

J230-280XD SERIES

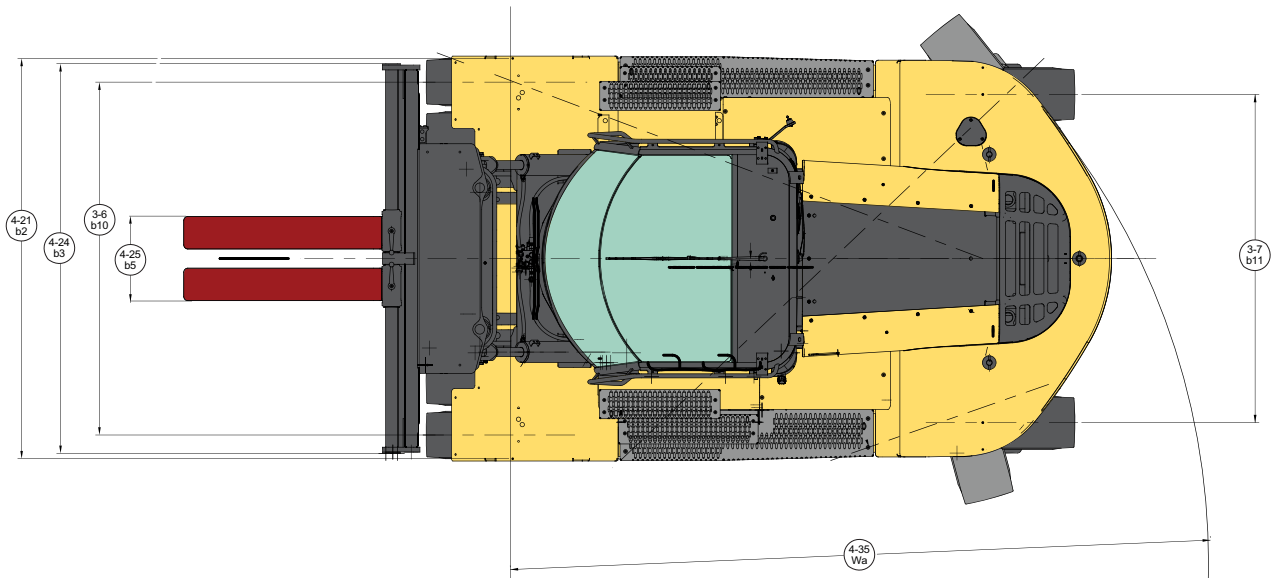
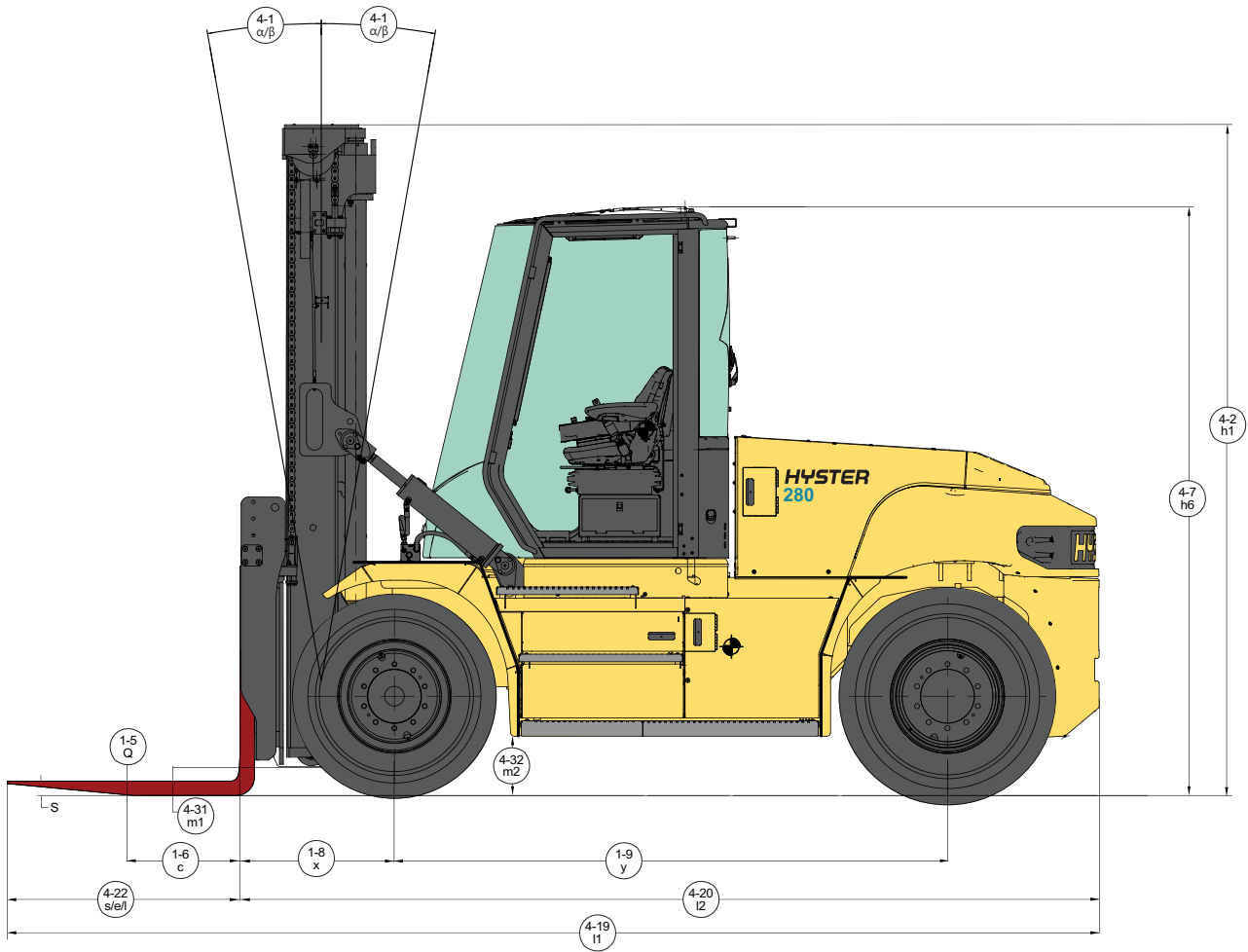


