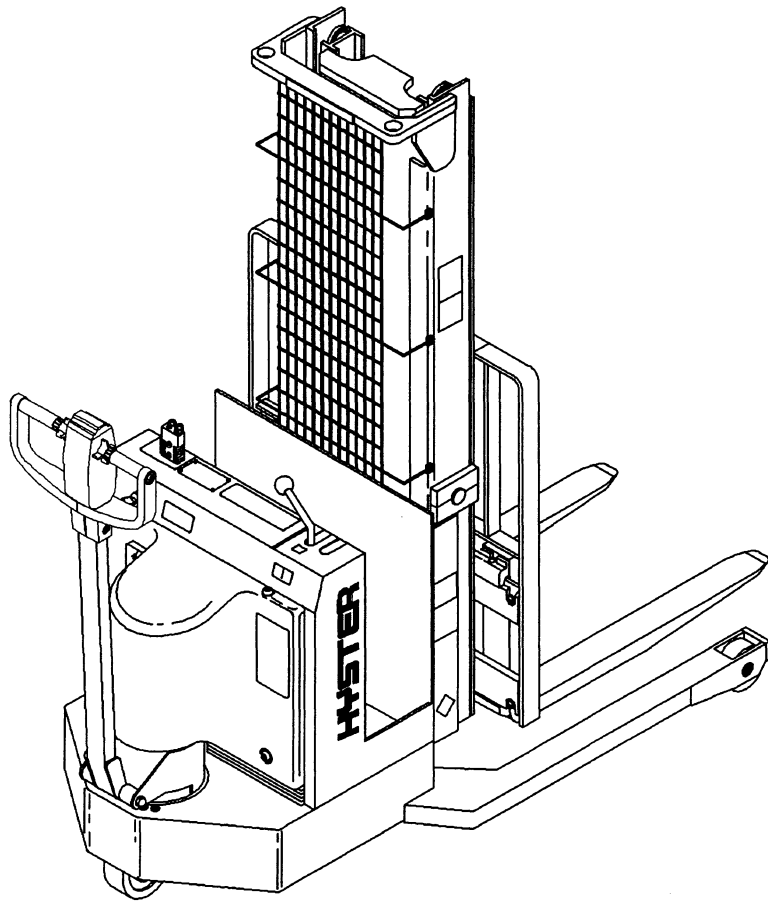


CAPACITIES AND SPECIFICATIONS

W20-40XTA, W20-40XTC, W20-30XTR



HYSTER

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This section is for the following models:
W20XTA, W30XTA, W40XTA
W20XTC, W25XTC, W30XTC, W40XTC
W20XTR, W30XTR

(More Content includes: Brake system, Capacities, and specifications, Frame, Hydraulic, System, Industrial battery, Main control, Valve, Mast repair, Fasteners, Schematics diagrams, Steering axle, Steering system, Wire harness repair And more)

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LIFT TRUCK SPECIFICATIONS				BATTERY SPECIFICATIONS Covered batteries required					
Model	Volt	BATTERY COMPARTMENT		Width (Max) "X" mm (in)	Length (Max) "Y" mm (in)	Height (Max) "Z" mm (in)	WEIGHT		Rating (Max) kwh (amp hr)
		Width mm (in)	Length mm (in)				(Min) kg (lbs)	(Max) kg (lbs)	
W20/30XTA	12	899 (35.4)	206 (8.1)	894 (35.2)	201 (7.9)	–	181 (400)	318 (700)	21.04 (900)
W20/30XTA	24	899 (35.4)	206 (8.1)	894 (35.2)	201 (7.9)	–	272 (600)	499 (1100)	11.88 (510)
W20/30XTA	12	899 (35.4)	343 (13.5)	894 (35.2)	310 (12.2)	–	181 (400)	318 (700)	21.04 (900)
W20/30XTA	24	899 (35.4)	343 (13.5)	894 (35.2)	310 (12.2)	–	272 (600)	499 (1100)	11.88 (510)
W40XTA	24	899 (35.4)	343 (13.5)	894 (35.2)	310 (12.2)	–	272 (600)	499 (1100)	11.88 (510)

