

750D TRAVELIFT® CRANE

SPECIFICATIONS

• INDUSTRIAL APPLICATION •



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CAPACITY.....100,000 LBS (45360KG)

ENGINE

Make and Model.....Detroit Diesel S40-7.6LT
Fuel.....No.2 Diesel
No. of Cylinders.....6
Bore and Stroke.....4.30" x 5.35" (110mm x 136mm)
Displacement......466 in³ (.76L)
Fuel Induction.....Injectors 6
Fuel Supply.....Pos. Displacement Gear-Type Pump
Air Cleaner.....Dry Type
Oil Filter.....Renovable Cartridge
Lubrication.....Positive Pressure
Cooling System.....Pressurized Radiator and Lubricated Bearing Impeller Pump

Horsepower

(1) Gross(SAE).....215 hp@2500 rpm
161kW @ 2500 r/min
(2) Net (SAE).....200hp @ 2500 rpm
156kW @ 2500 r/min
Torque, maximum (SAE).....625 ft. lbs. @ 1600 rpm
847 Nm @ 1600 r/min

- (1) Gross engine horsepower or torque at flywheel per SAE J270 specification.
(2) Net engine horsepower or torque at flywheel per SAE J270 specification.

ELECTRICAL

Voltage.....12 Volt
Alternator.....115 Amps
Batteries (2).....1000CCA @ 0°F (18°C) for 30 sec.

HYDRAULIC SYSTEM

Main Pumps: 2 Piston-type pumps driven off engine flywheel, ccw rotation, each rated at 48 gpm @ 2725 rpm (182 l/min @ 2725 r/min)
Left Pump.....Front hoist, front traverse, left drive
Right Pump.....Rear hoist, rear traverse, right drive
Main Control Valves.....2 three-spool sectional valve
Main Relief Setting.....3,500 psi (24132 kPa)
Relief Valve Settings:
Steering.....2,100psi (14500 kPa)
Supercharge.....250 psi (1725 kPa)
Drive.....2,750 psi (18960 kPa)

TRANSMISSION: Hydrostat on rear wheels. Two hydraulic motors (one at each wheel) drive a gear transmission with a roller chain final drive. Three drive ratios are available: 3.75:1; 3.00:1; and 2.25:1.

STEERING: Full hydrostatic with steering orbitrol. Rear wheel steer.

Pump: Gear-type, 13 gpm (49 l/min)

Cylinders: Two double acting, one at each rear wheel.

BRAKES

Service: Full hydraulic disc-type, mounted at transmission input. Foot operated.

Parking: In conjunction with service brakes. Spring applied, hydraulic release.

TIRES: 18.00 x 25, 28 PR Hard Rock Lug.

TRAVEL SPEED (Forward & Reverse - No Load)

Final Drive Ratio:

2.25:1.....5.5 mph (8.9 km/h)
3.00:1.....4.1 mph (6.6 km/h)
3.75:1.....3.3 mph (5.3 km/h)

TRAVERSE

Hydraulic: One located on each top beam. Each traverse powered by a gear motor through a 60:1 worm gear winch.

Wire Rope.....5/8" (16mm) EIPS IWRC 6x36
Speed.....123 fpm (37.49 m/min)
Slope.....10%

HOIST

Hydraulic: One located on each top beam. Each hoist powered by a piston motor attached to a gear transmission.

Final Drive: Roller Chain.

Hoist Brake: Multiple disc and hydraulic holding valve.

Wire Rope:

Single Trolley - 8 parts per hoist block.....5/8" (16 mm) EIPS IWRC 6x36
Dual Trolley - 4 parts per hoist block.....5/8" (16 mm) EIPS IWRC 6x36
Sheave Pitch Diameter.....15.05' (381 mm)
Hoist Speed - 100,000 lbs (45360 kg) Rated Capacity:
Rated Load.....26 fpm (7.9 m/min)
No Load.....28 fpm (8.5 m/min)

MAXIMUM GRADEABILITY* (PAVED SURFACE)

Gross Unit Weight	Sprocket Ratio		
	2.25:1	3.00:1	3.75:1
63600 lbs (28849 kg)	9.7%	13.0%	13.0%
83600 lbs (37921 kg)	8.9%	9.8%	9.8%
103600 lbs (46993 kg)	5.1%	7.5%	7.5%
123600 lbs (56065 kg)	4.0%	6.0%	6.0%
143600 lbs (65137 kg)	3.1%	4.9%	4.9%
163600 lbs (74209 kg)	2.5%	4.0%	4.0%

Shipping weight plus load determines gross unit weight. For gradeability,* on other surfaces, deduct as follows:

Loose Gravel.....2%
Mud.....1 to 7%
Soft Sand.....2 to 13%

* Gradeability is a measure of tractive effort on yard and does not represent grades on which the machine can operate.

SERVICE CAPACITIES

	U.S.	Liters
Fuel Tank	75gals	284
Hydraulic System(complete)**	35 to 50 gals	132 to 189
Hydraulic Reservoir	38gals	144
Cooling System	32.5qts	30.7
Engine Oil(w/F lter)	15qts	14.2
Pump Drive Transmission	3qts	2.8
Drive Transmission	4qts	3.8
Hoist Transmission	4qts	3.8
Traverse Gearbox	1qt	0.9

**System capacity varies depending on height and width of unit.

STANDARD EQUIPMENT

Enclosed cab-14'4" (4.37 m) eye level • Tinted glass • Windshield wiper
 • Adjustable bucket seat • Operating switches and gauges • Maintenance
 platforms for hoists • Ladders for platforms • Noise suppression • 8 lights
 (4 work, 4 drive) • 4 strobe lights • 4 motion alarms • Detroit Diesel Series
 40 engine • Two wheel drive • Two wheel steer • Alternator • Battery • 12
 volt electrical system • 18.00 x 25.25 PR Industrial tires • Standard black,
 white, and power yellow paint • Single trolley • Final drive ratios: 2.25:1;
 3.00:1, or 3.72:1.