HIGH-CAPACITY ELECTRIC FORKLIFTS
PRODUCT TECHNICAL GUIDE



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DIMENSIONS



J230-250XD SPECIFICATIONS

GENERAL	1-1		HYSTER				HYSTER			
	Manufacturer		J230XD				J250XD			
GENERAL	1-2		Electric				Electric			
	Model designation		Seated				Seated			
GENERAL	1-3		23,000				25,000			
	Powertrain / drivetrain		10,433				11,340			
GENERAL	1-4		24				24			
	Operator type		610				610			
GENERAL	1-5		31.9				31.9			
	Rated load capacity		809				809			
GENERAL	1-6		114				114			
	Load center		2,900				2,900			
GENERAL	1-8		31,398				32,611			
	Load distance		14,242				14,792			
GENERAL	1-9		50,435				53,193			
	Wheelbase		3,964				3,964			
WEIGHTS	2-1		22,877				24,128			
	Total truck weight without load (1)		1,798				1,798			
WEIGHTS	2-2		16,184				15,214			
	Axle loading with load, front / rear		7,341				6,901			
WEIGHTS	2-3		15,214				15,964			
	Axle loading without load, front / rear		7,341				6,901			
WHEELS	3-1		Pneumatic				Pneumatic			
	Tire type		10.00-20 16PR				10.00-20 16PR			
WHEELS	3-2		10.00-20 16PR				10.00-20 16PR			
	Tire size, front		10.00-20 16PR				10.00-20 16PR			
WHEELS	3-3		x4/2				x4/2			
	Tire size, rear		x4/2				x4/2			
WHEELS	3-5		#				#			
	Number of tires, front / rear (X driven)		x4/2				x4/2			
WHEELS	3-6		72.5				72.5			
	Tread width, front		1,842				1,842			
WHEELS	3-7		79.5				79.5			
	Tread width, rear		2,020				2,020			
DIMENSIONS	4-1		15°F / 12°B				15°F / 12°B			
	Mast tilt, forward / back		15°F / 12°B				15°F / 12°B			
DIMENSIONS	4-2		138				138			
	Height of mast lowered		3,507				3,507			
DIMENSIONS	4-3		0				0			
	Freelift		0				0			
DIMENSIONS	4-4		147				147			
	Lift height (top of fork)		3,750				3,750			
DIMENSIONS	4-4-1		144				144			
	Lift height (bottom of fork)		3,675				3,675			
DIMENSIONS	4-5		211				211			
	Height, extended		5,344				5,344			
DIMENSIONS	4-7		120				120			
	Height to top of operator compartment (open cab)		3,055				3,055			
DIMENSIONS	4-7-1		121				121			
	Height, top of operator comp (closed cab)		3,082				3,082			
DIMENSIONS	4-7-2		121				121			
	Height, top of operator comp (closed cab w/ airco)		3,082				3,082			
DIMENSIONS	4-7-3		125				125			
	Height, top of operator comp (closed cab w/ strobe light)		3,177				3,177			
DIMENSIONS	4-7-4		127				127			
	Height, top of operator comp (closed cab w/ work lights)		3,231				3,231			
DIMENSIONS	4-7-5		126				126			
	Height, top of operator comp (closed cab w/ airco & strobe)		3,207				3,207			
DIMENSIONS	4-8		74				74			
	Seat height to seat point index (SIP)		1,875				1,875			
DIMENSIONS	4-12		26				26			
	Tow coupler height		661				661			
DIMENSIONS	4-19		225				225			
	Overall length		5,724				5,724			
DIMENSIONS	4-20		177				177			
	Length to load face		4,504				4,504			
DIMENSIONS	4-21		98				98			
	Overall width of truck		2,490				2,490			
DIMENSIONS	4-22		3 / 8 / 48				3 / 8 / 48			
	Fork dimension		75 / 200 / 1,220				75 / 200 / 1,220			
DIMENSIONS	4-23		Standard pin type carriage				Standard pin type carriage			
