

# PRODUCTION TIE EXCHANGER

Model TKO®



Harsco Rail's TKO® Tie Exchanger provides a precision control rail lift system. The machine executes fast, efficient old tie removal and proper insertion of the new ties with minimum disturbance of the track structure. The TKO focuses on controlling rail-to-tie clearance with its distinctive rail lift system. The Harsco Rail's TKO Tie Exchanger is the fast, efficient way to remove or insert ties with minimum disturbance of the track structure.

# PRODUCTION TIE EXCHANGER

## TKO® Specifications

### Features & Benefits

- Two clamp/lift units located on four foot centers
- Four jack cylinders controlled by an automatic system
- Heavy duty construction for high production
- Articulated gripper heads able to pivot up to 40 degrees
- Optional tie kicker is able to apply 4,535 kg (10,000 lbs.) of horizontal force
- Comfortable control cab with excellent track view

Length	7.62 m (25 ft.)
Width	2,896 mm (9.5 ft.)
Height	3,201 mm (10.5 ft.) over exhaust
Weight	12,360 kg (27,250 lbs.) (actual weight may vary based on features selected)
Wheelbase	5.48 m (18 ft.)
Frame	Welded structural steel "I" beam construction
Engine	Cummins OSB6.7 liquid cooled turbocharged diesel developing 173 bhp @ 2500 RPM
Axles	Heavy duty bolted carrier, enclosed no-slip differential. Semi-floating axle shafts with integral wheel mounting flanges.
Wheels	610 mm (24 in.) diameter cast steel wheels (AAR profile)
Suspension	Laminated rubber vee spring at each wheel
Brakes	Tread-type air operated brakes, with two composition shoes on all four wheels
Drive Train	Hydraulically driven; operator selectable 4-wheel drive. Hydraulic traction motors directly coupled to each axle.
Air System	Engine-driven air compressor (15.2 cfm) Operating pressure 6.9 - 8.6 bar (100-125 psi)
Electrical System	12 Volt D.C.; 160 amp Alternator
Fuel Tank Capacity	303 liters (80 gal.) Two tanks total
Hydraulic Tank Capacity	341 liters (90 gal.)
Travel Speed	43 km/h (27 mph)
Gradeability	8.5%
Operator's Cab	Enclosed cab with good visibility of work area. Sliding side entry doors. Standard features include acrylic windows, windshield wipers, interior lighting and air horn. Heater, defroster, tinted windows and air conditioning are some of the available options
Extracting Force	Up to 9,389 kg (20,700 lbs.)
Tie Kicker	Up to 4,536 kg (10,000 lbs.) to push the end of the tie being removed.
Inserting Force	Up to 6,146 kg (13,550 lbs.)
Tie Removal Stroke	1,676 mm (66 in.) Extracting head located right side of machine
Rail Lifting	Two rail clamp/lifting units are positioned one in front and one behind the boom. Capacity is 11,521 kg (25,400 lbs.) per lift cylinder.

Download full specs at [www.harscorail.com](http://www.harscorail.com)  
Watch video at [www.youtube.com/user/harscorail](http://www.youtube.com/user/harscorail)

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RAIL



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