

**Ballbar diagnostics table****XY 360deg 6in Calibrated 20220908-123739**

Operator: paauw

Machine: Quick check

Date: 2022-Sep-08 12:37:39

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

Error	Magnitude		Independent circularity		Ranking
Backlash X	▶ -0.000677	◀ -0.000563in	0.000677in	(34%)	(1)
Backlash Y	▲ 0.000130	▼ 0.000201in	0.000201in	(10%)	(3)
Reversal spikes X	▶ -0.000122	◀ 0.000122in	0.000122in	(6%)	(5)
Reversal spikes Y	▲ -0.000102	▼ 0.000047in	0.000102in	(5%)	(6)
Lateral play X	▶ 0.000063	◀ -0.000087in	0.000047in	(2%)	(9)
Lateral play Y	▲ -0.000130	▼ 0.000134in	0.000067in	(3%)	(7)
Cyclic error X	↑ 0.000043	↓ 0.000035in	0.000043in	(2%)	(10)
Cyclic error Y	↑ 0.000453	↓ 0.000508in	0.000488in	(25%)	(2)
Servo mismatch	-0.02ms		0.000020in	(1%)	(11)
Squareness	0.0086thou/in		0.000051in	(3%)	(8)
Straightness X	0.000024in		0.000012in	(1%)	(12)
Straightness Y	-0.000012in		0.000008in	(0%)	(13)
Scaling mismatch	0.000307in		0.000154in	(8%)	(4)
Scaling error X	-0.0137thou/in				
Scaling error Y	-0.0398thou/in				
Cyclic pitch X	1.200000in				
Cyclic pitch Y	0.629921in				
Calculated feedrate	59.89in/min				
Centre offset X	-0.000075in				
Centre offset Y	-0.000996in				
Positional tolerance	0.002043in				
Best fit radius	5.905354in				
Circularity	0.001327in				

**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