rating Peak/Continuous Lift motor rating Peak/Continuous		m/s kN kN % % kW	8/1	54 5	7/	29 / 4 28 108 166	/ 32 61 / 7 / ⁻ 16 / / 46 / 74	<mark>64</mark> 15	7/					
B-3 Drive axle Manufacturer / Type Image: Manufacture		5-3 5-5 5-6 5-7 5-8 6-1 6-2 6-3	Lifting speed laden/unladen Lowering speed laden/unladen Drawbar pull laden/unladen (1) Max. Drawbar pull laden/unladen (2) Gradeability laden/unladen (1) Max. Gradeability laden/unladen (2) Drive motor rating Peak/Continuous Lift motor rating Peak/Continuous Battery according to DIN 43531/35/36 A, B, C		m/s kN kN % % kW kW	8/1	54 5	7/ 16/	29 / 4 28 108 166 N	/ 32 61 / 7 / ⁻ 16 / / 46 / 74	<mark>64</mark> 15	7/					
Org Org Org Org 10-1 Operating pressure for attachments MPa 10-2 Oil volume for attachments Vmin 10-3 Hydraulic tank capacity I 10-5 Steering design I 10-6 Number of steering rotation I 10-7 Sound pressure level at the driver's seat dB (A) 10-7 Sound pressure level during the working cycle dB (A) 10-8 Towing coupling, model / type	ELECTRIC MOTOR	5-3 5-5 5-6 5-7 5-8 6-1 6-2 6-3 6-4	Lifting speed laden/unladen Lowering speed laden/unladen Drawbar pull laden/unladen (1) Max. Drawbar pull laden/unladen (2) Gradeability laden/unladen (1) Max. Gradeability laden/unladen (2) Drive motor rating Peak/Continuous Lift motor rating Peak/Continuous Battery according to DIN 43531/35/36 A, B, C Battery voltage/nominal capacity		m/s kN kN % % kW kW	8/1	54 5	7/ 16/	29 , 4	/ 32 61 / 7 / ` 16 / / 46 / 74 o 884 / 576 / 768	<mark>64</mark> 15	7/					
Org Org Org Org 10-1 Operating pressure for attachments MPa 10-2 Oil volume for attachments Vmin 10-3 Hydraulic tank capacity I 10-5 Steering design I 10-6 Number of steering rotation I 10-7 Sound pressure level at the driver's seat dB (A) 10-7 Sound pressure level during the working cycle dB (A) 10-8 Towing coupling, model / type	ELECTRIC MOTOR	5-3 5-5 5-6 5-7 5-8 6-1 6-2 6-3 6-4 8-1	Lifting speed laden/unladen Lowering speed laden/unladen Drawbar pull laden/unladen (1) Max. Drawbar pull laden/unladen (2) Gradeability laden/unladen (1) Max. Gradeability laden/unladen (2) Drive motor rating Peak/Continuous Lift motor rating Peak/Continuous Battery according to DIN 43531/35/36 A, B, C Battery voltage/nominal capacity Type of drive unit		m/s kN kN % % kW kW	8/1	54 5	7/ 16/	29 , 4 28 108 166 N 358 I 192 / 3 AC EI	32 61/ 7/ 16/ /46 /74 0 884/576/768 ectric	<mark>64</mark> 15	7/					
Io-1 Operating pressure for attachments MPa 19.5 Io-2 Oil volume for attachments V/min 100 Io-3 Hydraulic tank capacity I 10 Io-5 Steering design I Hydraulic power steering Io-6 Number of steering rotation Image: Steering rotation Steering tester level at the driver's seat Io-7 Sound pressure level at the driver's seat dB (A) TBD Io-8 Towing coupling, model / type Yes / Pin	ELECTRIC MOTOR	5-3 5-5 5-6 5-7 5-8 6-1 6-2 6-3 6-4 8-1 8-3	Lifting speed laden/unladen Lowering speed laden/unladen Drawbar pull laden/unladen (1) Max. Drawbar pull laden/unladen (2) Gradeability laden/unladen (2) Max. Gradeability laden/unladen (2) Drive motor rating Peak/Continuous Lift motor rating Peak/Continuous Battery according to DIN 43531/35/36 A, B, C Battery voltage/nominal capacity Type of drive unit Drive axle Manufacturer / Type		m/s kN kN % % kW kW	8/1	54 5	7/ 16/	29 / 4 . 28 . 108 . 166 . N 358 I 192 / 3 AC EI Kessle	/ 32 61 / 7 / ' 16 / / 46 / 74 0 884 / 576 / 768 ectric r / D81	<mark>64</mark> 15	7/					
10-2 Oil volume for attachements Vmin 100 10-3 Hydraulic tank capacity I 140 10-5 Steering design I Hydraulic power steering 10-6 Number of steering rotation I Hydraulic power steering 10-7 Sound pressure level at the driver's seat dB (A) TBD 10-7.1 Sound power level during the working cycle dB (A) TBD 10-8 Towing coupling, model / type Yes / Pin	ELECTRIC MOTOR	5-3 5-5 5-6 5-7 5-8 6-1 6-2 6-3 6-4 8-1 8-3 8-4	Lifting speed laden/unladen Lowering speed laden/unladen Drawbar pull laden/unladen (1) Max. Drawbar pull laden/unladen (2) Gradeability laden/unladen (1) Max. Gradeability laden/unladen (2) Drive motor rating Peak/Continuous Lift motor rating Peak/Continuous Battery according to DIN 43531/35/36 A, B, C Battery voltage/nominal capacity Type of drive unit Drive axle Manufacturer / Type Service brake		m/s kN kN % % kW kW	8/1	54 5	7/ 16/	29 / 4 28 108 166 N 358 I 192 / 3 AC El Kessle Oil-immerse	/ 32 61 / 7 / ' 16 / / 46 / 74 0 884 / 576 / 768 ectric r / D81 rd / wet disc	<mark>64</mark> 15	7/					
