

Ballbar diagnostics table**XY 360deg 6in Calibrated 20220908-132107**

Operator: paauw

Machine: Quick check

Date: 2022-Sep-08 13:21:07

QC10: H15055, Last calibrated: 2022-09-07

Error	Magnitude		Independent circularity		Ranking
Backlash X	▶ 0.001319	◀ 0.001748in	0.001748in	(32%)	(1)
Backlash Y	▲ -0.000201	▼ -0.000248in	0.000248in	(4%)	(7)
Reversal spikes X	▶ -0.000370	◀ 0.000232in	0.000370in	(7%)	(6)
Reversal spikes Y	▲ 0.000094	▼ 0.000106in	0.000106in	(2%)	(10)
Lateral play X	▶ 0.000051	◀ 0.000087in	0.000071in	(1%)	(12)
Lateral play Y	▲ -0.000307	▼ 0.000224in	0.000161in	(3%)	(8)
Cyclic error X	↑ 0.000996	↓ 0.001358in	0.001299in	(24%)	(2)
Cyclic error Y	↑ 0.000449	↓ 0.000433in	0.000433in	(8%)	(3)
Servo mismatch	-0.41ms		0.000413in	(8%)	(4)
Squareness	-0.0273thou/in		0.000161in	(3%)	(9)
Straightness X	-0.000173in		0.000087in	(2%)	(11)
Straightness Y	-0.000008in		0.000004in	(0%)	(13)
Scaling mismatch	0.000760in		0.000382in	(7%)	(5)
Scaling error X	0.0034thou/in				
Scaling error Y	-0.0610thou/in				
Cyclic pitch X	0.625000in				
Cyclic pitch Y	0.625000in				
Calculated feedrate	59.83in/min				
Centre offset X	0.001370in				
Centre offset Y	-0.000740in				
Positional tolerance	0.004866in				
Best fit radius	5.905343in				
Circularity	0.003157in				

Test parameters

Radius	5.905512in
Feedrate	60.00in/min
Start/End/Overshoot	0°/360°/180°
Run sequence	CCW CW
Test position	
Sample rate	41.667Hz