Hexagon Manufacturing Intelligence, Inc.
46444 Hexagon Way
Novi, Michigan 48377
(248) 449-9444

SERVICE REPORT

DATE: 6/3/2022

CUSTOMER

Argonne National Laboratory
Michael Oprondek
moprondek@anl.gov
(630) 252-7069

SERVICE TEAM

WORK ORDER INFORMATION

Work Order Number: WO-00194164
PO Number: 1A-71276
Service Type: Depot Repair
Billing Type: Subsequent Obligation
Service Activities: Certification;Preventive Maintenance
Service Start Date: 05/25/2022

MACHINE INFORMATION

Product: AT403 ABSOLUTE TRACKER
Serial Number: 394712
Cert Number: 394712-03062022
Cert Date: 06/03/2022

SERVICE DETAILS

JOB DESCRIPTION:

SERVICE REQUESTED:
PM & Calibration of Laser Tracker & T-Probe or T-Scan/AS1/LAS (if applicable).

Calibration Due Date to be included on the certificate and calibration tag = YES
If a due date is to be included the default interval will be 12 MONTHS unless otherwise specified.

If you do not want an interval included, or if an alternate Interval is required, please let us know and we will provide you with a revised Quote/Contract Review that reflects your request. In addition, you

may indicate your requested interval on your purchase order.

PROJECT DESCRIPTION FOR ISO 17025 Accredited PM & CALIBRATION:

Collect "as received" data per OEM procedure.
Preventative Maintenance (PM) of Tracker system (includes external cleaning, tracker system diagnostics for encoders, laser intensity; tracker with controller and T-products FW update when applicable; on AT40x the re-greasing of membranes and motors optimization;
Tracker system full compensation per OEM procedure.
Provide documentation of "as received" and after calibration results and N.I.S.T. traceability of calibration equipment.
Affix calibration label and certificate to Tracker system.

Reported uncertainties are expressed as expanded uncertainty values at an approximately 95% confidence level using a coverage factor of k=2. Statements of compliance are based on test results without considering measurement of uncertainty.

If you have any questions or concerns regarding your service, please do not hesitate to contact us at PortableService.US@Hexagon.com.

SPECIAL INSTRUCTIONS:

SERVICE PERFORMED:

05/25/22 BJ** Performed incoming tracker data with non conforming results due to ADM measurements being out of tolerance. Sending system to repair for annual service.

05/27/2022--JP-- Completed standard service. Performed motor tests, along with ATDiag checks and adjustments. Increased ADM output and adjusted beam coincidence to meet specifications. Backed up parameters and updated firmware. System is ready for Comp & Cert.

06/02/22 BJ** Completed outgoing ATDiag checks. System is ready for compensation.
06/03/22 BJ** Completed tracker compensations and tracker recertification process. Completed recertification paperwork and stickers. Cleaned system and set to prepare for shipping.

OPEN ISSUES:

RECOMMENDATIONS:

