

CAPACITIES AND SPECIFICATIONS

**V30ZMD [D210/E210];
E2.00-3.20XM (E45-65Z) [G108]**



HYSTER

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This section is for the following models:

V30ZMD [D210/E210];
E2.00-3.20XM (E45-65Z) [G108]

Counterweights

Model	* mm (* in.)	Weight	+ 50 kg (110 lb) – 0 kg (0 lb)
E2.00XM and E2.50XM	700 mm (27.6 in.)	544 kg (1200 lb)	
E2.50XM (E50Z)	847 mm (33.3 in.)		
E3.00XM	1015 mm (40.0 in.)		
E45Z	700 mm (27.6 in.)	770 kg (1700 lb)	
E55Z and E2.50XM (E65Z), E3.00XM	847 mm (33.3 in.)		
E3.20XM and V30ZMD	1015 mm (40.0 in.)		
E50Z and E2.50XM	700 mm (27.6 in.)	976 kg (2152 lb)	
E60Z and E3.00XM	847 mm (33.3 in.)		
*Approximate battery compartment lengths (identifies frame size).			

Hydraulic System

Table 1. Manual Hydraulic Control Valve

Item	Specification
Relief Pressure, Lift System	
E2.00-3.20XM (E45-65Z) and V30ZMD	21.7 ±0.7 MPa (3000 ±100 psi)
Relief Pressure, Tilt System E2.00-3.20XM (E45-65Z) (G108)	
With Auxiliary Relief Valve	15.75 ±0.7 MPa (2250 ±100 psi)
Without Auxiliary Relief Valve	21.7 ±0.7 MPa (3100 ±100 psi)
V30ZMD (D210) Sideshift, Traverse, and Rotate	
With Auxiliary Relief Valve	15.75 ±0.7 MPa (2250 ±100 psi)
Relief Pressure, Auxiliary	15.75 ±0.7 MPa (2250 ±100 psi)
Relief Pressure, Steering System	8620 ±248 kPa (1250 ±36 psi)
*Oil temperature 54 to 66°C (130 to 150°F).	

Table 2. E-Hydraulic Control Valve

Item	Specification
Relief Pressure, Lift System (Primary Relief Valve)	22.07 ±0.7 MPa (3300 ±100 psi)
Relief Pressure, Tilt System and Auxiliary Functions (Secondary Relief Valve)	15.5 ±0.7 MPa (2250 ±100 psi)
Relief Pressure, Steering System	8620 ±248 kPa (1250 ±36 psi)
Oil temperature 54 to 66°C (130 to 150°F).	

Steering System

SPECIFICATIONS

Item	36/48 Volt	72/80 Volts
Steering Oil Temperature	49 to 60°C (120 to 140°F)	49 to 60°C (120 to 140°F)
Inside Tire Angle	82°	82°
Number of Turns on Steer Wheel	3.9	3.9
Steering Relief Pressure	8,618 ±248 kPa (1250 ±36 psi)	8,618 ±248 kPa (1250 ±36 psi)
Steering Relief Current	43.5 Amps	37 Amps
Open Center Pressure Maximum	345 kPa (50 psi) Max.	345 kPa (50 psi) Max.
Open Center Current Maximum	9.5 Amps Max.	5 Amps
Steering Time (Unloaded Static)	2.5 Seconds	2.5 Seconds
Hand Pump Displacement (Nominal)	70 CC/Rev.	70 CC/Rev.

TURNING RADIUS

Model	Turning Radius
700 mm (27.5 in.) Battery Compartment	
E2.00XM (E45Z)	1695 mm (66.73 in.)
E2.50XM (E50Z)	1732 mm (68.19 in.)
847 mm (33.5 in.) Battery Compartment	
E2.00-E2.50XM (E45-50Z)	1814 mm (71.42 in.)
E55Z	1852 mm (72.91 in.)
E3.00XM (E60Z)	1889 mm (74.37 in.)
1015 mm (40 in.) Battery Compartment	
E3.20XM (E65Z)	2069 mm (81.5 in.)
E3.20XM (E65Z)	2069 mm (81.5 in.)
V30ZMD	2069 mm (81.5 in.)
Minimum Turing Radius Average Values ±50 mm (±2 in.) (WITH LOAD)	