10-3 Hydraulic tank capacity I 140 10-5 Steering design I Hydraulic power steering 10-6 Number of steering rotation I Hydraulic power steering 10-7 Sound pressure level at the driver's seat I I 10-71 Sound power level during the working cycle I I 10-8 Towing coupling, model / type I I	ELECTRIC MOTOR	5-3 5-5 5-6 5-7 5-8 6-1 6-2 6-3 6-3 6-4 8-1 8-3 8-4 8-5	Lifting speed laden/unladen Lowering speed laden/unladen Drawbar pull laden/unladen (1) Max. Drawbar pull laden/unladen (2) Gradeability laden/unladen (2) Drive motor rating Peak/Continuous Lift motor rating Peak/Continuous Battery according to DIN 43531/35/36 A, B, C Battery voltage/nominal capacity Type of drive unit Drive axle Manufacturer / Type Service brake Parking brake		m/s kN kN % kW kW kV V/Ah	8/1	54 5	7/ 16/	29 / 4 28 108 166 N 358 I 192 / 3 AC El Kessle Oil-immerse Dry disc or	1 32 61 / 7 / 16 / 7 / 46 7 / 0 88 / 576 / 768 ectric r / D81 ed / wet disc n drive axle	<mark>64</mark> 15	7/					
Yeg 10-5 Steering design Hydraulic power steering 10-6 Number of steering rotation 5.4 10-7 Sound pressure level at the driver's seat dB (A) TBD 10-71 Sound power level during the working cycle dB (A) TBD 10-8 Towing coupling, model / type Yes / Pin	ELECTRIC MOTOR	5-3 5-5 5-6 5-7 5-8 6-1 6-2 6-3 6-4 8-1 8-3 8-4 8-4 8-5 10-1	Lifting speed laden/unladen Lowering speed laden/unladen Drawbar pull laden/unladen (1) Max. Drawbar pull laden/unladen (2) Gradeability laden/unladen (2) Drive motor rating Peak/Continuous Lift motor rating Peak/Continuous Battery according to DIN 43531/35/36 A, B, C Battery voltage/nominal capacity Type of drive unit Drive axle Manufacturer / Type Service brake Parking brake Operating pressure for attachments		m/s kN kN % kW kW kW kW kW kW	8/1	54 5	7/ 16/	29 , 4 28 108 166 N 358 I 192 / 3 AC El Kessle Oil-immerse Dry disc or 15	/ 32 61 / 7 / 16 / / 46 / 74 00 884 / 576 / 768 ectric r / D81 rd / wet disc n drive axle 1.5	<mark>64</mark> 15	7/					
10-7 Sound pressure level at the driver's seat dB (A) TBD 10-71 Sound power level during the working cycle dB (A) TBD 10-8 Towing coupling, model / type dB (A) Yes / Pin	ELECTRIC MOTOR	5-3 5-5 5-6 5-7 5-8 6-1 6-2 6-3 6-4 8-1 8-3 8-4 8-5 10-1 10-2	Lifting speed laden/unladen Lowering speed laden/unladen Drawbar pull laden/unladen (1) Max. Drawbar pull laden/unladen (2) Gradeability laden/unladen (2) Drive motor rating Peak/Continuous Lift motor rating Peak/Continuous Battery according to DIN 43531/35/36 A, B, C Battery voltage/nominal capacity Type of drive unit Drive axle Manufacturer / Type Service brake Parking brake Operating pressure for attachments Oil volume for attachements		m/s kN kN % kW kW kW kW kW kW	8/1	54 5	7/ 16/	29 / 4 28 28 108 166 N 358 192 / 3 AC El Kossie Oil-immerse Dry disc or 15	/ 32 61 / 7 / ' 16 / / 46 / 74 884 / 576 / 768 ectric er / D81 ed / wet disc n drive axle 1.5 00	<mark>64</mark> 15	7/					
10-7 Sound pressure level at the driver's seat dB (A) TBD 10-71 Sound power level during the working cycle dB (A) TBD 10-8 Towing coupling, model / type dB (A) Yes / Pin	DRIVETRAIN ELECTRIC MOTOR	5-3 5-5 5-6 5-7 5-8 6-1 6-2 6-3 6-4 8-1 8-3 8-4 8-3 8-4 8-5 10-1 10-2 10-3	Lifting speed laden/unladen Lowering speed laden/unladen Drawbar pull laden/unladen (1) Max. Drawbar pull laden/unladen (2) Gradeability laden/unladen (2) Drive motor rating Peak/Continuous Lift motor rating Peak/Continuous Battery according to DIN 43531/35/36 A, B, C Battery voltage/nominal capacity Type of drive unit Drive axle Manufacturer / Type Service brake Parking brake Operating pressure for attachments Oil volume for attachements Hydraulic tank capacity		m/s kN kN % kW kW kW kW kW kW	8/1	54 5	7/ 16/	29 / 4 28 108 166 N 358 192 / 3 AC El Kessle Oil-immerse Dry disc or 15 10	/ 32 61 / 7 / 16 / / 46 / 74 00 884 / 576 / 768 ectric r / D81 d / wet disc in drive axle 1.5 00 10 10 10 10 10 10 10 10 10	<mark>64</mark> 15	7/					