LABOR/TRAVEL DETAILS

Type	Technician	Start Date	Line Qty

PART DETAILS

Type	Product	Product Code	Line Qty

EXPENSE DETAILS

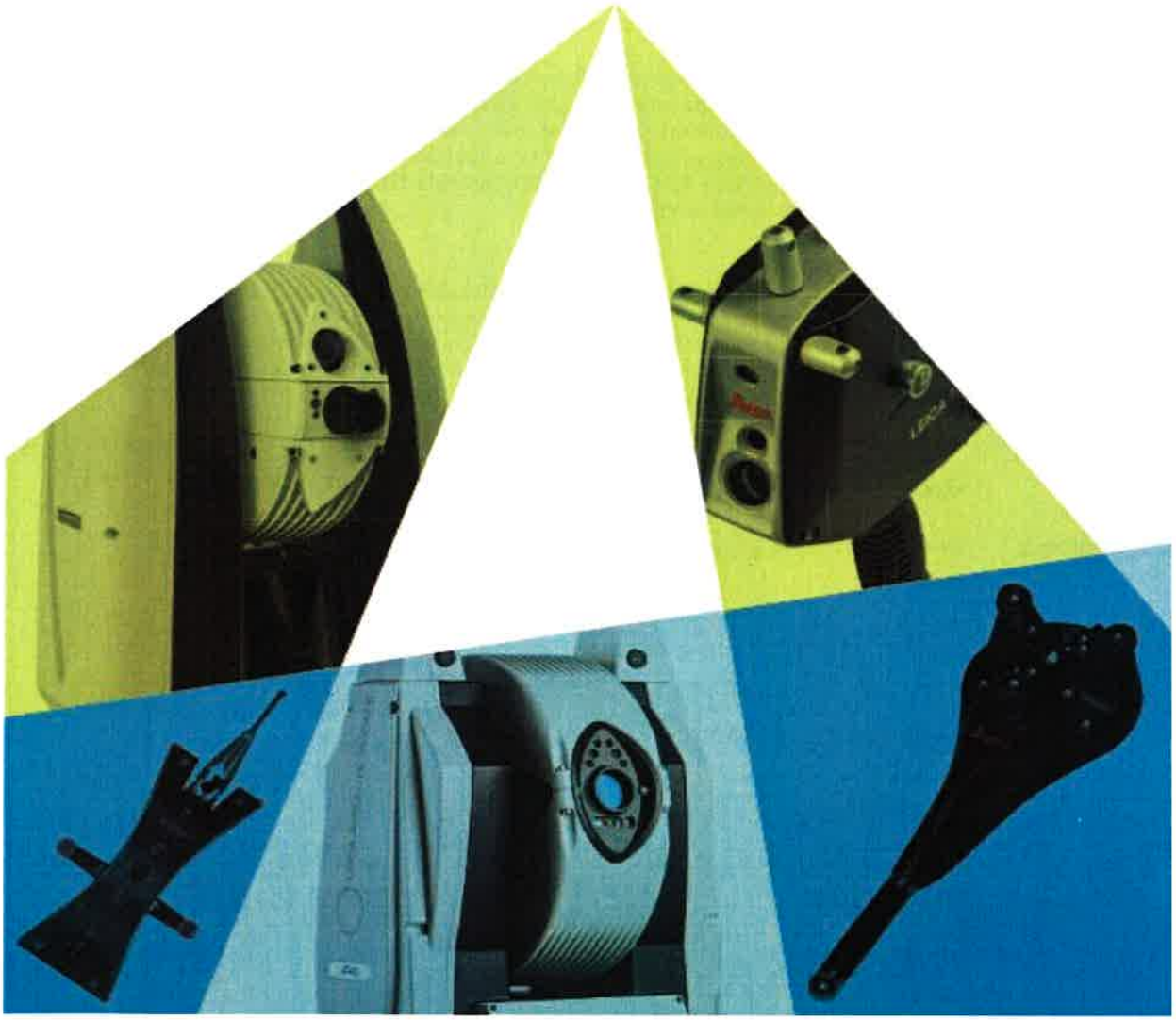
Start Date	Expense Type	Line Qty

CUSTOMER NAME (PRINT)	CUSTOMER SIGNATURE	DATE

HEXAGON
METROLOGY

LEICA GEOSYSTEMS
LASER TRACKER

Service Report and compensation data



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Calibration Certificate Metrology

Calibration Certificate Metrology with measurement values issued by Manufacturer

Product : **Leica Absolute Tracker AT403**
Article Nr.: 576361 with 576360
Serial Nr. : 394712
Asset Nr. : .
Customer : Argonne National Laboratory
9700 S. Cass Avenue, Building 46
Lemont, IL 60439 - USA

Certificate Nr. : 394712-03062022
Calibration Date: 3-Jun-2022
Calibration Due Date: 3-Jun-2023
P.O. Number : 1A-71276
Calibration performed at:
Hexagon Detroit Solution Center

Status : As Left Data
Status Notes: .

Compliance:
Hexagon Manufacturing Intelligence certifies that at the time of shipment the above listed instrument meets or exceeds manufacturer specifications. The calibrations within the certificate/report are traceable through NIST or another National Metrology Institute to the International Systems of Units (SI) and at the environmental condition stated above. The measurement uncertainty was calculated according to NIST Technical Note 1297, where possible, with a coverage factor k=2 which provides a level of confidence of approximately 95%. For all Z-540-1 reports a TUR of 4:1 or better is achieved on all points tested for the above listed instrument unless otherwise stated.

