

ELECTRIC RAILCAR MOVER CRAB 3100 E



MAXIMUM TRACTIVE EFFORT: 8,100 lbs (36 kN)
MAXIMUM TOWING CAPACITY: 1,610,000 lbs* (730 t)
WEIGHT: 14,550 lbs (6.6 t)
DIMENSIONS LxWxH: 122.0"x96.4"x95.8" (3100 mm x 2450 mm x 2435 mm)
UNLOADED RAIL SPEED: 4.4 mph (7 km/h)
RAIL SPEED AT MAX LOAD: 1.8 mph (3 km/h)
STANDARD GAUGE: 56.5" (1435 mm)

(* max performance on dry, flat and straight rail



A Marmon Group/Berkshire Hathaway Company

CRAB 3100 E SPECIFICATIONS

Standard Features

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Battery

- 80V 1.000Ah (40 cells - 2V per cell)
- On board battery charger with UL/CSA certified plug - 80V, 80A charging unit
- Centralized battery filling system with visual floater indicating battery fluid level
- Battery charging time less than 8 hrs

Rail Mode Performances

- Motor - 20 kW 80V - AC Brushless motor
- Large 20.4" (520 mm) diameter rail wheels with steel guidance flange and replaceable high traction rolling surface
- Hydraulic system for switching between road and rail mode
- Machine operates onboard cabin

Road Mode Performances

- Motor - 7.5 kW 80V - AC Brushless motor
- Three (3) wheels - traction drive on front wheel and two free-wheels in back for ease of movement
- Shock absorbed by precharged nitrogen accumulators
- Hydraulic power steering type on front wheel
- Tight turning radius

Safety Devices

- Equipped with red and white directional movement signaling lights during rail mode
- Horn
- Automatic alarm while moving in road mode
- Orange beacon light
- Perimetral emergency buttons
- Hand brake activation in case of low oil pressure in the braking system
- Emergency braking system in case of failure
- Safety system to prevent sudden direction change during operation
- Safety system to prevent unit from switching on during recharge

Train brake

- Pneumatic braking system with 10 CFM compressor

Traction Control System

- Governed by a programmable micro PLC and high efficiency inverters

Brake

Rail mode

- Fully proportional hydraulic powerbrake system
- Parking/Emergency brake - Spring applied hydraulic pressure released

Road mode

- Drum type brakes with independent hydraulic circuit brake
- Parking - Spring applied hydraulic pressure released

Cabin and driver seat

- Heavy duty, insulated cabin with two lockable doors and full visibility from driver seat
- Adjustable driver seat with safety belt
- Windows on the cabin floor with dedicated lights for ease positioning the machine on rail

Instrument panel

- User-friendly multifunctional panel

Options

- Operator remote control
- Interlock safety remote control system for Wheel Truing Machine
- Coupler based on customer requirements
- Hydraulic or manual slide for coupler height adjustment
- Different rail gauge measures
- Rail track short-circuiting signaling system
- Photocell safety barrier - automatically stops machine in defined positions
- Pin type connectors
- Electric winch for coupler lifting
- Rubber buffers
- Distance proximity sensors with acoustic function (Rail mode)
- LED working lights
- Air conditioning and heating system
- Arctic pack for cold environment

Crab 3100 E Dimensions

	RAIL MODE	ROAD MODE
LENGTH	96.4" (2450 mm)	122.0" (3100 mm)
WIDTH	122.0" (3100 mm)	96.4" (2450 mm)
HEIGHT	95.8" (2435 mm)	95.8" (2435 mm)



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