



THE INDUSTRY WORKHORSE IN SHOULDER BALLAST CLEANING MAINTENANCE.

HP SERIES SHOULDER BALLAST CLEANER

Loram's High Performance Shoulder Ballast Cleaner (HP SBC) is the industry's proven performer for heavy haul, freight and commuter railroads. The Loram HP SBC offers class-leading value with a superior combination of production speed, depth of cut and ballast cleaning quality.

Loram's HP SBC machines are self-propelled, equipped with twin, 30-inch wide, high-capacity digging buckets to clean ballast from the tie ends outward to the edge of the ballast section, typically digging 8 inches below bottom of tie. Scarifier teeth on each side of the SBC undercut the tie ends up to 5 inches, breaking up mud pockets and restoring drainage.

Vibrating separator screens on the Loram HP SBC clean and restore fouled ballast by removing dirt, mud, and fines more effectively than any other machine in its class. Loram's exclusive elliptical throw agitation and adjustable screen leveling from 9° to 19° provides optimal cleaning in any ballast conditions, to compensate for super elevation and to transfer ballast from side-to-side as required. In wet conditions, the screen angle can be adjusted lower for longer cleaning action. In common ballast conditions, the screen angle can be adjusted higher, delivering increased cleaning speeds. Reclaimed ballast is repositioned on either or both shoulders, and fines are discharged up to 29 feet from track centerline.

FEATURES AT A GLANCE

- **Ballast handling capacity** of 1,200 m³/hr (1,570 yd³/hr)
- **Speeds up to 2 mph** (3.2 km/h) at typical digging depths of 8 in. (200 mm) below the bottom of the tie
- **Adjustable screen leveling** from 9 – 19° with elliptical throw agitation
- **Maximum digging depth** of 34 in. (860 mm) from top of rail
- **Effective ballast cleaning area** up to 30 in. (760 mm) from end of the tie
- **Integrated scarifier teeth** undercuts tie ends up to 5 in. (130 mm), breaking up mud pockets and restoring drainage
- **Discharge of separated fines** up to 29 ft (8.8 m) from track centerline

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**



LORAM.COM | 1-800-328-1466
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3900 ARROWHEAD DRIVE | HAMEL, MN 55340 USA

SPECIFICATIONS

LORAM HP SERIES SHOULDER BALLAST CLEANER

| HP SERIES SHOULDER BALLAST CLEANER | |
|------------------------------------|---|
| Length ¹ | 136 ft (41.5 m) |
| Width ¹ | 10.7 ft (3.3 m) |
| Height ¹ | – Working: 18.5 ft (5.6 m) – Traveling: 15.5 ft (4.7 m) |
| Weight ¹ | 406,000 lb (182,700 kg) |
| Working Speed | Up to 2 mph (3.2 km/h) at 8 in. (200 mm) cutting depth from bottom of tie |
| Production Rate ² | 1,570 yd ³ /hr (1,200 m ³ /hr) |
| Maximum Digging Depth | 34 in. (860 mm) from top of rail |
| Digging Width | 30 in. (760 mm) from end of tie |
| Scarifier Penetration | Up to 5 in. (130 mm) from end of tie |
| Waste Discharge | Up to 29 ft (8.8 m) from either side of track center or into an auxiliary car |
| Travel Speed | – Self-powered: Up to 48 mph (77 km/h) – In train consist: Up to 60 mph (100 km/h) |
| Gradeability | Up to 4% |
| Minimum Work Radius | 17.5° curve (100 m radius) |
| Minimum Travel Radius | 17.5° curve (100 m radius) |

¹ Excluding Auxiliary Cars

² Typical; subject to application and material conditions

Specifications subject to change



Digging wheel. Two digging wheels rip through compacted ballast to a depth of up to 16 in. (400 mm) from the bottom of the tie. Each wheel is 30 in. (760 mm) wide to allow cleaning from the ends of the ties to the edge of the shoulder.



Scarifier tooth. A scarifier tooth on each side of the machine undercuts the tie ends up to 5 in. (130 mm) to break up mud pockets and restore drainage.



Vibrating screen. Double deck with adjustable screen level and angle.



Ballast discharge. The HP SBC distributes the cleaned ballast along the shoulders, at a rate that can be varied for local conditions. Plus, it establishes the railroad-specified shoulder slope as it works.

SERVICE & SUPPORT

With a 60-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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