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Hexagon Manufacturing Intelligence quality management system is ANSI/NCSL Z-540-1-1994 and ISO 17025: 2017 Accredited. This certificate shall not be reproduced, except in full, without written consent from Hexagon Manufacturing Intelligence unless otherwise indicated in the remarks section. ANAB ISO 17025 Certification Number: AC-1745.

Uncertainty: The expanded uncertainty of measurement is 14.1 µm (coverage factor k=2)*.

Certificate : We hereby certify that the product described has been tested with the following result:

Compliance - The test results are within the specification of the product.*

** Reported uncertainties are expressed as expanded uncertainty values at an approximately 95% confidence level using a coverage factor of k=2. Statements of compliance are based on test results without considering measurement of uncertainty.*

Hexagon Manufacturing Intelligence 3-Jun-2022

Service Technician Brian Jacobs

QA Signature

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Specifications

a)	Measurement Tolerance for spatial length (MPE) of 2600 mm observed at a distance of:	2 m	≤	± 0.036 mm
		10 m	≤	± 0.103 mm
		20 m	≤	± 0.191 mm
b)	Tolerance for ADM measurement througout working range (Expanded Uncertainty (k=2)):		≤	± 0.015 mm
c)	Repeatability Tolerance for ADM measurement througout the working range (Expanded Uncertainty (k=2)):		≤	± 0.005 mm
d)	Embedded Meteostation Temperature:		≤	± 0.3 °C
e)	Embedded Meteostation Pressure:		≤	± 1.0 hPa
f)	Embedded Meteostation Relative Humidity:		≤	± 5.0 %

Test Results

a)	Maximum observed deviation of measurements at the spatial distance of:	2 m	-0.012 mm
		10 m	-0.003 mm
		20 m	-0.057 mm
b)	Maximum observed Deviation of ADM		0.007 mm
c)	Maximum observed Repeatability of ADM between 1.5 m and 80 m:		0.002 mm
d)	Maximum observed deviation of Temperature:		0.2°C
e)	Maximum observed deviation of Pressure:		0.3 hPa
f)	Maximum observed deviation of Relative Humidity:		1.1 %

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Calibration Certificate Metrology - Appendix

Calibration Certificate Metrology with measurement values issued by Manufacturer

Test Procedure

a) Process Documentation
The verification is performed per procedure: LTSWI-05
Revision Nr. B

b) Spatial Length Measurement (Scale Bar)
The spatial length measurements, respective to coordinate determination are carried out on a scale bar.
The reference distances are determined with equipment traceable to METAS/NIST or other recognized national standards laboratories.

c) Embedded Meteostation (Temperature / Pressure / Humidity)
The reported measuring results are deviations to measurements of a reference meteo station traceable to national standards, which has been calibrated by an accredited body.

Test Equipment

a) Process Documentation
LTSWI-05 Revision Nr. B

b) Spatial Length Measurement (Scale Bar)

	Type:	*Serial No.:*	*Certificate No.:*	*Calibration Date:*	*Due Date:*
Scalebar	Brunson Invar Kit	11-MSP1-492	L190501AB3	15-Jul-2020	14-Jul-2022

c) Embedded Meteostation (Temperature/Pressure/Humidity)

	Type:	*Serial No.:*	*Certificate No.:*	*Calibration Date:*	*Due Date:*
Meteostation	AT-Meteostation (Lufft)	1318	CBRE-3144-TLB	7-Apr-2021	7-Apr-2023

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As Left Data

Measurement Report

a) Spatial Length Measurement (Scale Bar)

