



# GRINDING VERSATILITY FROM HIGH-SPEED COMMUTER TO FREIGHT LINES

## RGC SERIES MAINLINE & PASSENGER RAIL GRINDER

**Loram's RGC Series Rail Grinder** combines the capabilities of a mainline grinder with the compact design needed for passenger and commuter systems. It delivers the high productivity Loram is known for, within a reduced platform footprint suited for high-speed and urban rail networks.

Designed with advanced technology, the RGC meets strict international standards for build, fire safety, weight, and clearance. It fits the W6A (UK) clearance diagram and supports axle weights required for both commuter and freight rail operations.

Optional features—such as Loram's RailPro, optical transverse and longitudinal rail measurement, and HD geo-tagged rail surface imagery—provide detailed, real-time insight into rail condition.

With independent tilt and shift modules, the RGC achieves Loram's world-class grinding performance on both mainline tracks and specialty assets (in a 40-stone configuration).

### FEATURES AT A GLANCE

- **Best in class power and grind speeds** with industry-leading 30 hp (22 kW) motors
- **Configurable** from 40 to 80 stone grinder
- **Reduced platform footprint** to fit W6A and most international clearance diagrams
- **Independent tilt and shift grind modules** for total grind coverage
- **Optional Support Car(s)** ability to add up to 29,000 gallons of water
- **Integrated Dust Collection** and Noise Suppression systems
- **EN 13231 capable**

For more information on this machine, or on developing a tailored maintenance program for your railroad, contact Loram at **1-800-328-1466** or visit **LORAM.COM**

# SPECIFICATIONS

## RGC SERIES RAIL GRINDER

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Length <sup>1</sup>	275.9–483.5 ft (84.1–147.4 m) 185.3 m (extra water configuration)
Width	9 ft-1 in (2.77 m)
Height	Maximum 12 ft-10 in (3.91 m)
Maximum Axle Weight <sup>1</sup>	20.0 tonne, 22 ton (including all fluids and materials)
Grind Motors	30 Hp (22.4 kW)
Grind Speed	Up to 20mph (32 km/h)
Travel Speed	Up to 70 mph (112 km/h)
Gradeability	Up to 4.0%
Minimum Grind Radius <sup>1</sup>	Down to 328 ft (100 m) [actual curving capability will depend on railway infrastructure]
Minimum Travel Radius	Down to 262 ft (80 m) [actual curving capability will depend on railway infrastructure]
Grind Angles	75° gauge to 25° field
Generator Power <sup>1</sup>	3.25 mW
Fuel Capacity <sup>1</sup>	3,400–6,100 gal (12,870–23,091 litres)
Water Capacity <sup>1</sup>	4,000–29,000gal (15,141–109,776 litres)
Track Gauge	1,067–1,435 mm 42–56.5 in (custom track gauge available)

<sup>1</sup> Configuration dependent  
Specifications subject to change

### RGC Series Additional Features & Benefits:

- Industry-leading electric 30 hp (22 kW) motors for the most efficient metal removal, optimizes grind time and reduced cost
- Reduced platform footprint to designed to fit most international clearance diagrams
- Module capability to grind in third rail applications, with either energized or de-energized third rail
- State of the art traction system with speed and grade travel capabilities
- Machine software development to EN50128
- Redundant engine and Traction systems per consist
- A robust production rail grinding solution with the ability to perform specialty rail grinding
- 22 ton (20 tonne) axle weight
- Independent tilt and shift grind modules for complete grind pass coverage
- EN13231 capable machine, offering grind quality standards to perform maintenance on high speed rail
- Grind dust collection
- Advanced fire suppression technology (including tie and ditch sprays, remote controlled water cannons and deployable fire hose)
- Flame-resistant hydraulic fluid



### SERVICE & SUPPORT

With a 70-year plus legacy of serving the railroad industry with the most advanced technologies, the most reliable and productive maintenance of way equipment and world-class contract service work, Loram brings its partnership approach to every customer relationship. This includes an extensive training and technical support program with every machine. Whether for a heavy haul, high-speed, underground or metro-rail system, Loram has the equipment and services you need.

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