

MJ70HD TRAVELIFT® CRANE SPECIFICATIONS •INDUSTRIAL APPLICATION•



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ISO 9001:2008 CERTIFIED

CAPACITY.....140,000 LBS (63,504 KG)

STANDARD EQUIPMENT

Enclosed Inward facing cab 16' 3" (4.95m) eye level • Tinted glass
• Windshield wiper • Adjustable, heated bucket seat • 7" touch
screen Human Machine Interface (HMI) • Electronic, stepless,
infinitely variable multi-axis joystick controls • Noise suppression
• 4 Red strobe lights • 4 Motion alarms • Cummins diesel engine
with grid heater • Direct Flow air intake primary and secondary
filters • Localized diagnostic power unit interface • Rear wheel
drive • Rear wheel steer • Vivid yellow paint w/black yokes and
wheels • Single trolley • Chain traverse • Programmable
Electronic Control System (ECS) • 29.50 x 25 Bias Ply tires
• Wheel guards • 8 LED lights (4 work, 4 drive)

ENGINE

Make and Model.....Tier 4F Cummins Diesel QSB6.7
Fuel.....No. 2 Ultra Low Sulfur Diesel (ULSD)
No. of Cylinders.....6
Fuel Supply.....High Pressure Common Rail
Air Cleaner.....Direct Flow
Oil Filter.....Renewable Cartridge
Cooling System.....Pressurized Radiator
Horsepower, gross @ Flywheel.....225 hp @ 2200 rpm
168 kW @ 2200 rpm
Torque, maximum @ Flywheel.....700 lbs. ft. @ 1500 rpm
949 Nm @ 1500 rpm

ELECTRICAL

Voltage.....24 Volt Alternator.....95 Amps
Batteries (2).....1000 CCA @ 0°F (-18°C) for 30 sec.

MAIN HYDRAULICS

Hoist & Drive Pump.....Closed Loop Over-center Piston Type
Traverse Pump.....Open Loop Load Sense Piston Type
Control Valves.....Fully Proportional Directional Control Valves

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 180

BRAKING SYSTEM

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

STEERING

Dual worm gear driven, electrically controlled, hydraulically
powered slew drives.

TRAVERSE SYSTEM

Direct Chain Drive, one located on each top beam. Each traverse
is individually controlled and is driven by a hydraulic motor.
Motor.....Bent-Axis 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 is individually controlled and
driven by a fixed displacement piston motor integrated with a direct
mounted counterbalance valve.

Motor.....Bent-Axis Piston
Brake.....MultiDisc "SAHR"¹
Wire Rope.....5/8" DYFORM® 6
Reeving.....8 parts per top beam
Maximum load eccentricity ratio.....50%/50%

PERFORMANCE

Traverse Speed (Rated Capacity)
Speed.....up to 100 fpm (30.5 m/min)
Slope.....4.3%

Hoist Speed
Rated Capacity and Empty.....22.0 fpm (6.7 m/min)

Level Drive Speed at Rated Capacity Speed	Max. Gradeability ² at Rated Capacity Paved Gravel
3.0 mph (5.0 km/h)	5.2% 3.3%

SERVICE CAPACITIES

	U.S.	METRIC
Fuel Tank.....	100 gals	378L
Hydraulic System ³	75 to 100 gals	284 to 378L
Hydraulic Reservoir.....	100 gals	378L
Cooling System.....	32 qts	30L
Engine Oil (w/Filter).....	17 qts	16L
Pump Drive Transmission.....	2.5 qts	2.4L

OPTIONAL EQUIPMENT

Dual/split trolley (specify spacing) • Top beam lengths • Column
heights • Side beam lengths • Raised operator cab • Ladder
safety device(s) • Cab heater and defroster • Engine block heater
• Remote control • Drive camera/monitor kit • 2 speed hoist and
drive • Auxiliary hoist • Maintenance ladders and platforms • Air
conditioner • AC light package • Power on Demand® • Scale
package • Lead wheel steer • All wheel drive • Up and Down hoist
limits • E-stops on wheel yokes • Windshield washer fluid • Cab
seat height and consol width spacer adjustments • Cold weather
package • Anti-sway • Trolley and Hoist Speed and Position
Synchronization • AccuSteer® • Work area cameras and monitors
• Lockable power unit doors • Tier 3 engine (export only) • PA
system • Anemometer • Auxiliary power outlet in cab • Below
grade capability • White noise travel alarms

ACCESSORIES

Spare tire and wheel • American tool kit (recommended for export)
• Filter kits (Hydraulic/engine kits available) • Export preparation
• Magnet package⁴ • Spreader beams • Spare parts kit

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

2-Gradeability is dependent on machine size. Consult with Engineering for increased gradeability options

3-System capacity varies depending on height and width of unit

4-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.