OPTIONAL EQUIPMENT

Dual/split trolley (specify spacing) • Top beam widths • Column heights •
 Side beam lengths • Raised operator cab-19'4" (5.89 m) eye level • High
 speed hoist package • Chain traverse • Cummins 8 CT 8.3 engine •
 Transverse steer.

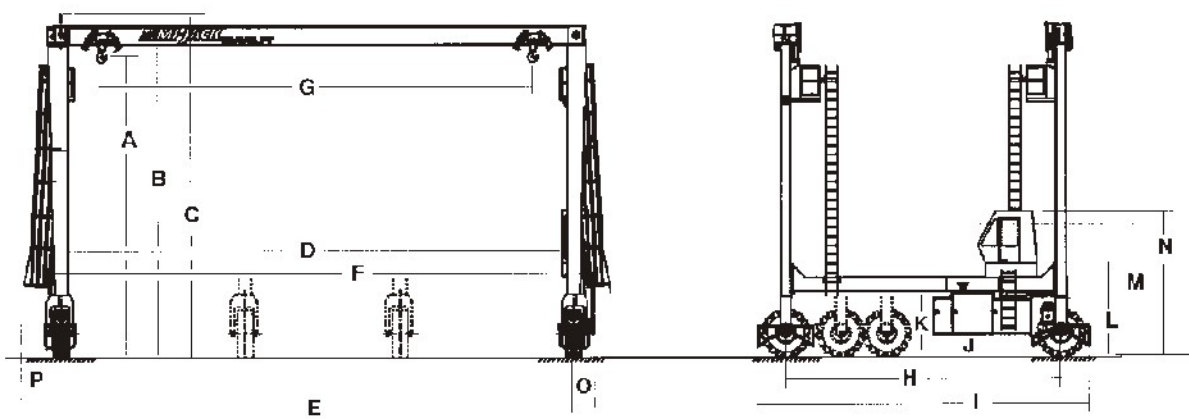
DIMENSIONAL DATA

ACCESSORIES

Heater (standard cab) • Heater (raised cab) • Spare tire and wheel • Cold
 weather start kit • American tool kit (recommended for export) • Air
 conditioner • Filter kit (spares) • Oil cooler (hydraulic system) • Export
 preparation • Light package • Magnet package • Spreader beams • Engine
 block heater • Wheel guards.

APPROXIMATE SHIPPING WEIGHTS: With 19' (5.79 m) W.B.

H.H.	ICW		
	29'5"	34'5"	39'5"
24'10"	66,185 lbs	68,110 lbs	70,035 lbs
7.57 m	30,022 kg	30,895 kg	31,768 kg
28'10"	68,940 lbs	70,865 lbs	72,790 lbs
8.79 m	31,271 kg	32,144 kg	33,018 kg
33'1"	71,930 lbs	73,855 lbs	75,780 lbs
10.08 m	32,627 kg	33,501 kg	34,374 kg



Any combinations of widths, heights and lengths shown are available.

A. Heights to hook saddle	24'10"	(7.57m)
	28'10"	(8.79m)
	33'1"	(10.08m)
B. Heights to bottom of top beam	26'4"	(8.02m)
	30'4"	(9.24m)
	34'7"	(10.54m)
C. Overall heights	29'3"	(8.91m)
	33'3"	(10.13m)
	37'6"	(11.43m)
D. Inside clear widths	29'5"	(8.97m)
	34'5"	(10.49m)
	39'5"	(12.01m)
E. Tread widths	32'0"	(9.75m)
	37'0"	(11.28m)
	42'0"	(12.80m)
F. Overall widths ⁽¹⁾	36'0"	(10.97m)
	41'0"	(12.50m)
	46'0"	(14.02m)
G. Traverse distances - single trolley ⁽²⁾	24'0"	(7.32m)
	29'0"	(8.84m)
	34'0"	(10.36m)
H. Wheelbases & hook centers	19'0"	(5.79m)
	24'0"	(7.32m)
	30'0"	(9.14m)
I. Overall lengths ⁽³⁾	24'4"	(7.42m)
	29'4"	(8.94m)
	35'4"	(10.77m)

J. Ground clearance to engine frame	2'4"	(711mm)
K. Ground clearance to side beam	7'2"	(2.18m)
L. Height to cab floor:		
Standard cab	10'5"	(3.18m)
Raised cab	15'5"	(4.70m)
Raised cab	31'4"	(9.55m)
M. Operator's eye level:		
Standard cab	14'4"	(4.37m)
Raised cab	19'4"	(5.89m)
Raised cab	35'3"	(10.74m)
N. Height to cab roof:		
Standard cab	16'1"	(4.90m)
Raised cab	21'1"	(6.43m)
Raised cab	37'0"	(11.28m)
O. Optional ladder cage	4'0"	(1.22m)
P. Cab ladder ⁽¹⁾	2'4"	(711mm)

(1) For unit with raised cab options add 22" (559 mm) to left side clearance.
 (2) Subtract dual trolley spacing for dual trolley.
 (3) Add 21" (533 mm) for unit with high cab.

NOTE: If unit is equipped with wheel guards, subtract 6" (152 mm) from dimension "D" and add 1" (25 mm) to dimension "I". All heights above ground include 2" tire deflection for an unloaded crane. Up to 3" additional should be deducted for tire deflection at rated load. Inside, outside and height dimensions are nominal and may vary due to manufacturing standards and structural deflection.



NOTE: MI-JACK PRODUCTS reserves the right to change specifications without notice and without incurring any obligation relating to such a change.