TABLE 1 – W20-40XTA BATTERY SPECIFICATIONS

LIFT TRUCK SPECIFICATIONS				BATTERY SPECIFICATIONS Covered batteries required					
Model	Volt	BATTERY COMPARTMENT		Width (Max) "X" mm (in)	Length (Max) "Y" mm (in)	Height (Max) "Z" mm (in)	WEIGHT		Rating (Max) kwh (amp hr)
		Width mm (in)	Length mm (in)				(Min) kg (lbs)	(Max) kg (lbs)	
W20-40XTC	12	809.4 (31.87)	339.8 (13.38)	802 (31.6)	335 (13.2)	–	181 (400)	635 (1400)	21.04 (900)
W20-40XTC	24	809.4 (31.87)	339.8 (13.38)	802 (31.6)	335 (13.2)	–	181 (400)	635 (1400)	11.88 (510)

TABLE 2 – W20-40XTC BATTERY SPECIFICATIONS

LIFT TRUCK SPECIFICATIONS				BATTERY SPECIFICATIONS Covered batteries required					
Model	Volt	BATTERY COMPARTMENT		Width (Max) "X" mm (in)	Length (Max) "Y" mm (in)	Height (Max) "Z" mm (in)	WEIGHT		Rating (Max) kwh (amp hr)
		Width mm (in)	Length mm (in)				(Min) kg (lbs)	(Max) kg (lbs)	
W20XTR	12	899 (35.4)	206 (8.1)	894 (35.2)	201 (7.9)	–	227 (500) ¹ 181 (400) ³	318 (700)	21.04 (900)
W20XTR	12	899 (35.4)	343 (13.5)	894 (35.2)	338 (13.3)	–	272 (600)	499 (1100)	21.04 (900)
W20XTR	24	899 (35.4)	343 (13.5)	894 (35.2)	338 (13.3)	–	272 (600)	499 (1100)	11.88 (510)
W30XTR	12	899 (35.4)	343 (13.5)	894 (35.2)	338 (13.3)	–	363 (800) ¹ 272 (600) ³	499 (1100)	21.04 (900)
W30XTR	24	899 (35.4)	343 (13.5)	894 (35.2)	338 (13.3)	–	363 (800) ¹ 272 (600) ³	499 (1100)	11.88 (510)

NOTE: ¹→2 Stage – No free Lift
NOTE: ³→3 Stage – Full free Lift

TABLE 3 – W20-30XTR BATTERY SPECIFICATIONS

TRUCK MODEL	RELIEF SETTING MPa (psi) ⁴	VOLTS	MAST	LIFT SPEED (feet per minute)		LOWER SPEED (feet per minute)	
				No Load	Rated Load	No Load	Rated Load
W20XTA	13.79 (2000)	12	2 Stage ¹	36	19	68	72
			3 Stage ³	27	17	65	76
		24	2 Stage ¹	49	32	68	72
			3 Stage ³	44	30	65	76
W30XTA	13.79 (2000)	12	2 Stage ¹	32	16	68	74
			3 Stage ³	27	14	65	78
		24	2 Stage ¹	49	28	68	72
			3 Stage ³	44	27	65	78
W40XTA	17.24 (2500)	24	2 Stage ¹	49	24	68	76
			3 Stage ³	44	23	65	78
W20XTC	13.79 (2000)	12	2 Stage ¹	32	19	68	72
			3 Stage ³	27	17	65	76
		24	2 Stage ¹	49	32	68	72
			3 Stage ³	44	30	65	76
W25XTC	13.79 (2000)	12	2 Stage ¹	32	17	68	72
			3 Stage ³	27	16	65	76
		24	2 Stage ¹	49	29	68	72
			3 Stage ³	44	27	65	76
W30XTC	13.79 (2000)	12	2 Stage ¹	32	16	68	72
			3 Stage ³	27	14	65	76
		24	2 Stage ¹	49	28	68	72
			3 Stage ³	44	27	65	76
W40XTC	17.24 (2500)	24	2 Stage ¹	49	24	68	72
			3 Stage ³	44	23	65	76
W20XTR	13.79 (2000)	12	2 Stage ¹	29	19	47	55
			3 Stage ³	25	16	48	52
		24	2 Stage ¹	44	30	47	55
			3 Stage ³	38	26	48	52
W30XTR	13.79 (2000)	14	2 Stage ¹	29	17	47	55
			3 Stage ³	25	12	48	52
		24	2 Stage ¹	44	27	47	55
			3 Stage ³	38	23	48	52

