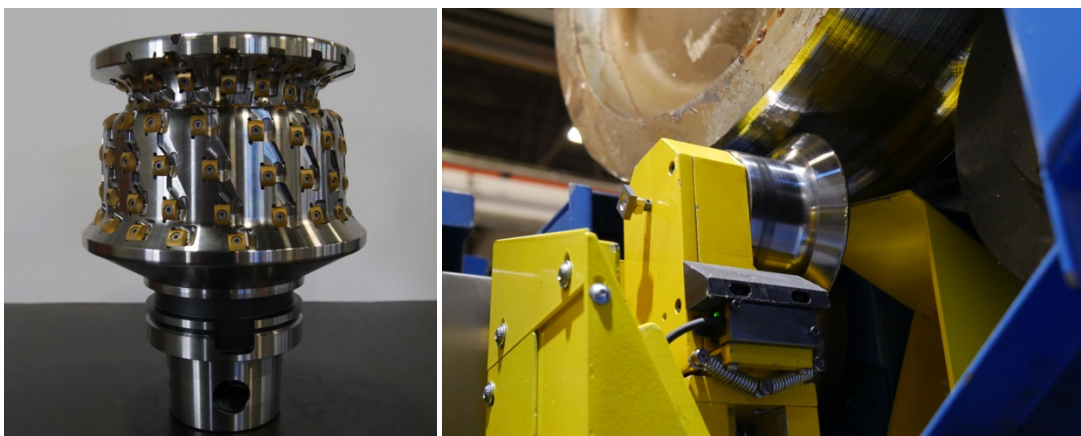


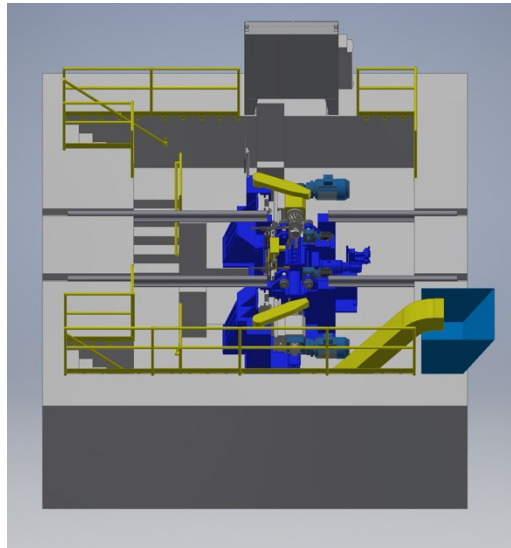
Stanray M2/M3 Underfloor Wheel Truing Machine Data Sheet



The **Stanray® M2/M3** is an underfloor railway wheel truing machine for reprofiling wheel treads on passenger and light rail vehicles. Utilizing proven Stanray wheel profile milling technology, the M2/M3 performs fully automatic measuring and cutting cycles while managing extreme wheel wear conditions. The machine's centerless operation allows for quick and easy setup which does not require removal of bogie components or access to axle centers. The Stanray M2 is designed for light rail vehicles with an axle load up to 40,000 pounds (180 kN). The M3 accommodates heavy rail applications, with an axle load up to 100,000 pounds (445 kN).

The Stanray M2/M3 includes integrated automatic measuring systems that monitor the wheel location and measure 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.





Machine Dimensions (Standard Gauge)

Overall Machine Length	85 in.	2160 mm
Base Machine Width	166 in.	4220 mm
Base Machine Weight	50000 lbs.	22680 kg

Pit Dimensions

Length (Including Stairs)	260 in.	6604 mm
Width	253 in.	6426 mm
Maximum Depth	88 in.	2235 mm

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 μ m Ra

Utility Requirements

Electrical Power	70 kW
Maximum Compressed Air	100 psi @ 20 scfm

Wheel Set Dimensions

Maximum Axle Load	40000 lbs.	180 kN
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 mm
Minimum Bogie Clearance (Lowest Point Above Rail)	2 in.	50 mm

Updated October 15, 2021