

# MJ250HD TRAVELIFT<sup>®</sup> CRANE SPECIFICATIONS •INDUSTRIAL APPLICATION•



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ISO 9001:2008 CERTIFIED

**CAPACITY**.....500,000 LBS (226,797 KG)

## STANDARD EQUIPMENT

Enclosed Inward facing cab 20' 11" (6.38 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) 27.00 x 49 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 200

## BRAKING SYSTEM

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

## 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"<sup>1</sup>  
Chain.....ANSI 160

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

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

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

4- Consult factory when adding magnet package

## 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"<sup>1</sup>  
Wire Rope.....3/4" 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.....60 fpm (18.3 m/min)  
Slope.....3.0%

## 2 Speed Hoist

Rated Capacity.....9.5 fpm (2.9 m/min)  
Empty to 50% of Capacity.....19.0 fpm (5.8 m/min)

Final Drive Ratio	Level Drive Speed at Rated Capacity Speed	Max. Gradeability <sup>2</sup> at Rated Capacity	
		Paved	Gravel
<b>2 Speed Drive</b>			
Empty.....	3.00 mph (4.9 km/h)	3.9%	2.0%
Laden.....	1.75 mph (2.9 km/h)	3.9%	2.0%

## SERVICE CAPACITIES

	U.S.	METRIC
Fuel Tank.....	100 gals	378L
Hydraulic System <sup>3</sup> .....	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<sup>®</sup> • 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 package<sup>4</sup> • Spreader beams • Spare parts kit

# MJ250HD TRAVELIFT® CRANE

## 250HD ESTIMATED SHIPPING WEIGHTS:

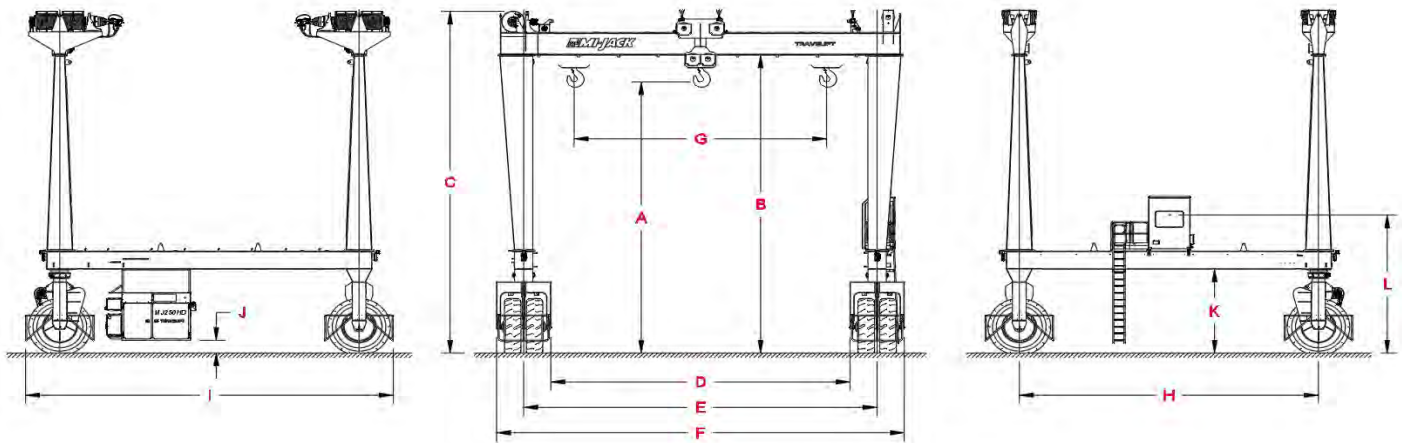
		ICW			25' 0"	WB
		40' 0"	50' 0"	60' 0"		
HK HT	25' 0"	251,581 lbs 114,115 kg	260,230 lbs 118,038 kg	277,674 lbs 125,951 kg	25' 0"	WB
	30' 0"	258,870 lbs 117,421 kg	267,518 lbs 121,344 kg	284,963 lbs 129,257 kg		
	40' 0"	274,357 lbs 124,446 kg	283,006 lbs 128,369 kg	300,450 lbs 136,282 kg		

## 250HD GROUND BEARING PRESSURE

		ICW			25' 0"	WB
		40' 0"	50' 0"	60' 0"		
HK HT	25' 0"	136 psi 938 kPa	137 psi 945 kPa	139 psi 958 kPa	25' 0"	WB
	30' 0"	136 psi 938 kPa	138 psi 951 kPa	139 psi 958 kPa		
	40' 0"	137 psi 945 kPa	139 psi 958 kPa	140 psi 965 kPa		

- 1) Add 3,113 lbs for 30' WB
- 2) Add 8,301 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 <sup>(1)</sup>	HEIGHT TO BTM OF TPBM	OVERALL HEIGHT	ICW <sup>(2)</sup>	TREAD WIDTH	OVERALL WIDTH AT GROUND <sup>(3)(4)</sup>	TROLLEY TRAVEL <sup>(5)</sup>
25'-0" (7.62 m)	28'-11" (8.81 m)	36'-5" (11.10 m)	40'-0" (12.19 m)	47'-9" (14.55 m)	55'-6" (16.92 m)	35'-6" (10.82 m)
30'-0" (9.14 m)	33'-11" (10.34 m)	41'-5" (12.62 m)	50'-0" (15.24 m)	57'-9" (17.60 m)	65'-6" (19.96 m)	45'-6" (13.86 m)
†40'-0" (12.19 m)	43'-11" (13.39 m)	51'-5" (15.67 m)	60'-0" (18.29 m)	67'-9" (20.65 m)	75'-6" (23.01 m)	55'-6" (16.92 m)

H	I	J	K	L
WHEELBASE & HK CENTERS	OVERALL LENGTH	GROUND TO ENG FRAME	GROUND TO SIDE BEAM	OPERATOR EYE LEVEL
25'-0" (7.32 m)	34'-8" (10.57 m)	2'-10" (0.86 m)	12'-11" (3.94 m)	Inward facing cab 20'-11" (6.38 m)
30'-0" (9.14 m)	39'-8" (12.09 m)			High Inward facing cab 27'-2" (8.28 m)
40'-0" (12.19 m)	49'-8" (15.14 m)			

(1) Add 5' (0.13 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 10' (0.25 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.

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