

CALIBRATION CERTIFICATE



General Information

Product HandySCAN 700™|Elite
Manufactured by Creaform Inc.
HandySCAN 3D S/N 9620422

Condition As left
Certificate number 02-23318-0548
Calibration date 2023-11-15
Ambient temperature Min 19.3 °C; Max 19.3 °C
Calibration center Creaform - Head Office Lab
4700, rue de la Pascaline
Lévis, Québec, G6W 0L9, Canada

Acceptance Test Procedure

Performance Testing Procedure¹

Volumetric performance 4 ballbars of 2 different lengths (see Equipments for details) are used to perform this procedure. Sphere-to-sphere length measurements are taken and deviations between measured and nominal lengths are reported. The acceptance limits of the sphere spacing test are defined as a variable dependent on the length of the artefact (0.0200 mm + 0.0600 mm/m).

Note 1 : Refer to procedure ATP962-01 for more details.

Calibration Results

<i>Test</i>	<i>Specification</i>	<i>Limits +/-</i>	<i>Result</i>	<i>Status</i>
Sphere Spacing (Max. dev.)	Volumetric Accuracy (0.520 m)	0.0512	-0.0208	Passed
	Volumetric Accuracy (0.395 m)	0.0437	-0.0093	Passed

Equipments

<i>Apparatus</i>	<i>Type</i>	<i>Serial number</i>	<i>Certificate number</i>	<i>Calibration date</i>
Ballbar #1	Ballbar 520 mm	BB520_005	55695	2023-01-25
Ballbar #2	Ballbar 520 mm	BB520_006	55696	2023-01-25
Ballbar #3	Ballbar 395 mm	BB395_005	55693	2023-01-25
Ballbar #4	Ballbar 395 mm	BB395_006	55694	2023-01-25
Comet System	Thermometer	SC2-2	E23-SC2-S2	2023-06-20

These calibration results are traceable to the International System of Units (SI) through Euramet laboratories for Europe (LNE, NPL, PTB, etc), the NIST or NRC for North America, ISO/IEC 17025 accredited calibration laboratories or National Metrology Institutes that are signatories to the International CIPM MRA (Mutual Recognition Arrangement).

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This certificate invalidates all other certificates generated before : 15/11/2023, 7:57

