

MJ300HD TRAVELIFT[®] CRANE SPECIFICATIONS •INDUSTRIAL APPLICATION•



3111 West 167th Street, Hazel Crest, Illinois 60429
Phone (708) 596-5200 • Fax (708) 225-2312
www.mi-jack.com
ISO 9001:2008 CERTIFIED

CAPACITY.....600,000 LBS (272,156 KG)

STANDARD EQUIPMENT

Enclosed Inward facing cab 22' 6" (6.86 m) 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 • (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) • (8) 30.00 x 51 Bias Ply tires • Wheel guards • 8 LED lights (4 work, 4 drive) • Spare parts kit

ENGINE

Make and Model.....Stage V Cummins Diesel B6.7
Fuel.....No. 2 Ultra Low Sulfur Diesel (ULSD)
No. of Cylinders.....6
Fuel Supply.....High Pressure Common Rail
Air Cleaner.....Cummins Direct Flow
Oil Filter.....Renewable Cartridge
Cooling System.....Pressurized Radiator
Horsepower
Gross @ Flywheel.....326 hp @ 2200 rpm
243 kW @ 2200 rpm
Torque, maximum @ Flywheel.....1014 lbs. ft. @ 1500 rpm
1375 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. 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 240

BRAKING SYSTEM

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

STEERING

Planetary gearboxes are driven by electronically 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 180

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.....1" COMPACT
Reeving.....16 parts per top beam
Sheave Pitch Diameter.....19.50" (495 mm)
Maximum load eccentricity ratio.....50% / 50%

PERFORMANCE

Traverse Speed (Rated Capacity)
Speed.....50 fpm (15.3 m/min)
Slope.....3.0%

2 Speed Hoist
Rated Capacity.....7.5 fpm (2.3 m/min)
Empty to 50% of Capacity.....15.0 fpm (4.6 m/min)

Final Drive Ratio	Speed	Level Drive Speed at Rated Capacity	
		Max. Gradeability ² at Rated Capacity	Paved Gravel
2 Speed Drive			
Empty.....	2.25 mph (3.63 km/h).....	4.3%.....	2.4%
Laden.....	1.25 mph (2.02 km/h).....	4.3%.....	2.4%

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.....	33 qts	31L
Engine Oil (w/Filter).....	17 qts	16L
Pump Drive Transmission.....	4 qts	3.8L

OPTIONAL EQUIPMENT

Dual Hooks (specify spacing) • Top beam widths • 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 • Maintenance ladders and platforms for hoists • 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 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.

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.

MJ300HD TRAVELIFT® CRANE

300HD ESTIMATED SHIPPING WEIGHTS:

