

Precision Rims

**For All Tire Uniformity Machines including Models ASTEC[®],
D70, D70 LTX, D90 and FD90.**



Rims are one of the most important, and at the same time, most neglected parts of a tire uniformity machine. The accuracy of your rims directly affects both the repeatability and correlation of your uniformity machines.

- Available in steel, stainless steel, or aluminum.
- Single or dual step available for use with all chuck types.
- Three step Geo Rims also available.
- Available for all T and RA profiles and for all custom contours.
- Held to the highest tolerance specifications in the industry.
- Allows the highest possible repeatability.
- "O" rings provided with shipment.
- Precision Rims may be re-conditioned to original specifications one to two times.

Precision Rims

Repeatability Factor

When radial and lateral rim runout is greater than 0.001", it is virtually impossible for the machine to repeat within specification regardless of the condition of the rest of the machine. For a tire with a spring rate of 1000 lbs/in (175 N/mm), each 0.001" of rim runout can result in up to 0.7 lbs (0.32 kg) standard deviation of non-repeatability.

The way the tire fits on the rim can also affect repeatability. A tire that fits too snug may not bead seat properly and settle on the seat during testing. Likewise, if the tire fits too loose, it can move or shift on the rim, which will affect the test results.

Correlation Factor

Correlation between multiple machines is also affected by rim contour, size, and overall condition. For one machine to correlate with another, the rims must be as identical as possible, without excessive wear and without nicks or gouges on the flanges. Results between machines can be assured when our precision rims are present on all applicable machines.

Available in Multiple Materials

Steel Precision	These are the standard precision rims provided, combining extremely accurate tolerances with superior wear characteristics for durability. These rims are electroless nickel plated to provide corrosion resistance and added lubricity.	
Stainless Steel Precision	Stainless steel precision rims combine the accuracy and durability of our standard steel precision rims with the added corrosion resistance and anti-magnetic characteristics associated with stainless steel.	
Aluminum (non-precision)	Aluminum rims are light weight and Teflon hard-coated for added wear resistance. Micro-Poise only supplies aluminum rims upon special request.	

<u>Specifications</u>	<u>Steel & Stainless Steel</u>	<u>Aluminum</u>
Diameter	± 0.005" (0.13mm)	± 0.005" (– 0.13mm)
Radial Runout*	0.0003" T.I.R. (0.008mm)	0.0005" T.I.R. (0.013mm)
Lateral Runout**	0.0003" T.I.R. (0.008mm)	0.0005" T.I.R. (0.013mm)

* Measured with respect to bore. ** Measured with respect to mounting face.

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