Wheels and Tires

Item	Specification
Torque - Wheel Nuts, Drive Tires	237 to 305 N•m (175 to 225 lbf ft)
Torque - Steering Wheel Bearing Nut **	
Initial Torque	68 N•m (50 lbf ft)
Final Torque	3 N•m (25 lbf in)
E2.00-3.00XM (E45-65Z and V30ZMD)	
Drive Tires, Size Standard E2.00-3.20XM (E45-65Z)	21 × 7 × 15*
Drive Tires, Size Standard V30ZMD	21 × 8 × 15
Drive Tires, Size Optional	21 × 8 × 15*
Steering Tires, Size Standard	16 × 5 × 10.5*
Steering Tires, Size Optional	16 × 6 × 10.5*
*Smooth, lug tread; standard and nonmarking, electric compound and for <u>all models</u> , smooth polyurethane.	
**See Steering Axle 1600 SRM 258 for correct procedure.	

Battery Specifications

E2.00-3.20XM (E45-65Z, V30ZMD)

Model	Minimum Compartment Size Length x Width	Battery Size Minimum/ Maximum		Weight	
		Length	Width	Minimum	Maximum
E2.00XM, E2.50XM	695 x 987 mm (27.4 x 38.8 in.)	978/983 mm (38.5/38.7 in.)	681/691 mm (26.8/27.2 in.)	985 kg (2172 lb)	1453 kg (3203 lb)
E45-50Z				1044 kg (2302 lb)	1498 kg (3302 lb)
E2.50XM, E3.00XM	842 x 987 mm (33.1 x 38.8 in.)		800/838 mm (31.5/33.0 in.)	1317 kg (2903 lb)	1771 kg (3904 lb)
(E45-60Z)					
E3.00-3.20XM (E65Z)(V30ZMD)	1010 x 987 mm (39.8 x 38.8 in.)		1001/1006 mm (39.4/39.6 in.)	1553 kg (3424 lb)	1998 kg (4405 lb)

612 mm (24.1 in.) = maximum height for batteries with a cover.

579 mm (22.8 in.) = maximum height for batteries without a cover.

The tolerances of the battery compartment are +3 and -0 mm (+0.118 and -0 in.). The battery size column shows the size range that will permit the battery to still fit into a battery compartment.

The battery compartment length is front to back. Width is side to side. The length dimension of the battery must fit within the battery compartment side-to-side dimension with a clearance of 0 to 13 mm (0 to 0.5 in.) maximum. Battery width must fit within the battery compartment front-to-back dimension.

 **WARNING**

The battery must fit the battery compartment so that the battery restraint system will operate correctly. Use only batteries with the correct length shown in this table. Adjust the spacer plate and side spacers to prevent the battery from moving more than 13 mm (0.5 in.) forward or backward.

Capacities

Item	Specification
Hydraulic System (Full Mark on Dipstick)*	
E2.00-3.20XM (E45-65Z and V30ZMD)	21.2 liter (5.6 gal)
Differential/Speed Reducer	
E2.00-3.20XM (E45-65Z and V30ZMD)	4.2 liter (8.8 pt)
Brake Fluid	0.24 liter (0.5 pt)
Hydraulic Pump Capacities**	
Large Lift Pump	19 cc/rev. (1.16 in. ³ /rev.)
Small Lift Pumps	12 cc/rev. (0.73 in. ³ /rev.)
Steering Pump, 36V	4.23 cc/rev. (0.26 in. ³ /rev.)
Steering Pump, 72V	5.29 cc/rev. (0.32in. ³ /rev)
*Check after all air is removed from the system and with the mast fully lowered.	
**Oil temperature at 54 to 66°C (130 to 150°F)	

Drift Rates (Maximum) for Tilt Cylinders

Lift Truck Model	Hydraulic Oil Temperature/Mast Tilt Rate				
	°C	°F	°/Min	mm/min	in/min
All Models (Except V30ZMD)	20	68	0.1	1.0	0.04
	30	86	0.15	1.5	0.06
	40	104	0.29	2.9	0.11
	50	122	0.47	4.7	0.18
	60	140	0.66	6.8	0.27