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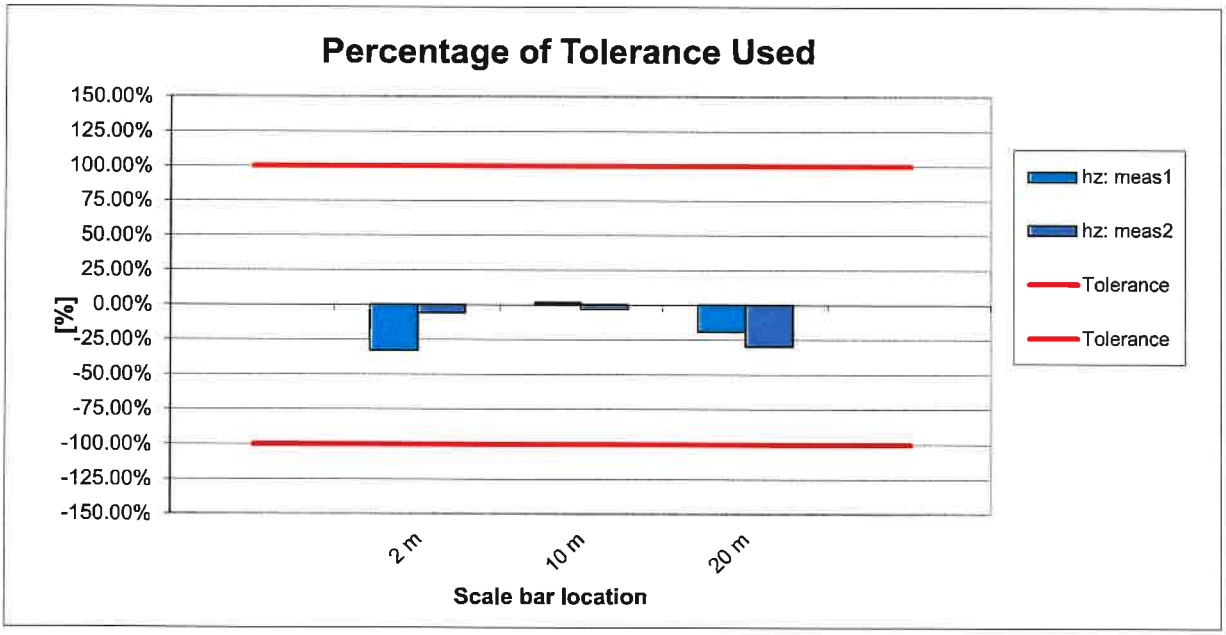
Calibrated by:	Brian Jacobs	Temperature:	20.1 °C
Calibration Date:	3-Jun-2022	Pressure:	977.7 hPa
Calib. Due Date:	3-Jun-2023	Humidity:	38.9 %
Product:	Leica Absolute Tracker AT403	Reflector Serial No.:	15947-22454
Serial No:	394712		

Reference distance [mm] at certification temperatures: 2550.0079
Reference distance corrected [mm] at @ Scale Bar measurements: 2550.0082

Scale bar setup			Actual measurements		Repeatability	Actual minus nominal		Tolerance	
Quadrant [deg]	Distance [m]	Scale bar setup	meas 1 [mm]	meas 2 [mm]	Δ M1 - M2 [mm]	meas 1 [mm]	meas 2 [mm]	[mm]	out-of-tol.
0	2	horizontal	2549.996	2550.006	-0.010	-0.012	-0.002	±0.036	
0	10	horizontal	2550.010	2550.005	0.005	0.002	-0.003	±0.103	
0	20	horizontal	2549.971	2549.952	0.020	-0.037	-0.057	±0.191	



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Measurement Report

b) Distance Measurement (ADM)