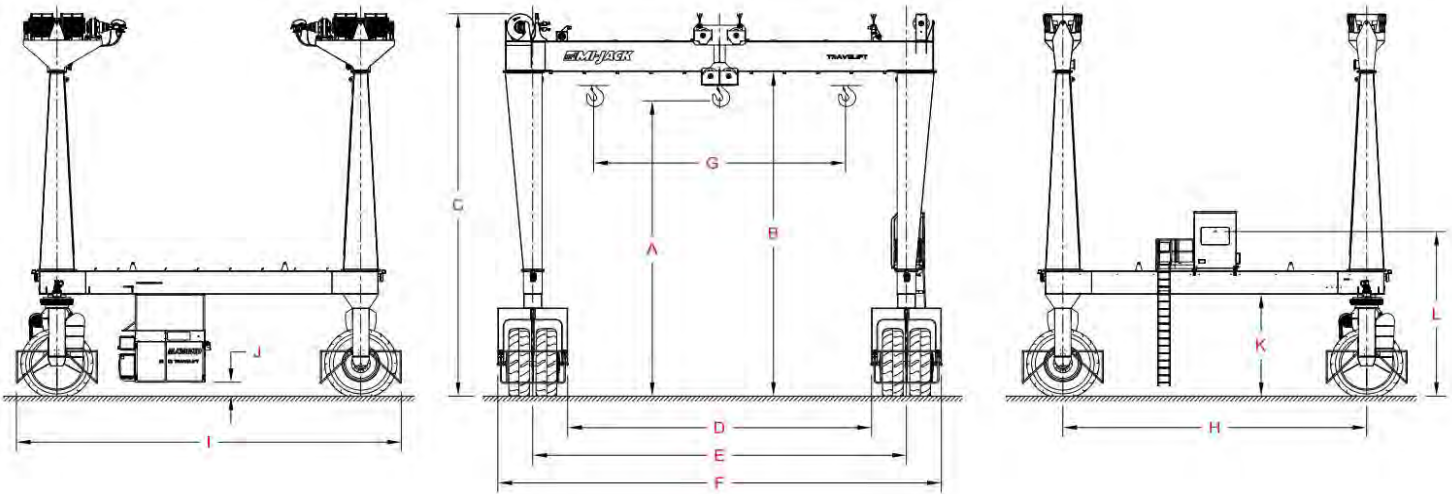
		ICW			30' 0"	WB
		40' 0"	50' 0"	60' 0"		
HK HT	25' 0"	340,396 lbs 154,401 kg	350,072 lbs 158,790 kg	367,292 lbs 166,601 kg	30' 0"	WB
	30' 0"	348,927 lbs 158,270 kg	358,603 lbs 162,659 kg	375,823 lbs 170,470 kg		
	40' 0"	367,496 lbs 166,693 kg	377,172 lbs 171,082 kg	394,392 lbs 178,893 kg		

300HD GROUND BEARING PRESSURE

		ICW			30' 0"	WB
		40' 0"	50' 0"	60' 0"		
HK HT	25' 0"	126 psi 869 kPa	125 psi 862 kPa	124 psi 855 kPa	30' 0"	WB
	30' 0"	126 psi 869 kPa	125 psi 862 kPa	124 psi 855 kPa		
	40' 0"	125 psi 862 kPa	124 psi 855 kPa	123 psi 848 kPa		

1) Add 5,597 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	B	C	D	E	F	G
HEIGHT TO HK. THROAT ⁽¹⁾	HEIGHT TO BTTM OF TP BM	OVERALL HEIGHT	I.C.W. ⁽²⁾	TREAD WIDTH	OVERALL WIDTH AT GROUND ⁽³⁾⁽⁴⁾	TROLLEY TRAVEL ⁽⁵⁾
25'- 0" (7.62 m)	28'- 11" (8.81 m)	36'- 10" (11.23 m)	40'- 0" (12.19 m)	49'- 2" (14.99 m)	58'- 5" (17.80 m)	33'- 2" (10.11 m)
30'- 0" (9.14 m)	33'- 11" (10.34 m)	41'- 10" (12.75 m)	50'- 0" (15.24 m)	59'- 2" (18.03 m)	68'- 5" (20.85 m)	43'- 2" (13.16 m)
†40'- 0" (12.19 m)	43'- 11" (13.39 m)	51'- 10" (15.80 m)	60'- 0" (18.29 m)	69'- 2" (21.08 m)	78'- 5" (23.90 m)	53'- 2" (16.21 m)

H	I	J	K	L	
WHEELBASE & HK. CENTERS	OVERALL LENGTH	GROUND TO ENG. FRAME	GROUND TO SIDE BEAM	OPERATOR EYE LEVEL	
30'- 0" (9.14 m)	40'-8" (12.40 m)	2'- 9" (0.84 m)	14'-0" (4.27 m)	Inward facing cab	22'- 6" (6.86 m)
40'- 0" (12.19 m)	50'-8" (15.44 m)			High Inward facing cab	30'- 6" (9.30 m)

(1) Add 6" (0.15 m) for dual hook 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 16" (0.41 m) for overall width at top.

(5) Single hook dimensions shown,

For dual hook, 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.

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