

PRODUCTION GRINDER

Model RMS 48-120



PRODUCTION GRINDER

Special Features

Harsco Rail's grinding products will extend the life of your track and enhance performance with industry leading speed at a low overall cost. The line of Production Grinders decrease the number of passes required to grind the rail while executing a smooth finish. Profile grinding is the basis for controlling wheel/rail contact and reducing the wear and fatigue of the track, and Harsco Rail grinders focus on correcting rail interface, extending wheel life, maximizing rail life, and decreasing noise from track. Harsco Rail grinders are designed to meet local standards of the customer.

Features & Benefits

- Jupiter II Control System
- Laser Profile Measurement System
- Hydraulic Pump Stand
- Electrical Control Room
- Water Spray Fire Control System
- Dust Collection System
- Comfortable Control Cabins



Grinding Units

The grinding system is equipped with a grinding motor speed of 3,600 RPM at a grinding head angle range from 75 degrees gauge to 45 degrees field. The production grinders can grind from 5 to 28 km/h (3 to 17 mph) both forwards and backwards.

Laser Profile Measurement System

The Laser Profile Measurement System is a rail cross section measuring device. It provides accurate and reliable measurement of rail profiles in real time. The system is designed to function on board a grinding machine with minimum operator intervention.

Fire Suppression

The Production Grinder carriage is skirted with protective shields and spark suppression devices to contain sparks and dust. The machine is also equipped with a 15 meter hose reel with adjustable spray nozzle, side water nozzles,

3,000 liter (790 gal.) water tank on-board, and an optional unit to inject foaming agents into water spray if needed.

Control Cabins

The control cabins are designed with insulating materials to minimize external vibrations and noise. The windows have tinted, double-pane, argon-filled safety glass, and the cabin has an intercom system for inside and outside communication. There is full internal control of the machine with a computer control system.

Optional Dust Collection System

The production grinders can be equipped with a dust collection system to evacuate the enclosure around the grinding units. This system collects 99% of airborne particles greater than .5 microns that are generated by the grinding process and stores the dust in drawers located at the bottom of the unit for convenient and easy disposal.



Jupiter II Control System

Jupiter II is a distributed input/output control system developed to simplify the electrical control system while improving data management of equipment performance. It combines the latest in asset maintenance with equipment performance optimization. Jupiter II also reduces the risk of electrical malfunction and operational downtime. The control system delivers accurate, repeatable results and effective operator interface for computer-controlled applications.

Contract Services

Harsco Rail has been involved in successful contract grinding operations for over 50 years, covering more than 300,000 km (192,000 miles) in the last seven years. Rail grinders have been designed to accommodate the varying operating and environmental conditions encountered throughout the world.

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Specifications

Max Traveling Speed	80 km/h at 1% grade (50 mph)
Max Speed on 2.65% grade	35 km/h (21 mph)
Min Braking Rate on dry, level track	2.5 km/h (1.5 mph)
Min Traveling Curve Radius	80 m (262 ft.)
Max Superelevation	160 mm (6 in.)
Max Towing Speed	100 km/h (62 mph)
Grinding Speed	5 to 28 km/h (3 to 17 mph)
Grinding Direction	Both forward and backward
Min Grinding Curve Radius	100 m (328 ft.)
Grinding Motor Speed	3,600 RPM
Grinding Head Angle Range	75 degrees gauge to 45 degrees field

Download full specs at www.harscorail.com
 Watch video at www.youtube.com/user/harscorail

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