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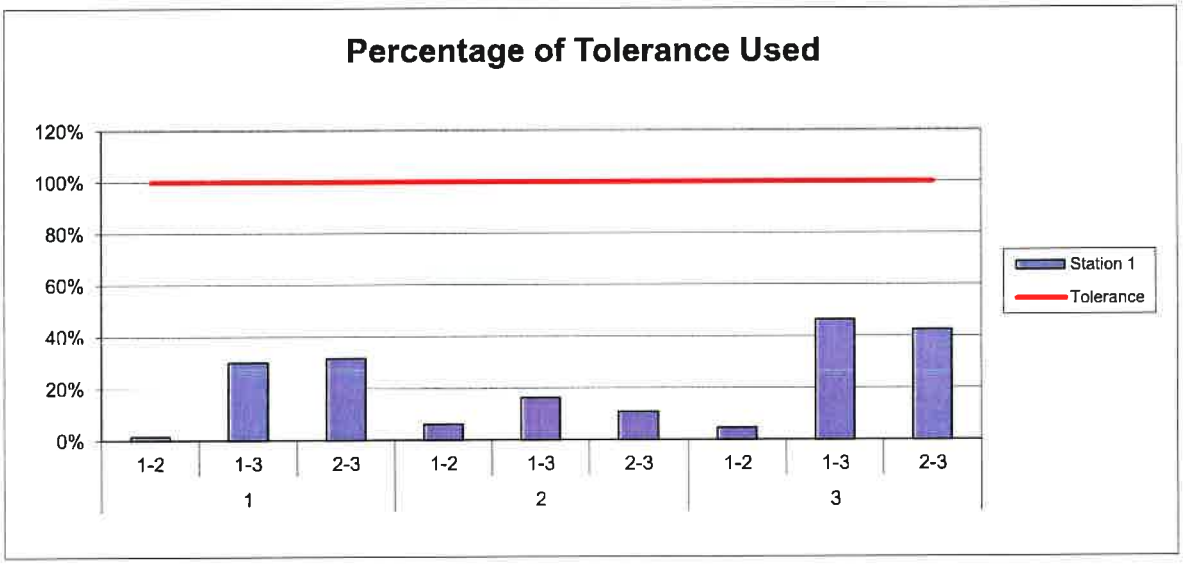
Calibrated by:	Brian Jacobs	Temperature:	20.1 °C
Calibration Date:	3-Jun-2022	Pressure:	977.7 hPa
Calib. Due Date:	3-Jun-2023	Humidity:	38.9 %

Product:	Leica Absolute Tracker AT403	Reflector Serial No.:	15947-22454
Serial No:	394712		

Weighted Averaged Reference Lengths		
from Target	to Target	Length [mm]
1	2	4069.227
1	3	21044.455
2	3	16975.229

Station	from Target	to Target	Length [mm]	Residual [mm]	Tolerance	Percentage	Verdict
1	1	2	4069.227	**0.000**	0.014	1%	**passed**
	1	3	21044.451	**-0.004**	0.015	30%	**passed**
	2	3	16975.224	**-0.005**	0.014	32%	**passed**
2	1	2	4069.226	**-0.001**	0.014	6%	**passed**
	1	3	21044.453	**-0.002**	0.015	16%	**passed**
	2	3	16975.227	**-0.002**	0.015	11%	**passed**
3	1	2	4069.228	**0.001**	0.014	5%	**passed**
	1	3	21044.462	**0.007**	0.015	46%	**passed**
	2	3	16975.235	**0.006**	0.015	42%	**passed**



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Measurement Report

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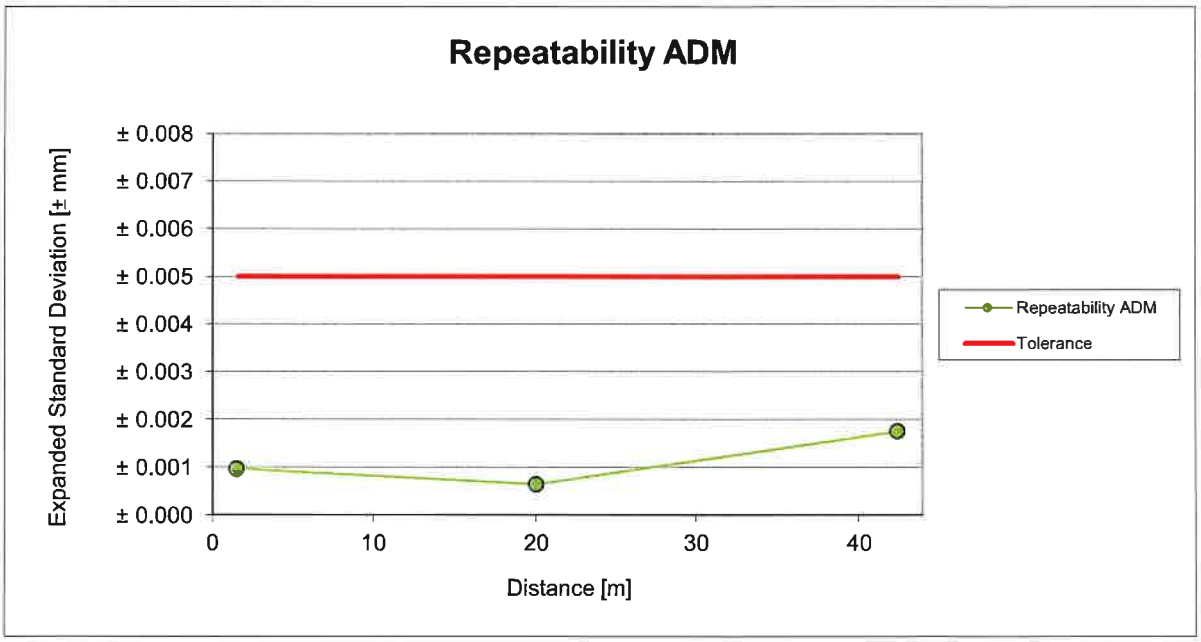
c) Distance Repeatability Measurement (ADM)