10-7-1 Sound power level during the working cycle dB (A) TBD 10-8 Towing coupling, model / type Yes / Pin	DRIVETRAIN ELECTRIC MOTOR	5-3 5-5 5-6 5-7 5-8 6-1 6-2 6-3 6-4 8-1 8-3 8-4 8-3 8-4 8-5 10-1 10-2 10-3 10-5	Lifting speed laden/unladen Lowering speed laden/unladen Drawbar pull laden/unladen (1) Max. Drawbar pull laden/unladen (2) Gradeability laden/unladen (2) Drive motor rating Peak/Continuous Lift motor rating Peak/Continuous Battery according to DIN 43531/35/36 A, B, C Battery voltage/nominal capacity Type of drive unit Drive axle Manufacturer / Type Service brake Parking brake Operating pressure for attachments Oil volume for attachements Hydraulic tank capacity Steering design		m/s kN kN % kW kW kW kW kW kW	8/1	54 5	7/ 16/	29 / 4 28 // 8 // 358 192 / 3 AC El 0il-immerse Dry disc or 15 10 14 Hydraulic po	/ 32 61 / 7 / 16 / 74 0 884 / 576 / 768 ectric r / D81 64 / 576 / 768 ectric tr / D81 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<mark>64</mark> 15	7/					
10-8 Towing coupling, model / type Yes / Pin	DRIVETRAIN ELECTRIC MOTOR	5-3 5-5 5-6 5-7 5-8 6-1 6-2 6-3 6-4 8-1 8-3 8-3 8-4 8-5 10-1 10-2 10-3 10-5 10-6	Lifting speed laden/unladen Lowering speed laden/unladen Drawbar pull laden/unladen (1) Max. Drawbar pull laden/unladen (2) Gradeability laden/unladen (2) Drive motor rating Peak/Continuous Lift motor rating Peak/Continuous Battery according to DIN 43531/35/36 A, B, C Battery voltage/nominal capacity Type of drive unit Drive axle Manufacturer / Type Service brake Parking brake Operating pressure for attachments Oil volume for attachements Hydraulic tank capacity Steering design		m/s kN kN % % kW kW kV kV kV kW i kW i k kV i k k k k k k k k k k k k k k k	8/1	54 5	7/ 16/	29 / 4 28 / 108 166 N 358 192 / 3 358 192 / 3 AC El Kessle Dry disc or 10 11 14 Hydraulic po 5	/ 32 61 / 7 / 16 / / 46 / 74 0 884 / 576 / 768 ectric r / D81 60 with disc 10 drive axle 5.5 00 00 wer steering 4	<mark>64</mark> 15	7/					
	DRIVETRAIN ELECTRIC MOTOR	5-3 5-5 5-6 5-7 5-8 6-1 6-2 6-3 6-4 8-1 8-3 8-4 8-3 8-4 8-5 10-1 10-2 10-3 10-5 10-6 10-7	Lifting speed laden/unladen Lowering speed laden/unladen Drawbar pull laden/unladen (1) Max. Drawbar pull laden/unladen (2) Gradeability laden/unladen (2) Drive motor rating Peak/Continuous Lift motor rating Peak/Continuous Battery according to DIN 43531/35/36 A, B, C Battery voltage/nominal capacity Type of drive unit Drive axle Manufacturer / Type Service brake Parking brake Operating pressure for attachments Oil volume for attachements Hydraulic tank capacity Steering design Number of steering rotation		m/s kN kN % % kW kW kV kV kW kW kW kW kW kW kW kW kW kW kW kW kW	8/1	54 5	7/ 16/	29 / 4 28 108 166 N 358 192 / 3 358 192 / 3 AC El Vil-immerse Dry disc or 15 11 Hydraulic po 5 5	7 32 61 / 7 / 16 / 7 / 46 7 / 88 / 576 / 768 ectric r / D81 wet disc o drive axle 5.5 100 wer steering 4 8D	<mark>64</mark> 15	7/					
	DRIVETRAIN ELECTRIC MOTOR	5-3 5-5 5-6 5-7 5-8 6-1 6-2 6-3 6-4 8-1 8-3 8-4 8-5 10-1 10-2 10-3 10-5 10-6 10-7 10-7-1	Lifting speed laden/unladen Lowering speed laden/unladen Drawbar pull laden/unladen (1) Max. Drawbar pull laden/unladen (2) Gradeability laden/unladen (2) Drive motor rating Peak/Continuous Lift motor rating Peak/Continuous Battery according to DIN 43531/35/36 A, B, C Battery voltage/nominal capacity Type of drive unit Drive axle Manufacturer / Type Service brake Parking brake Operating pressure for attachments Oil volume for attachements Hydraulic tank capacity Steering design Number of steering rotation Sound pressure level at the driver's seat Sound power level during the working cycle		m/s kN kN % % kW kW kV kV kW kW kW kW kW kW kW kW kW kW kW kW kW	8/1	54 5	7/ 16/	29 / 4 28 108 166 N 358 192 / 3 AC El Xessle Oil-immerse Dry disc or 15 11 Hydraulic po 5 TE	7 32 61 / 7 / 16 / 7 / 16 / 7 / 88 / 576 / 768 ectric 88 / 576 / 768 ectric 17 / D81 10 / Wet disc 10 drive axle 1.5 100 100 100 100 100 100 100 10	<mark>64</mark> 15	7/					