NOTE: ¹→2 Stage – No free Lift
NOTE: ²→± 10 Amps @ 1.270 Battery Specific Gravity
NOTE: ³→3 Stage – Full free Lift
NOTE: ⁴→± 0.69 MPa (± 100 psi) @ 21 °C (70 °F) Oil Temperature

STANDARD SPECIFICATIONS

ALLOWABLE LIFT AND TILT DRIFT WITH RATED LOAD: 25.4 mm (1.0 inch) in 2 minutes @ 21 °C (70 °F) Oil Temperature

HYDRAULIC TANK CAPACITY: W20 40XTA AND W20-30XTR – 13.25 Liters (3.5 gals)
W20 W20-40XTC – 18.95 Liters (5.0 gals)

PUMP DISPLACEMENT (12 volts) -2.11 cm³ / rev (0.129 in³ / rev)
PUMP DISPLACEMENT (24 volts) - 1.59 cm³ / rev (0.097 in³ / rev)

TABLE 4 – LIFT AND HYDRAULIC SYSTEM SPECIFICATIONS

TRUCK MODEL	BATTERY BOX LENGTH mm (in)	FORK SIZE inches	MAST Over All Height / Type	WEIGHT kg (lbs)
W20/40XTA	343 (13.5)	1.5 × 4.0 × 42.0	83 inch / 2 Stage	1089 (2400) ¹
			83 inch / 3 Stage	1225 (2700) ¹
W20/30XTR	206 (8.1)	1.5 × 4.0 × 42.0	83 inch / 2 Stage	1638 (3610) ¹
			83 inch / 3 Stage	1837 (4050) ¹
W20XTC	339.8 (13.38)	1.5 × 4.0 × 36.0	83 inch / 2 Stage	1520 (3350) ¹
			83 inch / 3 Stage	1660 (3660) ¹
W25XTC	339.8 (13.38)	1.5 × 4.0 × 36.0	83 inch / 2 Stage	1742 (3840) ¹
			83 inch / 3 Stage	1882 (4150) ¹
W30XTC	339.8 (13.38)	1.5 × 4.0 × 36.0	83 inch / 2 Stage	1946 (4290) ¹
			83 inch / 3 Stage	2087 (4600) ¹
W40XTC	339.8 (13.38)	1.75 × 4.0 × 36.0	83 inch / 2 Stage	2096 (4620) ¹
			83 inch / 3 Stage	2236 (4930) ¹

NOTE: ¹ Approximate weight, unloaded and with out battery

TABLE 5 – TRUCK WEIGHTS

LIFT TRUCK MODEL	GEAR RATIO	CAPACITY	OIL SPECIFICATION
W20-40XTA, W20-30XTR, W20-40XTC	22.5:1	0.47 litre (0.5 qt)	SAE 80W-90 or Mobilgear 627

TABLE 6 – MASTER DRIVE UNIT SPECIFICATIONS

LIFT TRUCK MODEL	BATTERY COMPARTMENT LENGTH mm (in)	DRIVE TIRE	LOAD WHEEL
W20-40XTA and W20-30XTR	206 mm (8.1 inch)	10 inch × 5 inch rubber	4 inch × 2.75 inch poly
	343 mm (13.5 inch)	10 inch × 5 inch poly	4 inch × 2.75 inch poly
W25XTC	339.8 (13.38)	10 inch × 5 inch rubber	10 inch × 6 inch rubber
W30XTC		10 inch × 5 inch poly	10 inch × 7 inch rubber
W40XTC		10 inch × 5 inch poly	10 inch × 7 inch poly

