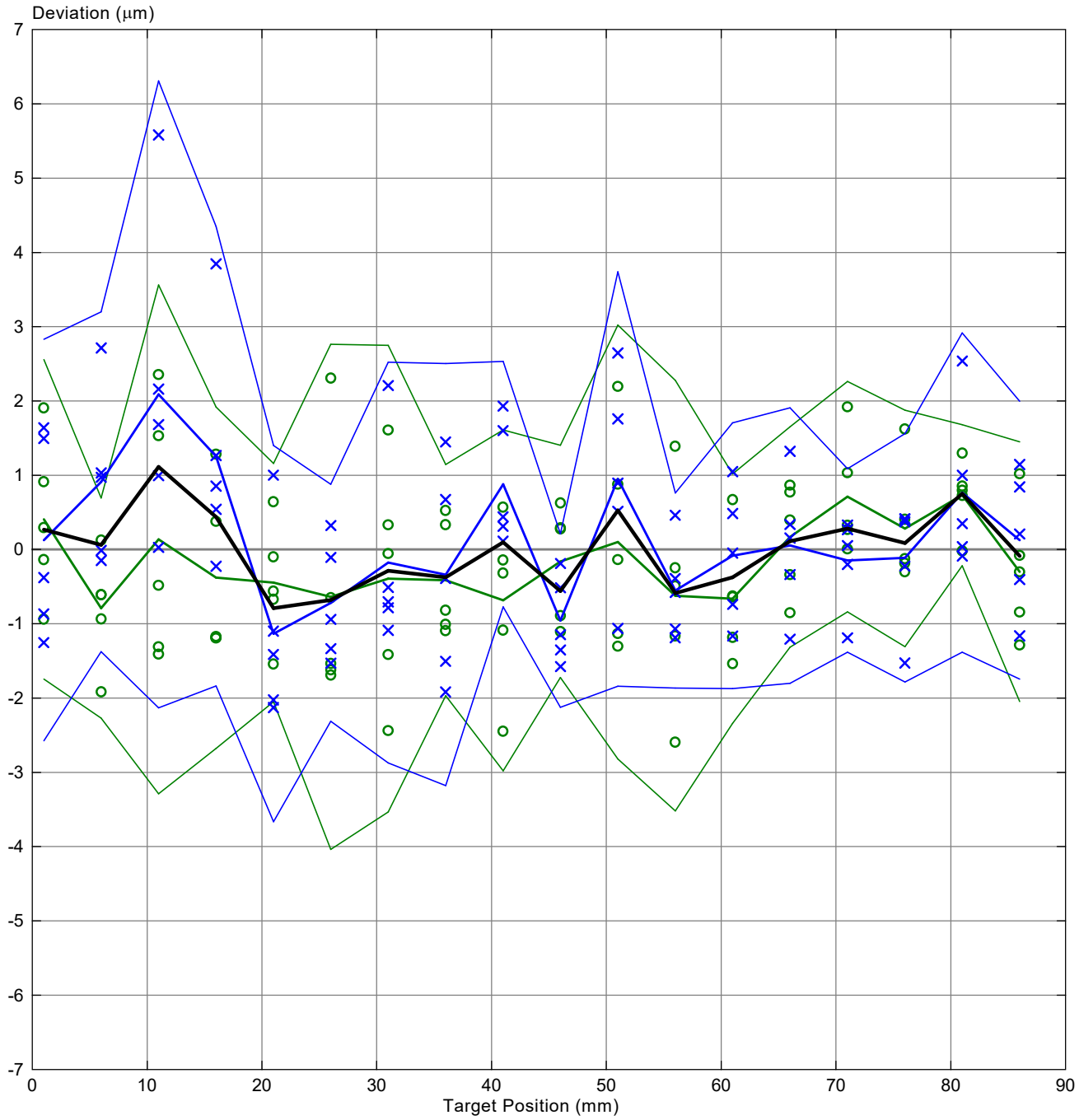
Straightness - Measurement Axis: Z



Forward Data Runs — Forward Mean — Forward +/-n sigma — Reverse Data Runs

Reverse Mean — Reverse +/-n sigma — Combined Mean

Numerical Analysis	
Standards:	ISO 230-2 1997
Coverage Factor (Sigma):	2
Accuracy:	A = 10.3 µm
	A↑= 7.6 µm
	A↓= 10.0 µm
Sys. Dev. Pos.:	E = 3.2 µm
	E↑= 1.5 µm
	E↓= 3.2 µm
Mean Bidir. Pos. Dev.:	M = 1.9 µm
Repeatability:	R = 9.6 µm
	R↑= 6.9 µm
	R↓= 8.4 µm
Max Reversal Error:	B = 2.0 µm
Mean Reversal Error:	$\overline{B}$ = -0.3 µm

Machine Information	
Name of Inspector:	Henrique
Machine Name:	Owis Stage
Machine Serial No.:	
Location:	Mechatronics Lab
Date of Test:	08.09.2026 11:12:37
Current Date:	20.10.2026 13:15:38
Filename:	OWIS_stageTR_Electronics...
Comments:	
TR-Electronics Encoder	
EL5042_DC	
ED7062_CSP	
Horizontal XZ plane	

Environmental Data	Max	Min	Mean
AT (°C)	22.14	22.06	22.10
AP (mmHg)	732.5	732.2	732.4
RH (%)	58	57	58
MT1 (°C)	22.36	22.29	22.32
MT2 (°C)	22.13	22.02	22.08
MT3 (°C)			