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Sphere Spacing

Summary

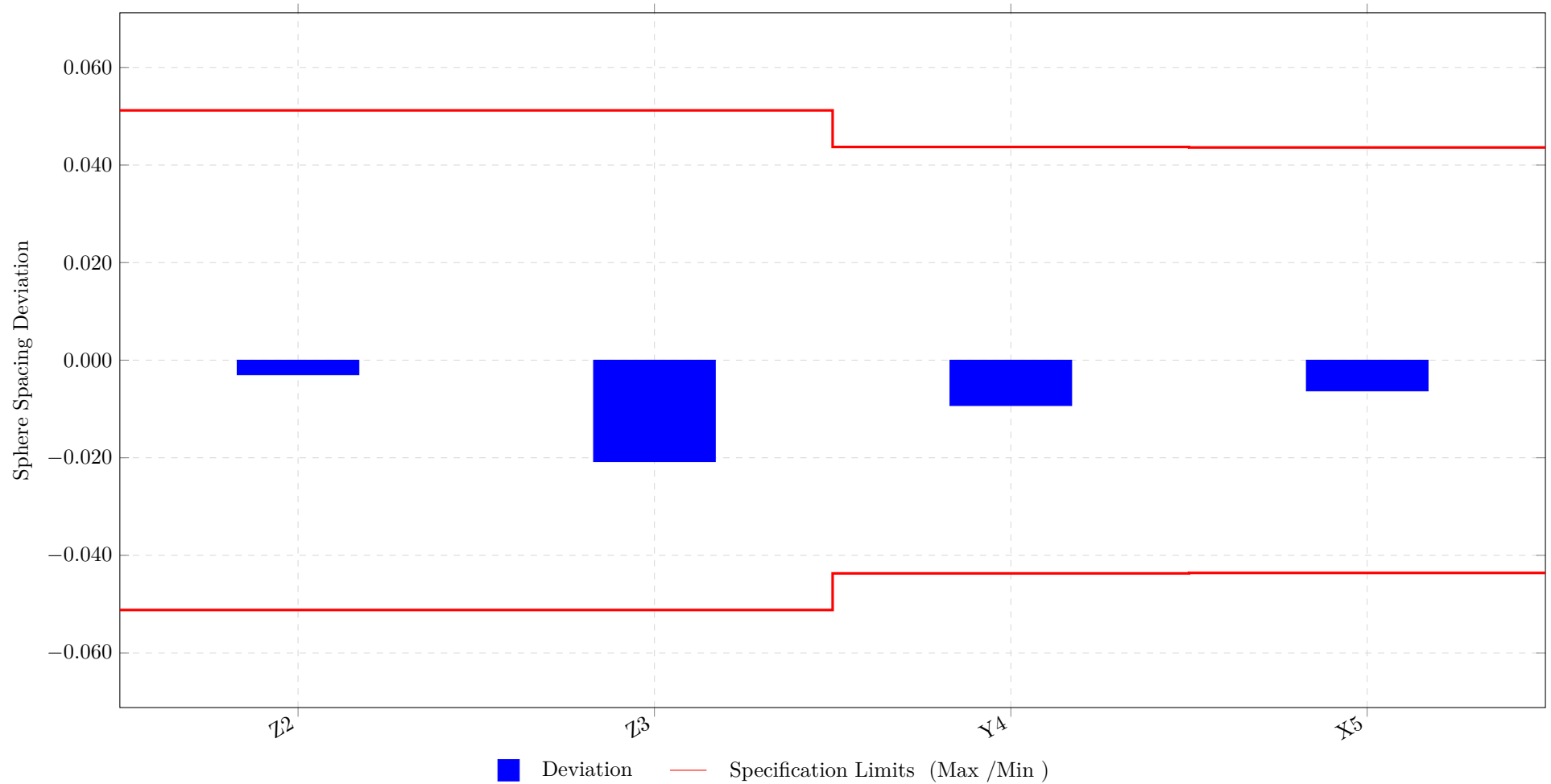
Specification	Limits +/-	Status	Max. Deviation (Result)
Volumetric Accuracy (0.520 m)	0.0512	Passed	-0.0208
Volumetric Accuracy (0.395 m)	0.0437	Passed	-0.0093

Detailed Results

Position	Limits +/-	Sphere Spacing Deviation	Sphere Spacing (Nominal)	Sphere Spacing (Measured)
Z2	0.0512	-0.0030	520.6534	520.6505
Z3	0.0512	-0.0208	520.7570	520.7362
Y4	0.0437	-0.0093	394.2200	394.2106
X5	0.0436	-0.0063	393.6967	393.6904
Average Deviation		-0.0098		
Max. dev. L=0.520 m (Result)		-0.0208	Passed	
Max. dev. L=0.395 m (Result)		-0.0093	Passed	

Sphere Spacing

Graph



Sphere Diameter

Summary

Specification	Max. Deviation (Result)
Accuracy	-0.0151

Detailed Results

Position	Size Deviation	Diameter (Nominal)	Diameter (Measured)
SPH1A	0.0034	38.0934	38.0969
SPH1B	-0.0041	38.0996	38.0956
SPH2A	-0.0151	38.0918	38.0768
SPH2B	0.0023	38.1057	38.1080
SPH3A	0.0021	38.1005	38.1026
SPH3B	-0.0012	38.0999	38.0986
SPH4A	-0.0006	38.0996	38.0990
SPH4B	-0.0139	38.1036	38.0897

Average Deviation	-0.0034
Max. dev. (Result)	-0.0151

Sphere Diameter

Graph

