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Stanray TN-84C Underfloor Wheel Truing Machine Data Sheet



The **Stanray TN-84C Underfloor Wheel Truing Machine** is an underfloor pit-mounted milling machine, capable of simultaneously profiling both wheels of a wheel set using the axle centers as the machining reference point. It is capable of profiling wheel sets to necessary specifications for tape size, concentricity, and plane dimensions in any of the following situations: 1) while the wheel set is under a locomotive, passenger or freight car, transit vehicle, or other rolling stock, 2) while the wheel sets are mounted in a truck, and 3) while the wheel set is demounted as a single set.

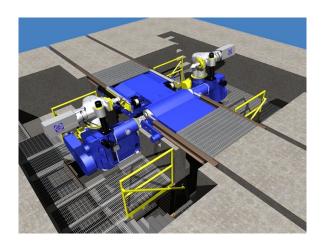
The Stanray reprofiles both wheels simultaneously to equal diameters, leaving a witness groove at the flange of the profile. The full profile milling technology does not require undercutting the tread surface or flat spots by 1.6 mm (1/16 inch) as required for single point turning method on the underfloor lathe. Substantial material and cost savings as well as increased mileage are therefore utilized by full contour milling.

Both wheels of a wheel set will be finished automatically to the diameter that is required to clean up, while removing the minimum amount of metal possible.



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Machine Dimensions

Fabricated Beam Maximum Length	120 in.	3048 mm
C-Frame Maximum Width	225 in.	5715 mm
C-Frame Maximum Height	107 in.	2717.8 mm
Total Weight	40000 lbs.	18143.67 kg

Pit Dimensions

Length	310 in.	7874 mm
Width	305 in.	7747 mm
Depth	113 in.	2870.2 mm

General Specifications

Production	Up to 12 wheel sets per 8-hour shift			
Diameter Accuracy	+ /- 0.020 in.	+/5 mm		
Eccentricity	+ /- 0.020 in.	+/5 mm		
Profile Accuracy	+ /- 0.010 in.	+/25 mm		
Surface Finish	200 RMS axially,			
	150 RMS on wheel circumference			
Milling Cutter Speed	230 RPM			
Hydraulic Centering Ram Force	6600 lbs.	2.9 kN		
Hydraulic Hold-Down Force	15 tons	133 kN		

Utility Requirements

Electrical Power	76 kW	
Hydraulic Reservoir	90 US gallons	340.69 liters

Wheel Set Dimensions

Three set billerene			
	Maximum Wheel Diameter	58 in.	1475 mm
	Minimum Wheel Diameter	23 in.	585 mm
	Maximum Axle Load	50 tons	445 kN

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