	Fork carriage type		Standard pin type carriage				Standard pin type carriage			
DIMENSIONS	4-24		94.3				94.3			
	Carriage width		2,396				2,396			
DIMENSIONS	4-25-1		5.3				5.3			
	Fork spread, min (in-in)		134				134			
DIMENSIONS	4-25-2		88.8				88.8			
	Fork spread, max (out-out)		2,256				2,256			
DIMENSIONS	4-30		0				0			
	Sideshift		0				0			
DIMENSIONS	4-31		10.0				10.0			
	Ground clearance, under mast with load		253				253			
DIMENSIONS	4-32		12.3				12.3			
	Ground clearance, center of wheelbase		313				313			
DIMENSIONS	4-34		194				194			
	Minimum aisle width (add load length & clearance)		4,916				4,916			
DIMENSIONS	4-35		162				162			
	Outside turning radius		4,107				4,107			
DIMENSIONS	4-36		60.6				60.6			
	Inner turning radius		1,538				1,538			
PERFORMANCE	5-1		20				20			
	Travel speed, with / without load (1)		32				32			
PERFORMANCE	5-2		93				93			
	Lifting speed, with / without load		106				106			
PERFORMANCE	5-3		106				106			
	Lowering speed, with / without load		94				94			
PERFORMANCE	5-5		4,100				4,000			
	Drawbar pull - 1 mph (1.6 km/h), with / without load (2)		5,000				5,000			
PERFORMANCE	5-6		9,700				9,600			
	Drawbar pull - max, with / without load (3)		10,600				10,600			
PERFORMANCE	5-7		10				9			
	Gradeability - 1 mph (1.6 km/h), with / without load (2)		18				18			
PERFORMANCE	5-8		20				19			
	Gradeability - max, with / without load (2)		34				33			
ELECTRIC	6-1		46				46			
	Drive motor rating, S2 60 min		46				46			
ELECTRIC	6-2		165				165			
	Lift motor rating at S3 15%		165				165			
ELECTRIC	6-3		Li-ion				Li-ion			
	Battery type		Li-ion				Li-ion			
ELECTRIC	6-4-1		139				139			
	Battery capacity - 2 battery packs		139				139			
ELECTRIC	6-4-1		363				363			
	Battery voltage / nominal capacity - 2 battery packs		384				384			
ELECTRIC	6-5-1		2,727				2,727			
	Battery weight - 2 battery packs		1,237				1,237			
DRIVE	8-1		AC Electric				AC Electric			
	Type of drive unit		AC Electric				AC Electric			
DRIVE	8-3		Kessler / D61				Kessler / D61			
	Wheel drive / drive axle manufacturer / type		Kessler / D61				Kessler / D61			
DRIVE	8-4		Oil immersed (wet) disc				Oil immersed (wet) disc			
	Service brake		Oil immersed (wet) disc				Oil immersed (wet) disc			
DRIVE	8-5		Spring apply, dry disc on drive axle				Spring apply, dry disc on drive axle			
	Parking brake		Spring apply, dry disc on drive axle				Spring apply, dry disc on drive axle			
MISC	10-1		2,828				2,828			
	Working pressure for attachments		19.5				19.5			
MISC	10-2		26.4				26.4			
	Oil volume for attachments		100				100			
MISC	10-3		28.8				28.8			
	Hydraulic oil tank, capacity		109				109			
MISC	10-5		Hydraulic power steering				Hydraulic power steering			
	Steering design		Hydraulic power steering				Hydraulic power steering			
MISC	10-6		5.0				5.0			
	Number of steering rotations		5.0				5.0			
MISC	10-8		Yes / Pin				Yes / Pin			
	Towing coupling, type DIN		Yes / Pin				Yes / Pin			