Calibrated by:	Brian Jacobs	Temperature:	20.1 °C
Calibration Date:	3-Jun-2022	Pressure:	977.7 hPa
Calib. Due Date:	3-Jun-2023	Humidity:	38.9 %
Product:	Leica Absolute Tracker AT403	Reflector Serial No.:	15947-22454
Serial No:	394712		

Repeatability

Distance approximate [m]	Distance average measured [mm]	Standard Deviation [mm]	**Expanded Standard Deviation (k=2) [mm]**	Verdict
1.5	1503.386	± 0.0005	**± 0.0010**	**passed**
20	20001.835	± 0.0003	**± 0.0006**	**passed**
40	42420.057	± 0.0009	**± 0.0018**	**passed**



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Measurement Report

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d) Embedded Meteostation (Temperature / Pressure / Humidity)

Calibrated by: Brian Jacobs
Calibration Date: 3-Jun-2022
Calib. Due Date: 3-Jun-2023

Product: AT Controller 400
Serial No: 394712
Ext. Temp. Sensor Serial No: .

Results

	Reference value	Actual value	Deviation	Verdict
Temperature Air	20.1 °C	20.3 °C	0.2 °C	**passed**
Temperature Object	0.0 °C	0.0 °C	0.0 °C	**passed**
Pressure	977.7 hPa	978.0 hPa	0.3 hPa	**passed**
Relative Humidity	38.9 %	40.0 %	1.1 %	**passed**

Note: The reference values are the environmental conditions recorded by a reference weather station at the time of the meteo station calibration.
Accuracy of air temperature and relative humidity of the device under test is ensured with connected external air temperature sensor only.

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Hexagon Manufacturing Intelligence helps industrial manufacturers develop the disruptive technologies of today and the life-changing products of tomorrow. As a leading metrology and manufacturing solution specialist, our expertise in sensing, thinking and acting – the collection, analysis and active use of measurement data – gives our customers the confidence to increase production speed and accelerate productivity while enhancing product quality.

Through a network of local service centres, production facilities and commercial operations across five continents, we are shaping smart change in manufacturing to build a world where quality drives productivity. For more information, visit **HexagonMI.com**.

Hexagon Manufacturing Intelligence is part of Hexagon (Nasdaq Stockholm: HEXA B; **hexagon.com**), a leading global provider of information technologies that drive quality and productivity across geospatial and industrial enterprise applications.

