

SWITCH TAMPING MACHINE

STM



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The Switch Tamping Machine (STM) is a small, truck transportable, tamping machine with Harsco Rail's positive displacement tamping units. The STM provides versatility, simplicity, and quality tamping built on a lower cost platform. This machine can perform spot tamping as well as tandem tamping in production operations. The traversing workheads permit switch tamping as well.

SPECIFICATIONS

Length	6.7 m (21.9 ft.)
Width	3.2 m (10.5 ft.)
Height	3.3 m (11 ft.)
Wheelbase	3.4 m (8.6 ft.)
Track Gauge	1.4 m (4.7 ft.)
Main Frame	Welded steel construction
Wheels and Axles	762 mm (20 in.) cast steel (AAR Profile) wheels on solid alloy steel axles
Suspension	Fixed front axle, rear pivot axle with pillow block bearings mounting to frame
Brakes	Air-operated tread-type shoe brakes with a single composition shoe on each wheel; spring-applied, air-released, parking/emergency brake for automatic brake actuation in case of air pressure loss
Drive Train	Three-speed transmission with hydraulically driven traction motor and chain drive to front axle
Engine	Cummins QSB6.7 liquid cooled diesel
Hydraulic System	Two double pumps operating at 137.9 bar (2,000 psi)
Air System	7.1 L/sec (15 CFM) engine compressor, 689.5 kpa (100 psi) operating pressure
Electrical System	24-VDC system
Cab	Fully enclosed cab is accessible from either side of machine via a side platform equipped with ladder-type steps; provides operator with excellent visibility while working and traveling
Tamping Units	Four hydraulically driven vibrators power 16 abrasion-resistant tools at 50Hz; traversing workheads tamp entire switch area
Optional:	
Leveling System	Harsco Rail Delta System
Lining Systems	Manual curve linear capable of lining both tangent and curved track during tamping and surfacing operations; it consists of an infrared projector and receiver at a fixed distance from the line rail, and a shadowboard at a variable distance from the line rail
Jacking System	Shoulder jacks are located on an overhead jack frame which allows lateral movement of the workheads in tamping a switch

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