(1) Laden/unladen travel speed limited to 15.5 mph (25 km/h) from the factory

(2) Peak power

J280XD SPECIFICATIONS

GENERAL	1-1	Manufacturer							HYSTER	
	1-2	Model designation							J280XD	
	1-3	Powertrain / drivetrain							Electric	
	1-4	Operator type							Seated	
	1-5	Rated load capacity	Q	lb	kg	28,000			12,700	
	1-6	Load center	c1	in	mm	24			610	
	1-8	Load distance	x	in	mm	31.9			809	
	1-9	Wheelbase	y	in	mm	114			2,900	
	WEIGHTS	2-1	Total truck weight without load (1)		lb	kg	34,374			15,592
2-2		Axle loading with load, front / rear		lb	kg	57,373	5,000	26,024	2,268	
2-3		Axle loading without load, front / rear		lb	kg	15,677	18,697	7,111	8,481	
WHEELS	3-1	Tire type			Type				Pneumatic	
	3-2	Tire size, front							10.00-20 16PR	
	3-3	Tire size, rear							10.00-20 16PR	
	3-5	Number of tires, front / rear (X driven)			#				x4/2	
	3-6	Tread width, front	b10	in	mm	72.5			1,842	
	3-7	Tread width, rear	b11	in	mm	79.5			2,020	
	DIMENSIONS	4-1	Mast tilt, forward / back	α/β		Degrees				15°F / 12°B
4-2		Height of mast lowered	h1	in	mm	138			3,507	
4-3		Freelift	h2	in	mm	0			0	
4-4		Lift height (top of fork)	h3	in	mm	147			3,750	
4-4-1		Lift height (bottom of fork)		in	mm	144			3,675	
4-5		Height, extended	h4	in	mm	211			5,344	
4-7		Height to top of operator compartment (open cab)	h6	in	mm	120			3,055	
4-7-1		Height, top of operator comp (closed cab)	h6	in	mm	121			3,082	
4-7-2		Height, top of operator comp (closed cab w/ airco)	h6	in	mm	121			3,082	
4-7-3		Height, top of operator comp (closed cab w/ strobe light)	h6	in	mm	125			3,177	
4-7-4		Height, top of operator comp (closed cab w/ work lights)	h6	in	mm	127			3,231	
4-7-5		Height, top of operator comp (closed cab w/ airco & strobe)		in	mm	126			3,207	
4-8		Seat height to seat point index (SIP)	h7	in	mm	74			1,875	
4-12		Tow coupler height	h10	in	mm	26			661	
4-19		Overall length	l1	in	mm	225			5,724	
4-20		Length to load face	l2	in	mm	177			4,504	
4-21		Overall width of truck	b2	in	mm	98			2,490	
4-22		Fork dimension	s/e/l	in	mm	3 / 8 / 48			75 / 200 / 1,220	
4-23		Fork carriage type			Type				Standard pin type carriage	
4-24		Carriage width	b3	in	mm	94.3			2,396	
4-25-1		Fork spread, min (in-in)	b5	in	mm	5.3			134	
4-25-2		Fork spread, max (out-out)	b5	in	mm	88.8			2,256	
4-30		Sideshift	b8	in	mm	0			0	
4-31	Ground clearance, under mast with load	m1	in	mm	10.0			253		
4-32	Ground clearance, center of wheelbase	m2	in	mm	12.3			313		
4-34	Minimum aisle width (add load length & clearance)	Ast	in	mm	194			4,916		
4-35	Outside turning radius	Wa	in	mm	162			4,107		
4-36	Inner turning radius	b13	in	mm	60.6			1,538		
PERFORMANCE	SINGLE POWERTRAIN									
	5-1	Travel speed, with / without load (1)		mph	km/h	20	20	32	32	
	5-2	Lifting speed, with / without load		ft/min	m/s	93	106	0.47	0.54	
	5-3	Lowering speed, with / without load		ft/min	m/s	106	94	0.54	0.48	
	5-5	Drawbar pull - 1 mph (1.6 km/h), with / without load (2)		lb	kN	3,800	4,900	23	25	
	5-6	Drawbar pull - max, with / without load (3)		lb	kN	9,400	10,500	48	50	
	5-7	Gradeability - 1 mph (1.6 km/h), with / without load (2)			%		8		16	
	5-8	Gradeability - max, with / without load (2)			%		17		31	
ELECTRIC	6-1	Drive motor rating, S2 60 min		kW	kW		46			
	6-2	Lift motor rating at S3 15%		kW	kW		165			
	6-3	Battery type			Type				Li-ion	
	6-4-1	Battery capacity - 2 battery packs			kWh		139			
	6-4-1	Battery voltage / nominal capacity - 2 battery packs			V / Ah		363		384	
6-5-1	Battery weight - 2 battery packs		lb	kg	2,727			1,237		
DRIVE	8-1	Type of drive unit			Type / #				AC Electric	
	8-3	Wheel drive / drive axle manufacturer / type			Type				Kessler / D61	
	8-4	Service brake			Type				Oil immersed (wet) disc	
	8-5	Parking brake			Type				Spring apply, dry disc on drive axle	
	10-1	Working pressure for attachments		psi	MPa	2,828			19.5	
MISC	10-2	Oil volume for attachments		gpm	l/m	26.4			100	
	10-3	Hydraulic oil tank, capacity		gal	l	28.8			109	
	10-5	Steering design			Type				Hydraulic power steering	
	10-6	Number of steering rotations			#				5.0	
	10-8	Towing coupling, type DIN			Type				Yes / Pin	