Mast Speeds

E45-65Z (G108), AND V30ZMD (D210/E210) MAST SPEEDS (36 OR 48 VOLT) AMERICAS

AC/DC Motor With Standard Pump										
Model	Mast	V	Lifting				Lowering			
			Rated Load		No Load		Rated Load		No Load	
			m/sec	ft/min	m/sec	ft/min	m/sec	ft/min	m/sec	ft/min
E45Z	Two-Stage LFL	36	0.295	58	0.513	101	0.569	112	0.508	100
		48	0.396	78	0.625	123				
	Two-Stage FFL	36	0.305	60	0.472	93	0.523	103	0.457	90
		48	0.396	78	0.625	123				
Three-Stage FFL	36	0.295	58	0.462	91	0.538	106	0.467	92	
	48	0.396	78	0.610	120					
Four-Stage FFL	36	0.290	57	0.508	100	0.447	88	0.391	77	
	48	0.401	79	0.640	126					
E50Z	Two-Stage LFL	36	0.284	56	0.513	101	0.574	113	0.508	100
		48	0.376	74	0.625	123				
	Two-Stage FFL	36	0.295	58	0.472	93	0.538	106	0.457	90
		48	0.381	75	0.625	123				
Three-Stage FFL	36	0.290	57	0.462	91	0.549	108	0.467	92	
	48	0.381	75	0.610	120					
Four-Stage FFL	36	0.279	55	0.508	100	0.462	91	0.391	77	
	48	0.381	75	0.640	126					

LFL = Limited Free Lift

FFL = Full Free Lift

Oil temperature 54 to 66°C (130 to 150°F). Lifting speeds (valve fully open) ±10% acceptable. No Load lowering speeds are minimum values. Rated Load lowering speeds are maximum values.

N/A = Not Available.

AC/DC Motor With Standard Pump										
Model	Mast	V	Lifting				Lowering			
			Rated Load		No Load		Rated Load		No Load	
			m/sec	ft/min	m/sec	ft/min	m/sec	ft/min	m/sec	ft/min
E55Z	Two-Stage LFL	36 48	0.274 0.361	54 71	0.513 0.625	101 123	0.584	115	0.508	100
	Two-Stage FFL	36 48	0.284 0.371	56 73	0.472 0.625	93 123	0.554	109	0.457	90
	Three-Stage FFL	36 48	0.279 0.371	55 73	0.462 0.610	91 120	0.559	110	0.467	92
	Four-Stage FFL	36 48	0.274 0.376	54 74	0.508 0.640	100 126	0.483	95	0.391	77
E60Z	Two-Stage LFL	36 48	0.249 0.325	49 64	0.472 0.589	93 116	0.569	112	0.457	90
	Two-Stage FFL	36 48	0.249 0.330	49 65	0.472 0.625	93 123	0.538	106	0.366	72
	Three-Stage FFL	36 48	0.249 0.330	49 65	0.462 0.610	91 120	0.544	107	0.396	78
	Four-Stage FFL	36 48	0.269 0.366	53 72	0.508 0.640	100 126	0.503	99	0.391	77
E65Z	Two-Stage LFL	36 48	0.239 0.315	47 62	0.472 0.589	93 116	0.559	110	0.457	90
	Two-Stage FFL	36 48	0.244 0.320	48 63	0.472 0.625	93 123	0.523	103	0.366	72
	Three-Stage FFL	36 48	0.244 0.320	48 63	0.462 0.610	91 120	0.533	105	0.396	78

LFL = Limited Free Lift

FFL = Full Free Lift

Oil temperature 54 to 66°C (130 to 150°F). Lifting speeds (valve fully open) ±10% acceptable. No Load lowering speeds are minimum values. Rated Load lowering speeds are maximum values.

N/A = Not Available.

AC/DC Motor With Standard Pump										
Model	Mast	V	Lifting				Lowering			
			Rated Load		No Load		Rated Load		No Load	
			m/sec	ft/min	m/sec	ft/min	m/sec	ft/min	m/sec	ft/min
	Four-Stage FFL	36	0.264	52	0.508	100	0.522	103	0.391	77
		48	0.356	70	0.640	126				
V30ZMD	Three-Stage FFL	36 48	N/A N/A	N/A N/A	N/A N/A	N/A N/A	0.462	91	0.462	91

LFL = Limited Free Lift
 FFL = Full Free Lift
 Oil temperature 54 to 66°C (130 to 150°F). Lifting speeds (valve fully open) ±10% acceptable. No Load lowering speeds are minimum values. Rated Load lowering speeds are maximum values.
 N/A = Not Available.

