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Stanray M1 Above-Floor Wheel Truing Machine Data Sheet

The **Stanray® M1** is an above-floor railway wheel truing machine for restoring worn wheel profiles on individual wheel sets or complete bogie assemblies. Utilizing proven Stanray wheel profile milling technology, the M1 performs fully automatic measuring and cutting cycles while managing extreme wheel wear conditions. The machine's centerless operation allows for simplified construction that requires no pit or special foundation, making it an economical choice.

The Stanray M1 includes an integrated automatic measuring system that monitors the wheel location and measures diameter, width, and profile as well as wheel set back-to-back, back face runout, and radial runout on the tread. Final diameters, profile conformity, and other desired parameters are verified and sent to the customer's data management system or stored locally. The connectivity of the machine also allows for optional remote diagnostics, which will keep your revenue vehicles safe and on track.

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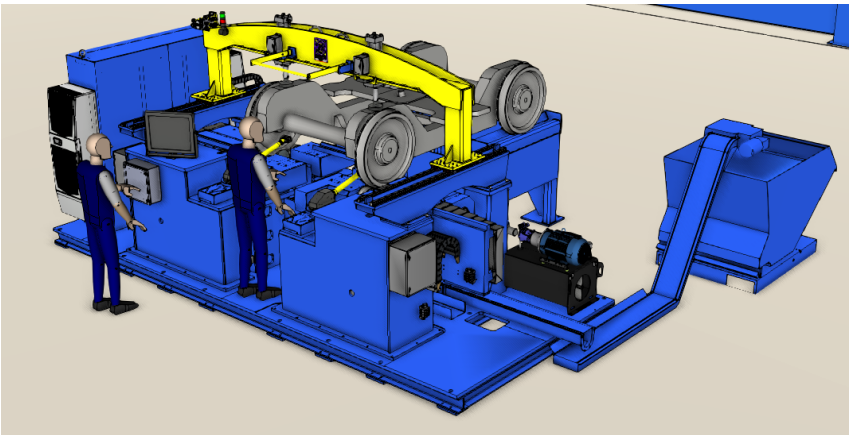

Machine Dimensions (Standard Gauge)

Overall Machine Length	216 in.	5846 mm
Approximate Machine Length With Standard Chip Conveyor	239.5 in.	6086 mm
Overall Machine Height	102.5 in.	2600 mm
Base Machine Depth	91 in.	2311 mm
Approximate Machine Depth With Bogie Support	158.5 in.	4021 mm
Height To Drive Rollers	48.5 in.	1234 mm
Total Machine Weight (Wheel Sets Only)	33000 lbs.	14969 kg
Machine Weight With Bogie Support	35000 lbs.	15876 kg

General Specifications

Profile Accuracy	0.008 in.	0.2 mm
Diameter Parity	0.006 in.	0.15 mm
Roundness (Radial T.I.R.)	0.004 in.	0.1 mm
Surface Finish (as Machined)	< 200 µ" Ra	< 5 µm Ra

Utility Requirements

Maximum Electrical Power	70 kW
Maximum Compressed Air	80-100 psi @ 15 scfm

Wheel Set Dimensions

Maximum Wheel Set Weight (= 1⁄2 of bogie)	15000 lbs.	6804 kg
Maximum Wheel Diameter (at Tapeline)	44 in.	1118 mm
Minimum Wheel Diameter (at Tapeline)	17 in.	432 mm
Maximum Wheel Width	5.85 in.	148.6 mm
Minimum Bogie Clearance (Lowest Point Above Rail)	2 in.	50 mm

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