(1) Laden/unladen travel speed limited to 15.5 mph (25 km/h) from the factory

(2) Peak power

BATTERY SPECIFICATIONS

J230-280XD BATTERY CHARGER SPECIFICATIONS												
Input voltage	Charge rate (kW)	Enclosure size						Charger plug cable length		Operating range		Manufacturer
		Height		Width		Thickness		ft	M	F	C	
		in	mm	in	mm	in	mm					
480V, 3 PHASE, 60HZ	10	65	1654	40	1006.5	20	503	25	7.62	-4° to 122°	-20° to 50°	BORG WARNER
480V, 3 PHASE, 60HZ	36	65	1654	40	1006.5	20	503	25	7.62	-4° to 122°	-20° to 50°	BORG WARNER
480V, 3 PHASE, 60HZ	45	65	1654	40	1006.5	20	503	25	7.62	-4° to 122°	-20° to 50°	BORG WARNER
480V, 3 PHASE, 60HZ	75	65	1654	72	1822	20	503	25	7.62	-4° to 122°	-20° to 50°	BORG WARNER
480V, 3 PHASE, 60HZ	90	65	1654	72	1822	20	503	25	7.62	-4° to 122°	-20° to 50°	BORG WARNER

Wall power cable is not included. The charger has an enclosure rating of IP54 and is equipped with emergency stop and anti-arc.

The battery charge time and run time tables are a helpful guide to visualize the truck charge and run time with different batteries in different applications. (The tables are a guide only and not a replacement for a site survey and full power study.)

Heavy – High throughput, typically runs full capacity, runs either attachments or has high lifts

Medium – High throughput, runs near capacity without attachments or high lifts

Light – Lower throughput, runs less than rated capacity without attachments or high lifts

J230-280XD BATTERY CHARGE TIME		
Battery capacity (kWh)	Charger power (kW)	Time to full charge (minutes)
68.7	50	82
137.4	50	165
137.4	80	103
137.4	90	92
206.1	50	247
206.1	80	155
206.1	90	137
274.8	50	330
274.8	80	206
274.8	90	183

J230-280XD BATTERY RUN TIME (HOURS)			
Battery capacity (kWh)	Light application (14.5 kW/h)	Normal application (21.8 kW/h)	Heavy application (29 kW/h)
137.4	9.5	6.3	4.7
206.1	14.2	9.5	7.1
274.8	19.0	12.6	9.5