E2.00-3.20XM MAST SPEEDS (72 OR 80 VOLT) EUROPE

AC/DC Motor With Standard Pump										
Model	Mast	V	Lifting				Lowering			
			Rated Load		No Load		Rated Load		No Load	
			m/sec	ft/sec	m/sec	ft/sec	m/sec	ft/sec	m/sec	ft/sec
E2.00XM	Two-Stage LFL	72	0.376	74	0.544	407	0.559	112	0.508	100
		80	0.422	83	0.605	119				
	Two-Stage FFL	72	0.396	78	0.569	112	0.508	103	0.457	90
		80	0.442	87	0.635	125				
	Three-Stage FFL	72	0.386	76	0.559	110	0.528	106	0.467	92
		80	0.432	85	0.625	123				
	Four-Stage FFL	72	0.330	65	0.483	110	0.447	88	0.411	77
		80	0.366	72	0.538	129				

LFL = Limited Free Lift
 FFL = Full Free Lift
 Oil temperature 54 to 66°C (130 to 150°F). Lifting speeds (valve fully open) ±10% acceptable. No Load lowering speeds are minimum values. Rated Load lowering speeds are maximum values.

AC/DC Motor With Standard Pump										
Model	Mast	V	Lifting				Lowering			
			Rated Load		No Load		Rated Load		No Load	
			m/sec	ft/sec	m/sec	ft/sec	m/sec	ft/sec	m/sec	ft/sec
E2.50XM	Two-Stage LFL	72 80	0.345 0.391	68 77	0.544 0.605	107 119	0.574	115	0.508	110
	Two-Stage FFL	72 80	0.366 0.411	72 81	0.569 0.635	112 125	0.538	109	0.457	90
	Three-Stage FFL	72 80	0.356 0.401	70 79	0.559 0.625	110 123	0.549	110	0.467	92
	Four-Stage FFL	72 80	0.315 0.351	62 69	0.483 0.538	110 129	0.447	95	0.411	77
E3.00XM	Two-Stage LFL	72 80	0.300 0.335	59 66	0.488 0.544	96 102	0.569	110	0.457	90
	Two-Stage FFL	72 80	0.310 0.345	61 68	0.503 0.564	99 111	0.538	103	0.366	72
	Three-Stage FFL	72 80	0.310 0.345	61 68	0.503 0.559	99 110	0.544	105	0.396	78
	Four-Stage FFL	72 80	0.295 0.320	58 63	0.589 0.655	110 129	0.503	99	0.391	77
E3.20XM	Two-Stage LFL	72 80	0.295 0.330	58 65	0.488 0.544	96 107	0.559	112	0.457	90
	Two-Stage FFL	72 80	0.300 0.335	59 66	0.503 0.564	99 111	0.523	105	0.366	90
	Three-Stage FFL	72 80	0.300 0.335	59 66	0.503 0.559	99 110	0.533	107	0.396	78
	Four-Stage FFL	72 80	0.290 0.310	57 61	0.589 0.655	110 129	0.533	105	0.391	77

LFL = Limited Free Lift

FFL = Full Free Lift

Oil temperature 54 to 66°C (130 to 150°F). Lifting speeds (valve fully open) ±10% acceptable. No Load lowering speeds are minimum values. Rated Load lowering speeds are maximum values.

