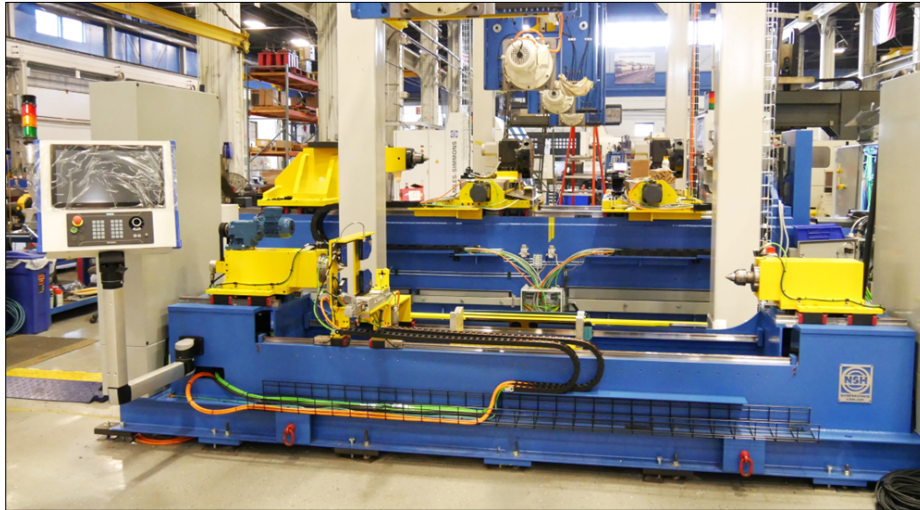


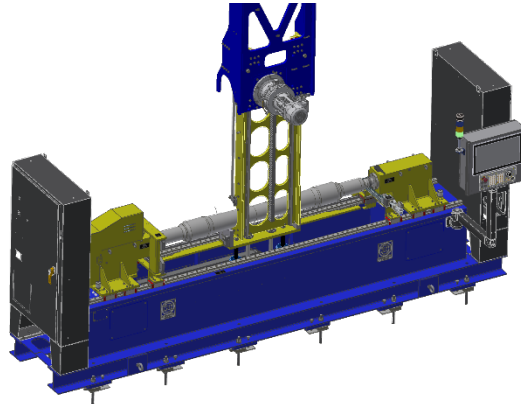
SIMMONS AXM-430 Axle Measurement System Data Sheet



The **SIMMONS AXM-430 Axle Measurement System** automatically inspects railroad axles to determine if the axle is acceptable for use in a wheel set. The AXM-430 measures a variety of axle features including:

- bearing journal diameter (temperature compensated)
- dust guard diameter
- wheel seat diameter
- body diameter
- axle length
- bearing journal length
- U-dimension
- bearing journal runout (relative to machine centers)
- bent axle condition
- dust guard to bearing journal runout
- wheel seat to bearing journal runout
- upset ends
- seal wear ring groove depth
- undercut bearing journal fillets

The AXM-430 interfaces with wheel shop automation systems to automatically route the axle to a wheel mounting press, an axle lathe, or a scrap area based on the measurements that are performed. The machine can also function as a standalone machine, and the measurement results can be stored to a database hosted locally on the machine or hosted remotely on the customer's server.



AXM-430 with optional overhead axle gantry

Machine Dimensions

Length	197 in.	5004 mm
Width (With Panel)	65 in.	1650 mm
Height (To Top of Stack Light)	90.5 in.	2300 mm
Weight	7020 lbs.	3185 kg

Utility Requirements

Electrical Power	21 kW
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Wheel Set Dimensions

Maximum Wheel Seat Diameter	10.1 in.	257 mm
Minimum Wheel Seat Diameter	5.1 in.	129 mm
Maximum Axle Length	89.25 in.	2267 mm
Minimum Axle Length	86.125 in.	2188 mm
Maximum Weight	1400 lbs.	635 kg

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