

MJ 40 TRAVELIFT[®] CRANE SPECIFICATIONS

•INDUSTRIAL APPLICATION•



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ISO 9001-2000 CERTIFIED

CAPACITY.....80,000 LBS (36,287 KG)

STANDARD EQUIPMENT

Enclosed cab 14' 4" (4.37m) eye level • Tinted glass • Windshield wiper • Adjustable bucket seat • Operating switches and gauges • Noise suppression • 4 Red strobe lights • 4 Motion alarms • Cummins Diesel QSB6.7 engine with grid heater • Rear wheel drive • Rear wheel steer • Vivid yellow paint w/black yokes and wheels • Single trolley • Chain traverse • Programmable Electronic Control System (ECS) • Electronic, stepless, infinitely variable controls for hoist, traverse and drive • 18.00 x 25 Bias Ply tires • Wheel guards • 8 Lights (4 work, 4 drive) • Air intake pre-cleaner

ENGINE

Make and Model.....Tier 3 Cummins Diesel QSB6.7
Fuel.....No. 2 Diesel
No. of Cylinders.....6
Fuel Supply.....Bosch CP3.3 Electronic
Air Cleaner.....Dry Type
Oil Filter.....Renewable Cartridge
Cooling System.....Pressurized Radiator
Horsepower
Gross @ Flywheel.....220 hp @ 2200 rpm
164 kW @ 2200 rpm
Torque, maximum @ Flywheel.....700 lbs. ft. @ 1500 rpm
949 Nm @ 1500 rpm

ELECTRICAL

Voltage.....24 Volt Alternator.....70 Amps
Batteries (2).....1000 CCA @ 0°F (-18°C) for 30 sec.

MAIN HYDRAULICS

Hoist & Traverse Pump.....2 Piston-type load sensing variable displacement
Hoist & Traverse Control.....Four spool sectional valve
Drive Pump.....Piston type over center variable displacement

DRIVE SYSTEM

Hydrostatic on rear wheels. Two piston motors (one at each rear wheel) drive planetary gear transmissions with a roller chain to the drive sprocket at the wheels.
Chain.....ANSI 160

BRAKING SYSTEM

Service.....Automatic hydrostatic braking
Parking.....MultiDisc "SAHR"¹

STEERING

Electrically controlled hydraulic power rear wheel steer with two double acting cylinders.

TRAVERSE SYSTEM

Direct Chain Drive, one located on each top beam. Each traverse is individually controlled and is driven by a hydraulic motor.
Motor.....Radial Piston
Brake.....MultiDisc "SAHR"¹
Chain.....ANSI 100

HOIST SYSTEM

Hoist drums are directly coupled to a planetary gearbox, one located on each top beam. Each individually controlled. Each hoist is driven by a fixed displacement piston motor integrated with a direct mounted counterbalance valve.

Motor.....Axial Piston
Brake.....MultiDisc "SAHR"¹
Wire Rope.....5/8" EIPS, IWRC 6x37 Class
Reeving.....8 parts per top beam
Sheave Pitch Diameter.....15.00" (381mm)

PERFORMANCE

Traverse Speed (Rated Capacity)
Speed.....123 fpm (37.5 m/min)
Slope.....6.6%

Hoist Speed
Rated Capacity.....33.0 fpm (10.1 m/min)
Empty.....34.0 fpm (10.4 m/min)

Final Drive Ratio	Level Drive Speed	Gradeability	
	at Rated Capacity	at Rated Capacity	
	Speed	Paved	Gravel
2.86:1.....	4.0 mph (6.2 km/h).....	7.0%.....	5.3%.....
2.22:1...(smooth runway).....	5.0 mph (8.0 km/h).....	5.0%.....	3.3%.....