CAPACITY SPECIFICATIONS

RATED CAPACITY: J230-250XD @ 24 IN (610 MM) LOAD CENTER

2-STAGE NFL	Lift height TOF		Lift height BOF		Overall lowered height		Overall extended height		Mast max roller lap (retracted)		Mast max roller lap (extended)		Mast weight		Standard pin type carriage				Apron pin type carriage				QD DFSSFP carriage			
															J230XD		J250XD		J230XD		J250XD		J230XD		J250XD	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg
108	2,750	105	2,675	119	3,007	172	4,344	98	2,488	45	1,150	4,209	1,909	23,000	10,433	25,000	11,340	23,000	10,433	25,000	11,340	22,900	10,387	24,500	11,113	
118	3,000	115	2,925	124	3,132	181	4,594	103	2,613	45	1,150	4,339	1,968	23,000	10,433	25,000	11,340	23,000	10,433	25,000	11,340	22,900	10,387	24,500	11,113	
127	3,250	124	3,175	129	3,257	191	4,844	108	2,738	45	1,150	4,464	2,025	23,000	10,433	25,000	11,340	23,000	10,433	25,000	11,340	22,900	10,387	24,500	11,113	
137	3,500	134	3,425	134	3,382	201	5,094	113	2,863	45	1,150	4,597	2,085	23,000	10,433	25,000	11,340	23,000	10,433	25,000	11,340	22,800	10,342	24,500	11,113	
147	3,750	144	3,675	139	3,507	211	5,344	118	2,988	45	1,150	4,727	2,144	23,000	10,433	25,000	11,340	23,000	10,433	25,000	11,340	22,800	10,342	24,500	11,113	
157	4,000	154	3,925	143	3,632	221	5,594	123	3,113	45	1,150	4,850	2,200	23,000	10,433	25,000	11,340	23,000	10,433	25,000	11,340	22,700	10,297	24,500	11,113	
177	4,500	174	4,425	153	3,882	240	6,094	132	3,363	45	1,150	5,179	2,349	23,000	10,433	25,000	11,340	23,000	10,433	25,000	11,340	22,700	10,297	24,500	11,113	
187	4,750	184	4,675	158	4,007	250	6,344	137	3,488	45	1,150	5,309	2,408	23,000	10,433	25,000	11,340	23,000	10,433	25,000	11,340	22,600	10,251	24,500	11,113	
196	5,000	193	4,925	163	4,132	260	6,594	142	3,613	45	1,150	5,670	2,572	23,000	10,433	25,000	11,340	23,000	10,433	25,000	11,340	22,600	10,251	24,500	11,113	
216	5,500	213	5,425	173	4,382	280	7,094	152	3,863	45	1,150	5,926	2,688	22,600	10,251	24,600	11,158	22,600	10,251	24,600	11,158	22,200	10,070	24,100	10,932	
236	6,000	233	5,925	183	4,632	299	7,594	162	4,113	45	1,150	6,184	2,805	22,200	10,070	24,200	10,977	22,200	10,070	24,100	10,932	21,700	9,843	22,400	10,160	
246	6,250	243	6,175	188	4,757	309	7,844	167	4,238	45	1,150	6,314	2,864	22,000	9,979	24,000	10,886	22,000	9,979	23,900	10,841	20,100	9,117	22,100	10,024	
255	6,500	252	6,425	193	4,882	319	8,094	173	4,393	45	1,150	6,444	2,923	21,800	9,888	23,800	10,795	21,800	9,888	23,600	10,705	18,200	8,255	18,100	8,210	
275	7,000	272	6,925	203	5,132	339	8,594	182	4,613	45	1,150	6,700	3,039	21,400	9,707	23,300	10,569	21,300	9,662	23,100	10,478	14,700	6,668	14,400	6,532	

Capacities are calculated using 48" x 3" x 8" forks.

RATED CAPACITY: J280XD @ 24 IN (610 MM) LOAD CENTER

2-STAGE NFL	Lift Height TOF		Lift Height BOF		Overall lowered height		Overall extended height		Mast max roller lap (retracted)		Mast max roller lap (extended)		Mast weight		Standard pin type carriage				Apron pin type carriage				QD DFSSFP Carriage			
															J230XD		J250XD		J230XD		J250XD		J230XD		J250XD	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg
108	2,750	105	2,675	119	3,007	172	4,344	98	2,488	45	1,150	4,209	1,909	23,000	10,433	25,000	11,340	23,000	10,433	25,000	11,340	22,900	10,387	24,500	11,113	
118	3,000	115	2,925	124	3,132	181	4,594	103	2,613	45	1,150	4,339	1,968	23,000	10,433	25,000	11,340	23,000	10,433	25,000	11,340	22,900	10,387	24,500	11,113	
127	3,250	124	3,175	129	3,257	191	4,844	108	2,738	45	1,150	4,464	2,025	23,000	10,433	25,000	11,340	23,000	10,433	25,000	11,340	22,900	10,387	24,500	11,113	
137	3,500	134	3,425	134	3,382	201	5,094	113	2,863	45	1,150	4,597	2,085	23,000	10,433	25,000	11,340	23,000	10,433	25,000	11,340	22,800	10,342	24,500	11,113	
147	3,750	144	3,675	139	3,507	211	5,344	118	2,988	45	1,150	4,727	2,144	23,000	10,433	25,000	11,340	23,000	10,433	25,000	11,340	22,800	10,342	24,500	11,113	
157	4,000	154	3,925	143	3,632	221	5,594	123	3,113	45	1,150	4,850	2,200	23,000	10,433	25,000	11,340	23,000	10,433	25,000	11,340	22,700	10,297	24,500	11,113	
177	4,500	174	4,425	153	3,882	240	6,094	132	3,363	45	1,150	5,179	2,349	23,000	10,433	25,000	11,340	23,000	10,433	25,000	11,340	22,700	10,297	24,500	11,113	
187	4,750	184	4,675	158	4,007	250	6,344	137	3,488	45	1,150	5,309	2,408	23,000	10,433	25,000	11,340	23,000	10,433	25,000	11,340	22,600	10,251	24,500	11,113	
196	5,000	193	4,925	163	4,132	260	6,594	142	3,613	45	1,150	5,670	2,572	23,000	10,433	25,000	11,340	23,000	10,433	25,000	11,340	22,600	10,251	24,500	11,113	
216	5,500	213	5,425	173	4,382	280	7,094	152	3,863	45	1,150	5,926	2,688	22,600	10,251	24,600	11,158	22,600	10,251	24,600	11,158	22,200	10,070	24,100	10,932	
236	6,000	233	5,925	183	4,632	299	7,594	162	4,113	45	1,150	6,184	2,805	22,200	10,070	24,200	10,977	22,200	10,070	24,100	10,932	21,700	9,843	22,400	10,160	
246	6,250	243	6,175	188	4,757	309	7,844	167	4,238	45	1,150	6,314	2,864	22,000	9,979	24,000	10,886	22,000	9,979	23,900	10,841	20,100	9,117	22,100	10,024	
255	6,500	252	6,425	193	4,882	319	8,094	173	4,393	45	1,150	6,444	2,923	21,800	9,888	23,800	10,795	21,800	9,888	23,600	10,705	18,200	8,255	18,100	8,210	
275	7,000	272	6,925	203	5,132	339	8,594	182	4,613	45	1,150	6,700	3,039	21,400	9,707	23,300	10,569	21,300	9,662	23,100	10,478	14,700	6,668	14,400	6,532	

