

MJ30HD TRAVELIFT® CRANE SPECIFICATIONS •INDUSTRIAL APPLICATION•



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ISO 9001:2008 CERTIFIED

CAPACITY.....60,000 LBS (27,216 KG)

STANDARD EQUIPMENT

Enclosed Inward facing cab 14' 8" (4.47m) 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 • Air intake pre-cleaner • 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)
• 16.00 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.....160 hp @ 2200 rpm
119 kW @ 2200 rpm
Torque, maximum @ Flywheel.....460 lbs. ft. @ 1500 rpm
624 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 140

BRAKING SYSTEM

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

STEERING

Dual worm gear driven, electrically controlled, hydraulically power
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 80

HOIST SYSTEM

Hoist drums are directly coupled to a planetary gearbox, one
located on each top beam. Each hoist 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.....3/8 Dyform® 8, Class 8x19
Reeving.....8 parts per top beam
Maximum load eccentricity ratio.....60%/40%

PERFORMANCE

Traverse Speed (Rated Capacity)
Speed.....up to 100 fpm (30.5 m/min)
Slope.....7.8%

Hoist Speed
Rated Capacity.....25.0 fpm (7.6 m/min)

Level Drive Speed at Rated Capacity Speed	Max. Gradeability ² at Rated Capacity Paved Gravel
.....4.0 mph (6.4 km/h).....6.0%.....4.1%.....

SERVICE CAPACITIES

	U.S.	METRIC
Fuel Tank.....	50 gals	189L
Hydraulic System ³	50 to 75 gals	189 to 284L
Hydraulic Reservoir.....	40 gals	151L
Cooling System.....	26 qts	25L
Engine Oil (w/Filter).....	12 qts	11L
Pump Drive Transmission.....	4 qts	3.8L

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 • 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
console 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 • White noise
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.

MJ30HD TRAVELIFT® CRANE

ESTIMATED SHIPPING WEIGHTS:

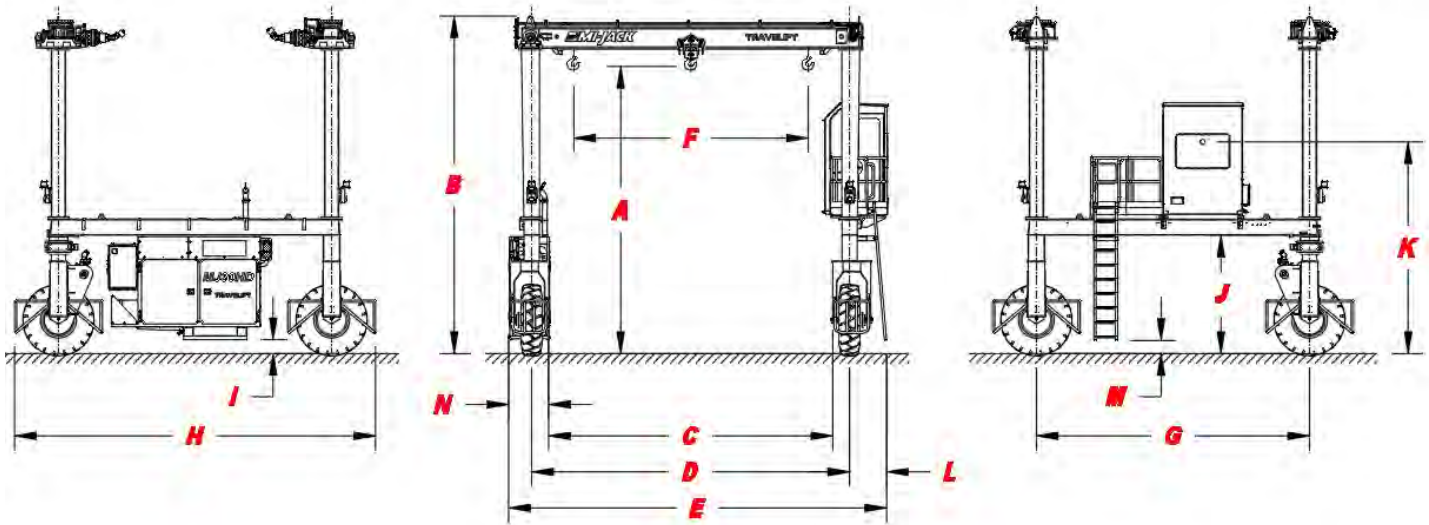
		I.C.W.			19' 0"	WB
		14' 9"	29' 9"	39' 9"		
HK HT	14' 11"	40,607 lbs 18,419 kg	44,713 lbs 20,281 kg	49,324 lbs 22,373 kg	19' 0"	WB
	24' 11"	43,707 lbs 19,825 kg	47,815 lbs 21,689 kg	52,425 lbs 23,780 kg		
	29' 11"	45,258 lbs 20,529 kg	49,365 lbs 22,392 kg	53,976 lbs 24,483 kg		

GROUND BEARING PRESSURE:

		I.C.W.			19' 0"	WB
		14' 9"	29' 9"	39' 9"		
HK HT	14' 11"	109 psi 752 kPa	111 psi 765 kPa	113 psi 779 kPa	19' 0"	WB
	24' 11"	109 psi 752 kPa	112 psi 772 kPa	113 psi 779 kPa		
	29' 11"	110 psi 758 kPa	112 psi 772 kPa	113 psi 779 kPa		

1.) Add 950 lbs for 24' 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	F TROLLEY TRAVEL ⁽³⁾	G WHEELBASE & HK. CENTERS
10'-11" (3.32 m)	†14'-4" (4.37 m)	7'-9" (2.36 m)	10'-1" (3.07 m)	14'-3" (4.34 m)	4'-6" (1.37 m)	19'-0" (5.79 m) 24'-0" (7.32 m)
14'-11" (4.55 m)	18'-4" (5.59 m)	9'-9" (2.97 m)	12'-1" (3.68 m)	16'-3" (4.95 m)	6'-6" (1.98 m)	
†19'-11" (6.07 m)	23'-4" (7.11 m)	14'-9" (4.50 m)	17'-1" (5.21 m)	21'-3" (6.48 m)	11'-6" (3.51 m)	
†24'-11" (7.59 m)	28'-4" (8.64 m)	19'-9" (6.02 m)	22'-1" (6.73 m)	26'-3" (8.00 m)	16'-6" (5.03 m)	
†29'-11" (9.12 m)	33'-4" (10.16 m)	29'-9" (9.07 m)	32'-1" (9.78 m)	36'-3" (11.05 m)	26'-6" (8.08 m)	
		39'-9" (12.12 m)	42'-1" (12.83 m)	46'-3" (14.10 m)	36'-6" (11.13 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⁾
21'-0" (6.40 m) 25'-0" (7.62 m) 30'-0" (9.14 m)	0'-11" (0.28 m)	8'-2" (2.50 m)	Inward facing cab 14'-8" (4.47 m)	2'-7" (0.79 m)	0'-11" (0.28 m)	2'-8" (0.81 m)

(1) Single and dual trolley dimensions shown.

(2) Measured from face of yoke.

Subtract 3" (0.08 m) for hardware

(3) Single trolley dimensions shown,

For dual trolley, subtract (trolley spacing + 13" (0.33 m))

†Height will increase with enclosed cab.

Steering limitations apply to machines of the following combinations:

7'-9" or 9'-9" ICW with 19' or 24' wheel bases, 14'-9" ICW with 24' wheel base

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.

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