SERVICE CAPACITIES

	U.S.	METRIC
Fuel Tank.....	100 gals	378L
Hydraulic System ²	75 to 100 gals	284 to 378L
Hydraulic Reservoir.....	51 gals	193L
Cooling System.....	33 qts	31L
Engine Oil (w/Filter).....	17 qts	16L
Pump Drive Transmission.....	4 qts	3.8L

OPTIONAL EQUIPMENT

Dual/split trolley (specify spacing) • Top beam widths • Column heights • Side beam lengths • Inward facing cab • Raised operator cab • Ladder safety device(s) • Transverse steer • Cab heater • Engine block heater • Remote control • Open operator station under side beam • Drive camera/monitor kit • Auxiliary hoist • Maintenance ladders and platforms for hoists • Air conditioner • AC light package • Power on Demand

ACCESSORIES

• Spare tire and wheel • American tool kit (recommended for export) • Filter kits (Hydraulic/engine kits available) • Export preparation • Magnet package³ • Spreader beams • Spare parts kit

1-"SAHR" spring applied hydraulic release; Automatic Actuation; No mechanical adjustment

2-System capacity varies depending on height and width of unit.

3-Consult factory when adding magnet package.

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

MJ40 TRAVELIFT® CRANE

ESTIMATED SHIPPING WEIGHTS:

		I.C.W.			19' 0"	WB
		29' 5"	34' 5"	39' 5"		
HK HT	24' 8"	65,626 lbs 29,768 kg	67,405 lbs 30,575 kg	69,188 lbs 31,384 kg		
	28' 8"	67,913 lbs 30,805 kg	69,693 lbs 31,613 kg	71,476 lbs 32,422 kg		
	32' 10"	70,301 lbs 31,889 kg	72,081 lbs 32,696 kg	73,864 lbs 33,505 kg		

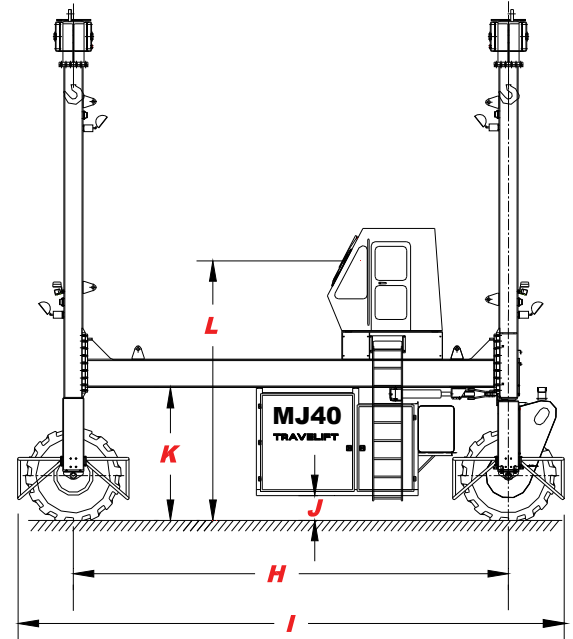
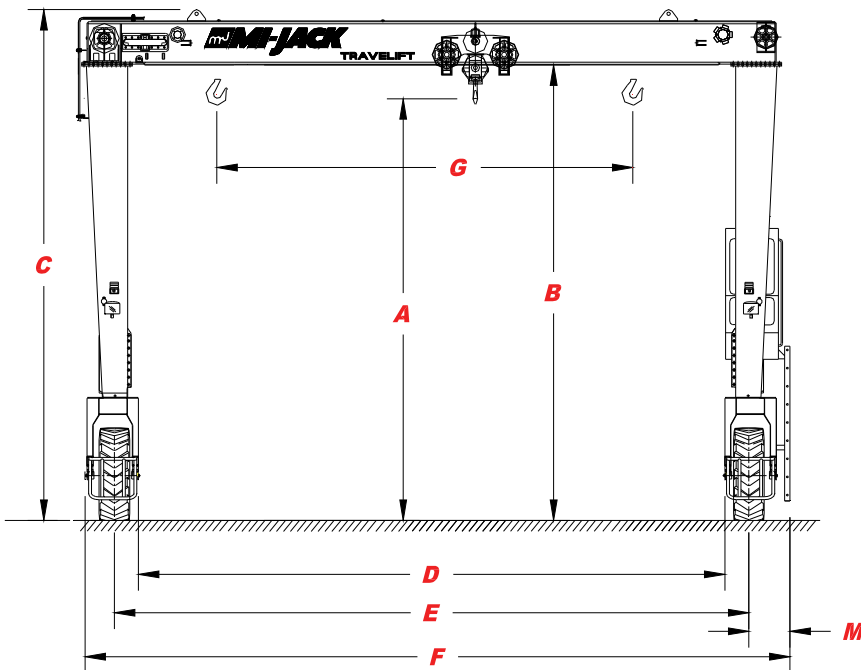
1.) Add 1,100 lbs for 24' WB