> FEATURES AND OPTIONS

PERFORMANCE	STD	OPT
Performance modes	х	
Kessler D81 drive axle with wet disc brakes	x	
DRIVE	STD	OPT
Speed limiter - unconditional and customer adjustable		Х
Travel speed limiter - loaded (adjustable)		Х
LIFT	STD	OPT
On-demand load sensing hydraulic system	Х	
2 Stage Non Free Lift mast	Х	
2 Stage Full Free Lift mast		Х
3 Stage Full Free Lift mast		Х
Mast tilt Indicator – mechanical		Х
Hydraulic accumulator		Х
Pressure compensated lowering	Х	
Hydraulic system temperature protection		Х
ERGONOMICS	STD	OPT
Open operator compartment (without doors and screens)		Х
Enclosed operator cabin	Х	
Powered tilt operator compartment for service		Х
Manual tilt operator compartment for service	Х	
Isolated cabin mounting for low noise and vibration	Х	
Operator presence system	Х	
Mechanical suspension seat	X	
Air suspension seat		Х
Deluxe air suspension seat		Х
Low backrest seat	Х	
High backrest seat		Х
Additional armrest on left side		Х
Cloth seat cover		Х
Vinyl seat cover	Х	
Seat heating		Х
Seat ventilation		Х
2-point high visibility seatbelt	Х	
Front, top and rear wipers	X	
"H"-pattern front wiper		Х
"I"-pattern front wiper	Х	
Laminated glass operator compartment front window		Х
Top window with armoured glass – FOPS certified (enclosed operator cabin)	х	
Steel bars under amoured glass top window (enclosed operator cabin)		х