Capacities are calculated using 48" x 3" x 8" forks.

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.

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.

Specification data is based on VDI 2198.

FEATURES AND OPTIONS

PERFORMANCE	STD	OPT
350V integrated lithium-ion battery with battery management system	x	
One additional 350V lithium-ion battery pack		x
Traction motor rated 62 hp (46 kW) / peak 145 hp (108 kW)	x	
On-demand cooling fan	x	
Liquid cooling system for motors and controllers	x	
Performance modes selectable in integrated performance display	x	
Powertrain protection system	x	
Kessler D61 drive axle with wet disc brakes	x	
DRIVE	STD	OPT
Travel speed limiter - unconditional and customer adjustable		x
Travel speed limiter - loaded (adjustable)		x
10.00 - 20 16PR pneumatic bias ply drive and steer tires	x	
10.00 - R20 Michelin XZM radial drive and steer tires		x
10.00 - R20 Trelleborg radial drive and steer tires		x
10.00 - 20 Pneumatic shaped solid drive and steer tires		x
LIFT	STD	OPT
Hydraulic motor rated 99 hp (74 kW) / peak 223 hp (166 kW)	x	
On-demand load sensing hydraulic system	x	
Variable lap mast for low roller forces	x	
2-stage non free lift mast	x	
2-stage full free lift mast		x
3-stage full free lift mast		x
Mast tilt - 5° forward / 6° back		x
Mast tilt - 5° forward / 12° back		x
Mast tilt - 15° forward / 10° back		x
Mast tilt - 15° forward / 12° back	x	
Mast tilt - 20.5° forward / 7° back		x
Mast tilt indicator - mechanical		x
Hydraulic accumulator		x
Pressure compensated lowering	x	
Hydraulic system temperature protection with performance de-rate		x
HANDLING	STD	OPT
94.3" (2396 mm) Pin type carriage with mechanical fork locks	x	
94.3" (2396 mm) Pin type carriage with simultaneous and independent fork positioner		x
94.3" (2396mm) Pin type carriage with simultaneous and independent fork positioner (for lumber applications)		x
94.3" (2396 mm) Pin type apron-style sideshift carriage		x
92.5" (2350 mm) Pin type apron-style sideshift carriage with simultaneous fork positioner		x
94.3" (2396 mm) Pin type apron-style sideshift carriage with simultaneous and independent fork positioner		x
94.3" (2396 mm) Pin type apron-style sideshift carriage with simultaneous and independent fork positioner (for lumber applications)		x
94.4" (2398 mm) QD hook type dual function sideshift carriage with simultaneous and independent fork positioner		x
94.4" (2398 mm) QD hook type dual function sideshift carriage with simultaneous fork positioner and 2 auxiliary functions		x
69" (1760 mm) High load backrest		x