2.) Add 2,400 lbs for 30' WB

GROUND BEARING PRESSURE:

		I.C.W.			19' 0"	WB
		29' 5"	34' 5"	39' 5"		
HK HT	24' 8" MINSPAN	115 psi 793 kPa	116 psi 800 kPa	117 psi 807 kPa		
	28' 8" MINSPAN	115 psi 793 kPa	116 psi 800 kPa	117 psi 807 kPa		
	32' 10" MINSPAN	116 psi 800 kPa	117 psi 807 kPa	117 psi 807 kPa		

DIMENSIONAL DATA



Any combination of widths, heights, and lengths shown are available except as noted in charts. Dimensional variations may occur based upon optional equipment characteristics. All crane dimensions are capable of full capacity. Consult factory for optional dimension and ratings.

A HEIGHT TO HK. THROAT ⁽¹⁾	B HEIGHT TO BTTM OF TP BM	C OVERALL HEIGHT	D I.C.W. ⁽²⁾	E TREAD WIDTH	F OVERALL WIDTH AT GROUND ⁽³⁾⁽⁴⁾	G TROLLEY TRAVEL ⁽⁵⁾
24'- 8" (7.52 m)	26'- 7" (8.10 m)	29'- 7" (9.02 m)	29'- 5" (8.97 m)	32'- 0" (9.75 m)	36'- 0" (10.97 m)	22'- 9" (6.93 m)
28'- 8" (8.74 m)	30'- 7" (9.32 m)	33'- 7" (10.24 m)	34'- 5" (10.49 m)	37'- 0" (11.27 m)	41'- 0" (12.50 m)	27'- 9" (8.46 m)
32'-10" (10.01 m)	34'- 9" (10.59 m)	37'- 9" (11.51 m)	39'- 5" (12.01 m)	42'- 0" (12.80 m)	46'- 0" (14.02 m)	32'- 9" (9.98 m)
			49'- 5" (15.06 m)	52'- 0" (15.85 m)	56'- 0" (17.07 m)	42'- 9" (13.03 m)
			59'- 5" (18.11 m)	62'- 0" (18.90 m)	66'- 0" (20.12 m)	52'- 9" (16.08 m)

H WHEELBASE & HK. CENTERS	I OVERALL LENGTH ⁽⁶⁾	J GROUND TO ENG. FRAME	K GROUND TO SIDE BEAM	L OPERATOR EYE LEVEL	M TREAD CENTER TO LADDER ⁽⁷⁾
19'- 0" (5.79 m)	25'- 2" (7.67 m)	1'- 4" (0.41 m)	7'- 4" (2.24 m)	Inward facing cab 14'- 4" (4.37 m)	2'- 4" (0.71 m)
24'- 0" (7.32 m)	30'- 2" (9.19 m)			Std. forward cab 14'- 4" (4.37 m)	
30'- 0" (9.14 m)	36'- 2" (11.02 m)			High Inward facing cab 17'- 3" (5.26 m)	
				High forward cab 19'- 7" (5.97 m)	
				High forward cab 35'- 3" (10.74 m)	

(1) Add 6" (0.15 m) for dual trolley option.

(2) Measured from face of yoke.
Subtract 2" (0.05 m) for hardware

(3) For unit with raised cab options add 22" (0.56 m)
to left side clearance.

(4) Add 11" (0.28 m) for overall width at top.

(5) Single trolley dimensions shown.

For dual trolley, subtract (trolley spacing -2" (0.05m))

(6) Add 21" (0.53 m) for unit with high forward facing cab.

(7) Std. Forward facing cab dimension shown. Add 4" (0.10 m) for
inward facing cab.

NOTE: 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.

10/11/07

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