MJ70HD TRAVELIFT® CRANE

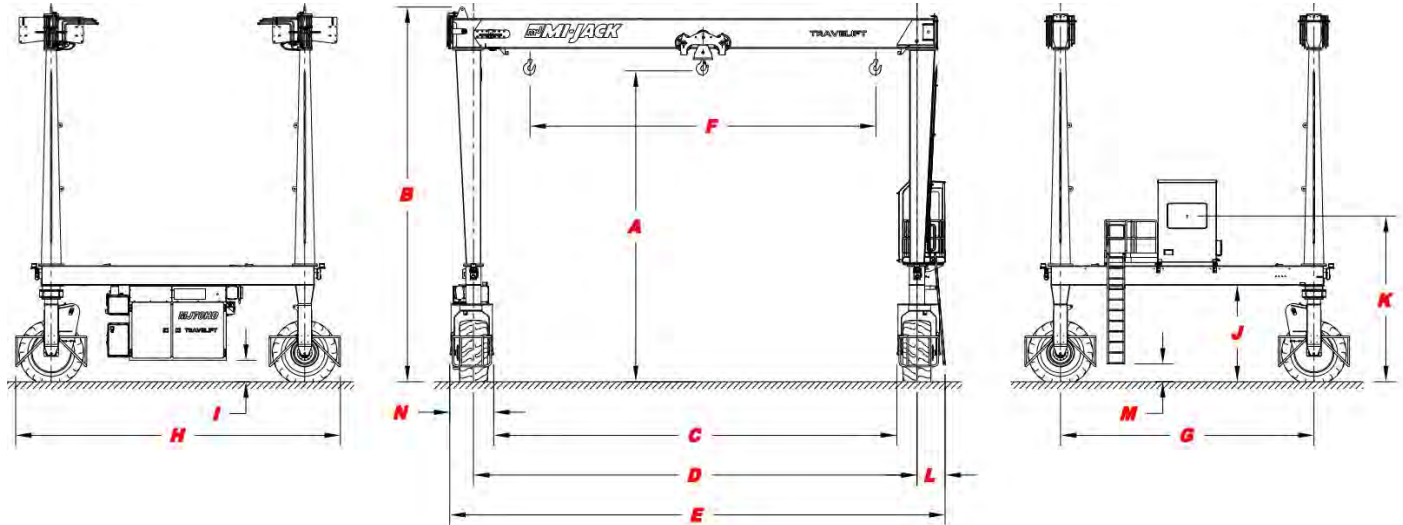
ESTIMATED SHIPPING WEIGHTS:

		I.C.W.					24' 0"	WB
		18' 5"	28' 5"	38' 5"	48' 5"	58' 5"		
HK HT	25' 5"	83,434 lbs 37,845 kg	88,127 lbs 39,974 kg	92,820 lbs 42,102 kg	100,565 lbs 45,616 kg	109,401 lbs 49,623 kg		
	29' 5"	86,231 lbs 39,114 kg	90,924 lbs 41,242 kg	95,617 lbs 43,371 kg	103,362 lbs 46,884 kg	112,198 lbs 50,892 kg		
	33' 7"	89,144 lbs 40,435 kg	93,837 lbs 42,564 kg	98,530 lbs 44,692 kg	106,275 lbs 48,206 kg	115,111 lbs 52,213 kg		
	39' 7"	93,982 lbs 42,630 kg	98,675 lbs 44,758 kg	103,368 lbs 46,887 kg	111,113 lbs 50,400 kg	119,948 lbs 54,408 kg		

1.) Add 1,600 lbs for 30' WB

2.) Add 4,200 lbs for 40' WB

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 OVERALL HEIGHT	C I.C.W. ⁽²⁾	D TREAD WIDTH	E OVERALL WIDTH AT GROUND ⁽³⁾	F TROLLEY TRAVEL ⁽⁴⁾	G WHEELBASE & HK. CENTERS
25'- 5" (7.75 m)	31'- 5" (9.58 m)	18'- 5" (5.61 m)	22'- 0" (6.71 m)	27'- 2" (8.28 m)	12'-11" (3.94 m)	24'- 0" (7.32 m)
29'- 5" (8.97 m)	35'- 5" (10.80 m)	28'- 5" (8.66 m)	32'- 0" (9.75 m)	37'- 2" (11.33 m)	22'-11" (6.99 m)	30'- 0" (9.14 m)
33'- 7" (10.24 m)	39'- 7" (12.07 m)	38'- 5" (11.71 m)	42'- 0" (12.80 m)	47'- 2" (14.38 m)	32'-11" (10.03 m)	40'- 0" (12.19 m)
†39'- 7" (12.07 m)	45'- 7" (13.89 m)	48'- 5" (14.76 m)	52'- 0" (15.85 m)	57'- 2" (17.42 m)	42'-11" (13.08 m)	
		58'- 5" (17.80 m)	62'- 0" (18.90 m)	67'- 2" (20.47 m)	52'- 11" (16.13 m)	

H OVERALL LENGTH	I GROUND CLEARANCE	J GROUND TO SIDE BEAM	K OPERATOR EYE LEVEL	L TREAD CENTER TO LADDER	M HEIGHT TO LADDER	N YOKE WIDTH ⁽²⁾
30'-11" (9.42 m)	2' (0.61 m)	9'- 1" (2.77 m)	Inward facing cab 16'- 3" (4.95 m)	2'- 8" (0.81 m)	1'- 8" (0.51 m)	3'- 11" (1.19 m)
36'-11" (11.25 m)			High Inward facing cab 18'- 2" (5.54 m)			
46'-11" (14.30 m)						

(1) Add 7" (0.18 m) for dual trolley option

(2) Measured from face of yoke.

Subtract 3" (0.08 m) for hardware

(3) For unit with standard cab height

(4) Single trolley dimensions shown,

For dual trolley subtract (trolley spacing - 1" (0.03 m))

† 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.

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