HANDLING (CONTINUED)	STD	OPT
79" (2010 mm) High load backrest		x
98" (2500 mm) High load stabilizer (for lumber applications)		x
48" long x 3" thick x 7.9" wide (1220 mm x 75 mm x 200 mm) forks	x	
Pin type forks (various sizes)		x
Pin type forks for lumber applications		x
Hook type quick disconnect DFSSFP forks (various sizes)		x
ERGONOMICS	STD	OPT
Open operator compartment (without doors & screens)	x	
Enclosed operator cabin		x
Manual tilt operator compartment for service	x	
Powered tilt operator compartment for service		x
Isolated cabin mounting for low noise and vibration	x	
Operator presence system	x	
Mechanical suspension seat	x	
Air suspension seat		x
Deluxe air suspension seat		x
Low backrest seat	x	
High backrest seat		x
Armrest on left side		x
Cloth seat cover		x
Vinyl seat cover	x	
Seat heating		x
Seat ventilation		x
2-point high visibility seatbelt	x	
Lateral seat sliding mechanism		x
Floor mat	x	
Coat hook	x	
Front, top and rear wipers		x
"H"-pattern front wiper (enclosed operator cabin)		x
"I"-pattern front wiper (enclosed operator cabin)		x
Laminated glass operator compartment front window		x
Tinted operator compartment windows (doors, rear and top window)		x
Tinted operator compartment top window		x
Armoured glass rain top		x
Lexan top window		x
Plexiglass shield in front of front window		x
Wire mesh installed on top of operator compartment		x
Vertical steel bar front window guard		x
Operator shield wire mesh		x
7" Integrated performance display	x	
TouchPoint™ mini levers hydraulic control integrated in control arm	x	
Joystick hydraulic control integrated in control arm		x
Steering wheel without spinner knob	x	
Steering wheel with spinner knob		x
Directional control lever on steering column	x	
Hyster MONOTROL® pedal directional control		x
Directional control on mini-levers or joystick		x


FEATURES AND OPTIONS

ERGONOMICS (CONTINUED)	STD	OPT
Park brake - automatically applied	x	
Heater with adjustable speed fan (enclosed operator cabin)		x
Telescoping & tilting steering column	x	
USB outlet inside armrest	x	
24-12 volt DC converter with 1 socket and 2 USB outlets	x	
24-12 volt DC converter with 2 sockets and 2 USB outlets		x
Air conditioning		x
Automatic climate control		x
Reading light		x
Sun shades on top and rear		x
Sun visors front window		x
Cloth trainer seat with 2-point seatbelt		x
Recirculation fan		x
Additional recirculation fan		x
Accessory mounting bracket on cab front right pillar		x
Document holder on cab front right pillar		x
Heated top- and/or rear window		x
Radio preparation with 2 speakers and antenna		x
VISIBILITY	STD	OPT
Steel bars on top of cab (open operator compartment)	x	
Top window with armored glass (enclosed operator cabin)	x	
Steel bars under armored glass top window (enclosed operator cabin)		x
Interior wide angle mirrors	x	
Exterior mirrors mounted to cab		x
Rear view camera system		x
Radar object detection system		x
High performance LED work lights		x
Two head lights mounted on front fenders		x
Four mast mounted work lights		x
Four cabin mounted work lights		x
Two rearward work lights mounted on the cabin		x
LED stop/tail/brake lights	x	
Turn signals, hazard & marker lights (LED)		x

OPERATION	STD	OPT
Air horn 112 dBA		x
Electric horn 105 dBA	x	
Visible alarm – amber strobe light, ignition activated		x
Audible alarm – reverse direction activated 82–102 dB(a), self-adjusting (6)		x
Audible alarm – reverse direction white noise		x
Forward / reverse motion alarm		x
Blue LED spotlight – rear / front and rear		x
Tire pressure monitoring system		x
Air conditioning shut-off with open door		x
Lockable battery disconnect switch	x	
Operator password (display) for truck start	x	
Seatbelt interlock for truck start		x
Power distribution group with fuses	x	
Fuses below 30 amps replaced by electric circuit breakers		x
Hyster Tracker™ wireless asset management - access / verification		x
Hyster Tracker™ wireless asset management - monitoring	x	
Auto greasing system for basic truck & outer mast		x
24 volt electrical system	x	
Steer wheel lug nut protection		x
Front and/or rear mud guards		x
Lifting eyes - 2 front and 2 rear		x
APPEARANCE	STD	OPT
Second capacity plate		x
Hyster yellow paint base truck	x	
Special paint base truck		x
Operator compartment special paint (complete cabin)		x
Hazard warning striping on counterweight		x
SUPPLEMENTAL	STD	OPT
Literature package	x	
Operator's manual	x	
12 months / 2,000 hours manufacturer's warranty, 24 months/4,000 hours manufacturer's powertrain warranty, 60 months / 10,000 hours / 270,000 AHR factory installed integrated li-ion battery warranty	x	



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