TABLE 7 – TIRE SPECIFICATIONS

MASTER DRIVE UNIT	
Motor to Housing Capscrews (4 each)	49 N•m (36 lbf ft)
Upper Housing to Lower Housing 1/2-13 Capscrews (3 each)	102-115 N•m (75-85 lbf ft)
Upper Housing to Lower Housing 3/8-16 Capscrews (1 each)	54-61 N•m (40-45 lbf ft)
Drive Axle Shaft Nut	95-122 N•m (70-90 lbf ft)
Drive Wheel Capscrews (5 each)	190-217 N•m (140-160 lbf ft)
Drain Plug	27 N•m (20 lbf ft)
Fill-Level Plug	27 N•m (20 lbf ft)
Bearing Retaining Plate Capscrews (4 each)	49 N•m (36 lbf ft)
Cover Capscrews (4 each)	49 N•m (36 lbf ft)
STEERING	
Steer Arms to Shaft –Button Head Screws (2 each)	31 N•m (23 lbf ft)
Control Assembly to Eyebolt Nut (2 each)	16 N•m (12 lbf ft)
Steer Arms to Steer Tube Capscrews (2 each)	27 N•m (20 lbf ft)
Steer Disc to Tower Weldment Capscrews (3 each)	49 N•m (36 lbf ft)
Tower Weldment to Motor Capscrews (4 each)	49 N•m (36 lbf ft)
Tower Weldment to MDU Housing (2 each)	149-163 N•m (110-120 lbf ft)
Bearing Clamp Capscrews (2 each)	149-163 N•m (110-120 lbf ft)
Steering Bearing Mounting Capscrew (4 each Hex Head)	76 N•m (56 lbf ft)
Steering Bearing Mounting Capscrews (2 each Flat Head)	76 N•m (56 lbf ft)
BRAKE	
Adjusting Spring Locknuts	49 N•m (36 lbf ft)
Drum Retaining Nut	136 N•m (100 lbf ft)
ELECTRICAL	
Traction Motor Power Wire Nuts (4 each)	9 N•m (7 lbf ft)
Traction Motor Pinion Gear Nut	53 N•m (39 lbf ft)

TABLE 8 – TORQUE SPECIFICATIONS

SAFETY PRECAUTIONS

MAINTENANCE AND REPAIR

- When lifting parts or assemblies, make sure that all slings, chains or cables are correctly fastened and that the load being lifted is balanced. Make sure that the crane, cables and chains have the capacity to support the weight of the load.
- Do not lift heavy parts by hand. Use a lifting mechanism.
- Wear safety glasses.
- **DISCONNECT THE BATTERY CONNECTOR** before doing any maintenance or repair on electric lift trucks. Disconnect the battery ground cable on internal combustion lift trucks.
- Always use correct blocks to prevent the unit from rolling or falling. See “How To Put The Lift Truck On Blocks” in the **OPERATING MANUAL** or the **PERIODIC MAINTENANCE** section.
- Keep the unit and working area clean and in order.
- Use the correct tools for the job.
- Keep the tools clean and in good condition.
- Always use **HYSTER APPROVED** parts when making repairs. Replacement parts must meet or exceed the specifications of the original equipment manufacturer.
- Make sure that all nuts, bolts, snap rings and other fastening devices are removed before using force to remove parts.
- Always fasten a **DO NOT OPERATE** sign to the controls of the unit when making repairs or if the unit needs repairs.
- Make sure you follow the **DANGER, WARNING** and **CAUTION** notes in the instructions.
- Gasoline, Liquid Petroleum Gas (LPG), and Diesel are flammable fuels. Make sure that you follow the necessary safety precautions when handling these fuels and when working on these fuel systems.
- Batteries generate flammable gas when they are being charged. Keep fire and sparks away from the area. Make sure the area has ventilation.