ERGONOMICS (continued)	STD	OPT
Tinted operator compartment windows (all)		х
Tinted operator compartment top window		х
Lexan top window		х
PleXiglass shield in front of front window		х
Wire mesh installed on top of operator compartment		х
Vertical steel bar front window guard		х
Operator shield wire mesh		х
7" Integrated performance display	Х	
Touchpoint™ mini levers hydraulic control integrated in control arm	Х	
Joystick hydraulic control integrated in control arm		х
Steering wheel without spinner knob		х
Steering wheel with spinner knob	х	
Directional control lever	х	
Hyster Monotrol pedal directional control	1	х
Directional control on Mini-levers or Joystick	1	х
Park brake – automatic	1	х
Interior wide angle mirrors	Х	
Heater with adjustable speed fan	х	
Telescoping and tilting steering column	х	
DC/DC converter 24 volt/12 volt with socket	1	х
Automatic climate control	1	х
Reading light		х
Sun shades on top and rear		х
Sun visors front window	1	х
Trainer seat	1	х
Recirculation fan		х
Additional recirculation fan	1	х
Accessory mounting bar on cab front right pillar		х
Document holder on cab front right pillar		х
Heated top- and/or rear window		х
Radio preparation set-up (wiring, two speakers and antenna)		х
Bluetooth radio with 2 speakers and antenna		х





> FEATURES AND OPTIONS

VISIBILITY	STD	OPT
Exterior mirrors mounted to cab		х
Radar object detection system		х
High performance LED work lights		х
Two head lights mounted on front fenders		х
Four mast mounted work lights		х
Four cabin mounted work lights		х
Two rearward work lights mounted on the cabin		х
LED stop/tail/brake lights	x	
Turn signals, hazard and marker lights (LED)	x	
Rear view camera system **		х
OPERATION	STD	OPT
Air horn 112 dBA		х
Electric horn 105 dBA	x	
Visible alarm – Amber strobe light, key switch activated	x	
Visible alarm – Amber strobe light, switch and key switch activated		Х
Audible alarm – reverse direction activated 82–102 dB(A), self-adjusting	x	
Audible alarm – reverse direction white noise		х
Forward / reverse motion alarm		х
Blue LED spotlight – rear / front and rear		х
Tyre pressure monitoring system		х
Air-conditioning or automatic climate control off with open door		х
Automatic truck shutdown with timer		х
Lockable battery disconnect switch	X	
Battery jump start connector (NATO plug)		х
Truck start with key switch and start button	Х	
Operator password (display) for truck start		Х
Seatbelt Interlock for truck start		х
Power distribution group with fuses	Х	
Fuses partially replaced by electric circuit breakers		Х
Hyster Tracker wireless asset management system		Х
Hyster Tracker wireless asset management – Access / Verification		х
Hyster Tracker wireless asset management – Monitoring		х
Auto greasing system for basic truck and outer mast		х
Centralised greasing provision for upper chain sheaves	Х	
24 volt electrical system	x	
Steer wheel lug nut protection		х
Front mud flaps		х
Rear mud flaps		х
Lifting eyes – 2 front and 2 rear	1	х

APPEARANCE	STD	OPT
Hyster yellow paint base truck	Х	
Special paint base truck		Х
Operator compartment special paint (outside only)		Х
Hazard warning striping on counterweight		Х
SUPPLEMENTAL	STD	OPT
Literature package	Х	
Operator's manual	Х	
CE certification *	Х	
Warranty: 24 Months / 4,000 Hours extended warranty	Х	

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

** Rear view camera is standard equipment on H16XD9, H16XD12, H18XD7.5 and H18XM9. On all other models it is optional.





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