E2.00-3.20XM MAST SPEEDS (72 OR 80 VOLT) EUROPE

DC Motor With Small Pump										
Model	Mast	V	Lifting				Lowering			
			Rated Load		No Load		Rated Load		No Load	
			m/sec	ft/sec	m/sec	ft/sec	m/sec	ft/sec	m/sec	ft/sec
E2.00XM	Two-Stage LFL	72	0.290	57	0.411	81	0.569	112	0.508	100
		80	0.310	61	0.462	91				
	Two-Stage FFL	72	0.300	59	0.432	85	0.523	103	0.457	90
		80	0.330	65	0.478	94				
Three-Stage FFL	72	0.295	58	0.422	83	0.528	106	0.467	92	
	80	0.320	63	0.472	93					
Four-Stage FFL	72	0.310	61	0.406	80	0.447	88	0.391	77	
	80	0.340	67	0.447	88					
E2.50XM	Two-Stage LFL	72	0.274	54	0.411	81	0.584	115	0.508	100
		80	0.295	58	0.462	91				
	Two-Stage FFL	72	0.279	55	0.432	85	0.554	109	0.457	90
		80	0.305	60	0.478	94				
Three-Stage FFL	72	0.279	55	0.422	83	0.559	110	0.467	92	
	80	0.300	59	0.472	93					
Four-Stage FFL	72	0.295	58	0.406	80	0.483	95	0.391	77	
	80	0.325	64	0.447	88					
E3.00XM	Two-Stage LFL	72	0.229	45	0.371	73	0.559	110	0.457	90
		80	0.259	51	0.411	81				
	Two-Stage FFL	72	0.234	46	0.381	75	0.523	103	0.366	72
80		0.259	51	0.422	83					
Three-Stage FFL	72	0.234	46	0.366	72	0.533	105	0.396	78	
	80	0.259	51	0.422	83					

LFL = Limited Free Lift

FFL = Full Free Lift

Oil temperature 54 to 66°C (130 to 150°F). Lifting speeds (valve fully open) ±10% acceptable. No Load lowering speeds are minimum values. Rated Load lowering speeds are maximum values.

N/A = Not Available.

DC Motor With Small Pump										
Model	Mast	V	Lifting				Lowering			
			Rated Load		No Load		Rated Load		No Load	
			m/sec	ft/sec	m/sec	ft/sec	m/sec	ft/sec	m/sec	ft/sec
E3.20XM	Two-Stage LFL	72	0.229	45	0.488	73	0.569	112	0.457	90
		80	0.254	50	0.411	81				
	Two-Stage FFL	72	0.229	45	0.381	75	0.533	105	0.366	72
		80	0.254	50	0.422	83				
	Three-Stage FFL	72	0.229	45	0.366	72	0.544	107	0.396	78
		80	0.254	50	0.422	83				

LFL = Limited Free Lift
 FFL = Full Free Lift
 Oil temperature 54 to 66°C (130 to 150°F). Lifting speeds (valve fully open) ±10% acceptable. No Load lowering speeds are minimum values. Rated Load lowering speeds are maximum values.
 N/A = Not Available.

Torque Specifications

FRAME

Overhead Guard - Front Leg M12 × 1.75 × 50 Capscrews (3) 56 N•m (41 lbf ft)

Overhead Guard - Rear Leg M12 × 1.75 × 50 Capscrews (2) 89 N•m (66 lbf ft)

Counterweight Capscrews - Upper Capscrews (2)
 E2.00-3.20XM (E45-65Z) 380 N•m (280 lbf ft)

Counterweight Capscrews - Lower (tow pin) M12 × 1.75 × 90 Capscrews (2)
 66 N•m (49 lbf ft)

Counterweight Capscrews - Cover 3/8 UNC × 1-1/4 Capscrews (2)
 52 N•m (38 lbf ft)

DRIVE AXLE, SPEED REDUCER, AND DIFFERENTIAL E.200-3.20XM (E45-65Z AND V30ZMD)

Wheel Nuts
 237 to 305 N•m (175 to 225 lbf ft)

Wheel Lock Nut

68 N•m (50 lbf ft) Initial
 3 N•m (25 lbf in) Final

Axle Housing (differential) to Spindle Housing (axle) M12 × 1.75 × 35 Capscrews (16 each side)
 90 N•m (66 lbf ft)

Axle Flange M12 × 1.75 × 35 Capscrews (16 ea. axle)
 90 N•m (66 lbf ft)

Axle Hangers to Frame

Torque wrench on Head of Bolt 780 N•m (575 lbf ft)

Torque wrench on Nut of Bolt 715 N•m (527 lbf ft)

Back Plate to Axle Mount Capscrews (8)
 255 N•m (188 lbf ft)

