

# MJ 150 TRAVELIFT<sup>®</sup> CRANE SPECIFICATIONS

## •INDUSTRIAL APPLICATION•



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**ISO 9001-2000 CERTIFIED**

**CAPACITY**.....300,000 LBS (136078KG)

### STANDARD EQUIPMENT

Enclosed cab 17' 10" (5.44m) 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 • (2) dual wheel 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 • 21.00 x 35 Bias Ply tires • Wheel guards • Air intake pre-cleaner • 8 Lights (4 work, 4 drive)

### 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.....260 hp @ 2200 rpm  
194 kW @ 2200 rpm  
Torque, maximum @ Flywheel.....728 lbs. ft. @ 1500 rpm  
987 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 over center variable displacement  
Hoist & Traverse Control.....Four spool proportional valve  
Drive Pump.....Piston type over center variable displacement

### DRIVE SYSTEM

Hydrostatic on rear wheels. Four piston motors (one at each rear wheel) drive planetary gear transmissions with a roller chain to the drive sprocket at the wheels.  
Chain.....ANSI 180

### BRAKING SYSTEM

Service.....Automatic hydrostatic braking  
Parking.....MultiDisc "SAHR"<sup>1</sup>

### 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"<sup>1</sup>  
Chain.....ANSI 120

### 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"<sup>1</sup>  
Wire Rope.....3/4" DYFORM<sup>®</sup> 8  
Reeving.....16 parts per top beam  
Sheave Pitch Diameter.....19.38" (492 mm)

### PERFORMANCE

Traverse Speed (Rated Capacity)  
Speed.....60 fpm (18.3 m/min)  
Slope.....4.0%

### 2 Speed Hoist

Rated Capacity.....10.5 fpm (3.2 m/min)  
Empty to 50% of Capacity.....21.0 fpm (6.4 m/min)

Final Drive Ratio	Level Drive Speed at Rated Capacity		Gradeability at Rated Capacity	
	Speed		Paved	Gravel
2 Speed Drive				
3.5:1 Empty	3.2 mph (5.1 km/h)		5.2%	3.3%
Laden	1.9 mph (3.1 km/h)		5.2%	3.3%

### SERVICE CAPACITIES

	U.S.	METRIC
Fuel Tank	100 gals	379L
Hydraulic System <sup>2</sup>	75 to 100 gals	284 to 379L
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 • 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 package<sup>3</sup> • 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.

# MJ150 TRAVELIFT® CRANE

## ESTIMATED SHIPPING WEIGHTS:

		ICW			24' 0"	WB
		40' 0"	50' 0"	60' 0"		
HK HT	25' 0"	231,215 lbs 104,877 kg	237,490 lbs 107,724 kg	243,765 lbs 110,570 kg		
	30' 0"	234,930 lbs 106,563 kg	241,205 lbs 109,409 kg	247,480 lbs 112,255 kg		
	40' 0"	242,360 lbs 109,933 kg	248,365 lbs 112,657 kg	254,910 lbs 115,625 kg		