Wheel Cylinder M8 × 1.25 Capscrews
 18 to 27 N•m (13 to 20 lbf ft)

Ring Gear to Differential Case 7/16 UNF × 1 bolts (12)
 111 N•m (82 lbf ft)

Differential Case Halves 3/8 UNF x 3-1/2 Capscrews (8)
50 N•m (37 lbf ft)

Bearing Cap Capscrews for Differential Bearings (4)
95 to 110 N•m (70 to 81 lbf ft)

Lock Plate Capscrews for Adjusting Nuts (2)
19 N•m (14 lbf ft)

Lock Nut for Thrust Screw
68 to 95 N•m (50 to 70 lbf ft)

Pinion Nut (use shims to set rotating torque with nut tight)
340 N•m (251 lbf ft)

Speed Reducer Housing to Axle (differential) Housing E2.00-3.20XM (E45-65Z and V30ZMD) only
M10 x 1.5 x 30 bolts (6) 38 N•m (28 lbf ft)
M10 x 1.5 x 40 bolts (2) 38 N•m (28 lbf ft)

Traction Motor to Speed Reducer
M10 x 1.5 x 35 bolts (2) 38 N•m (28 lbf ft)
M10 x 1.5 x 70 bolts (6) 38 N•m (28 lbf ft)

STEERING AXLE E2.00-3.20XM (E45-65Z AND V30ZMD)

Mount Brackets M12 x 1.75 x 45 bolts (4)
88 N•m (65 lbf ft)

Steering Cylinder to Axle Capscrews M16 x 2 x 50 (4)
225 N•m (166 lbf ft)

Tie Rod Nuts 3/4 UNF (2)
163 N•m (120 lbf ft)

Capscrews, Lower Spindle Cap M10 x 1 x 25 (6)
44 N•m (32 lbf ft)

Castle Nut, Wheel Hut (2)
Initial 68 N•m (50 lbf ft)
while rotating wheel. Loosen, then
3 N•m (25 lbf in)

MASTS

Capscrews, Hanger Caps
M12 x 1.75 x 100 (4) 90 N•m (66 lbf ft)
Mast to Mount Pivot Pins 130 N•m (96 lbf ft)

Tilt Rod End M12 x 1.75 x 55 (2)
90 N•m (66 lbf ft)

SEAT BRAKE

Lever Arm Pivot at Motor M12 x 1.75 (1)
40 N•m (30 lbf ft)

Brake Drum Mount (to armature shaft) M12 x 1.75 x 50 (1)
66 N•m (49 lbf ft) lubed

HYDRAULIC PUMP AND FITTINGS

Hydraulic Pump Mounting Capscrews 3/8 UNC x 1 1/4
31 N•m (23 lbf ft)

Hydraulic Pump Fitting Capscrews
49 N•m (36 lbf ft)

Adhesives and Sealants

Hyster Part No.	Loctite® Part No.	Description	Size
360387	222	Small Screw Threadlock (Purple)	50 ml (1.7 oz)
318702*	242	Removable Threadlock (Blue)	10 ml (0.34 oz)
226414*	271	High Strength Threadlock (Red)	10 ml (0.34 oz)
318996	277	High Viscosity Threadlock (Red)	50 ml (1.7 oz)
318650	290	Low Viscosity Threadlock (Green)	0.6 ml (0.02 oz)
251099	290	Low Viscosity Threadlock (Green)	50 ml (1.7 oz)
355844*	422	SuperBonder® Adhesive	3 ml (0.1 oz)
350830	515	Gasket Eliminator (Purple)	6 ml (0.2 oz)
313022*	515	Gasket Eliminator (Purple)	50 ml (1.7 oz)
273338*	567	Pipe Sealant with Teflon® (White)	50 ml (1.7 oz)
318705	595	Super Flex® Silicone	100 ml (3.4 oz)
318701	609	Retaining Compound	10 ml (0.34 oz)
341959	680	Retaining Compound	50 ml (1.7 oz)
226415		Primer T - Aerosol	177 ml (6 oz)
316865		Antiseize Compound	476 ml (16 oz)
360053		Chisel Gasket Remover (10 Aerosol cans per case)	536 ml (18 oz)
318700*		Adhesive & Sealant Kit (Contains one each of * items)	

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