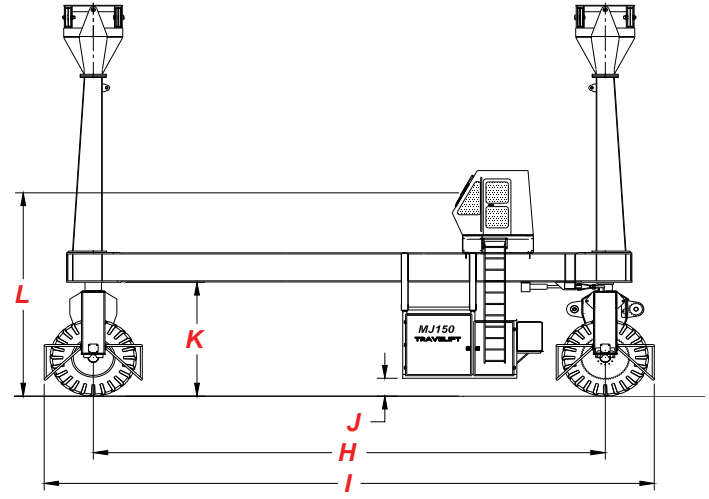
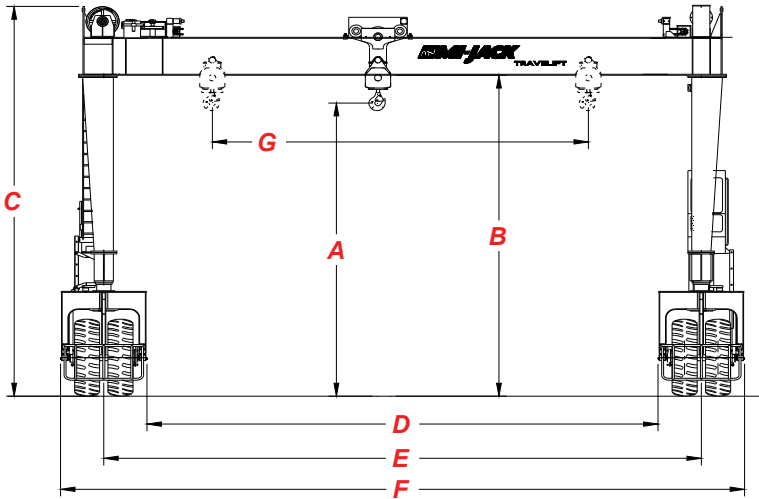
1.) Add 5,630 lbs for 30' WB

2.) Add 15,000 lbs for 40' WB

## GROUND BEARING PRESSURE:

		ICW			24' 0"	WB
		40' 0"	50' 0"	60' 0"		
HK HT	25' 0"	142 psi 979 kPa	145 psi 1000 kPa	146 psi 1007 kPa		
	30' 0"	143 psi 986 kPa	145 psi 1000 kPa	147 psi 1014 kPa		
	40' 0"	144 psi 993 kPa	146 psi 1007 kPa	147 psi 1014 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 <sup>(1)</sup>	B HEIGHT TO BTTM OF TP BM	C OVERALL HEIGHT	D I.C.W. <sup>(2)</sup>	E TREAD WIDTH	F OVERALL WIDTH AT GROUND <sup>(3)(4)</sup>	G TROLLEY TRAVEL <sup>(5)</sup>
25'- 0" ( 7.62 m)	28'- 2" ( 8.59 m)	34'- 4" (10.47 m)	40'- 0" (12.19 m)	46'- 8" (14.22 m)	53'- 5" (16.28 m)	34'- 6" ( 10.52 m)
30'- 0" ( 9.14 m)	33'- 2" (10.11 m)	39'- 4" (11.99 m)	50'- 0" (15.24 m)	56'- 8" (17.27 m)	63'- 5" (19.33 m)	44'- 6" (13.56 m)
†40'- 0" (12.19 m)	43'- 2" (13.16 m)	49'- 4" (15.04 m)	60'- 0" (18.29 m)	66'- 8" (20.32 m)	73'- 5" (22.38 m)	54'- 6" (16.61 m)

H WHEELBASE & HK. CENTERS	I OVERALL LENGTH	J GROUND TO ENG. FRAME	K GROUND TO SIDE BEAM	L OPERATOR EYE LEVEL
24'- 0" ( 7.32 m)	31'- 8" ( 9.65 m)	1'-6" ( 0.46 m)	9'- 8" ( 2.95 m)	Inward facing cab 17'- 10" ( 5.44 m)
30'- 0" ( 9.14 m)	37'- 8" (11.48 m)			Std. forward cab 17'-10" ( 5.44 m)
40'- 0" (12.19 m)	47'- 8" (14.53 m)			High Inward facing cab 25'- 0" ( 7.62 m)

(1) Add 5" (0.13 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 15" (0.38 m) to left side clearance.

(4) Subtract 29" (0.74 m) for overall width at top.

(5) Single trolley dimensions shown,

For dual trolley, subtract (dual trolley spacing)

† Tie bar options

**NOTE:** All heights above ground include 4" 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. 10/23/07

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