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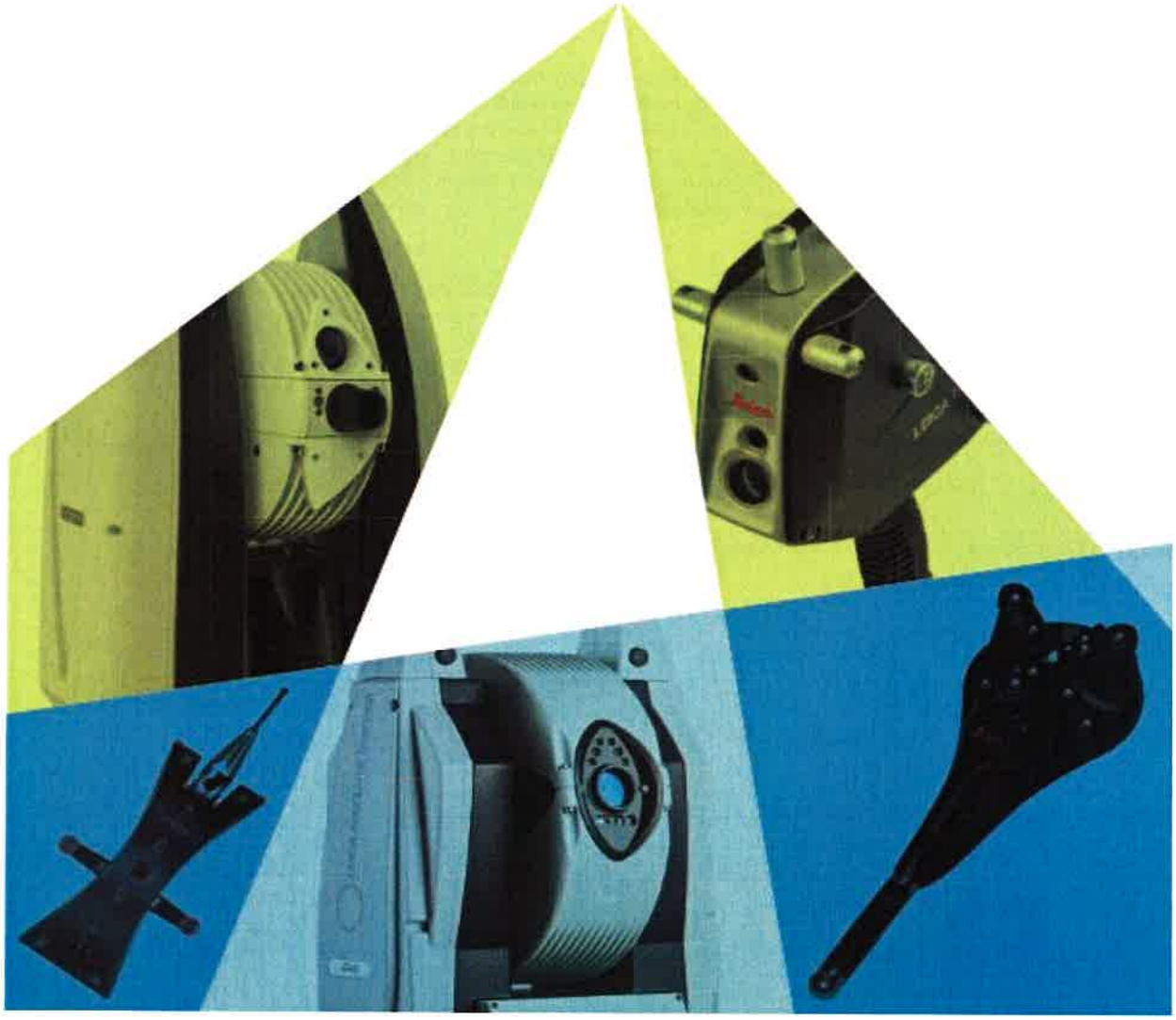
METROLOGY

LEICA GEOSYSTEMS
LASER TRACKER

Service Report and compensation data



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Calibration Certificate Metrology

Calibration Certificate Metrology with measurement values issued by Manufacturer

Product : **Leica Absolute Tracker AT403**
Article Nr.: 576361 with 576360
Serial Nr. : 394712
Asset Nr. : .
Customer : Argonne National Laboratory
9700 S. Cass Avenue, Building 46
Lemont, IL 60439 - USA

Certificate Nr. : 394712-25052022
Calibration Date: 25-May-2022
Calibration Due Date:
P.O. Number : 1A-71276
Calibration performed at:
Hexagon Detroit Solution Center

Status : As Found Data
Status Notes: .

Compliance:
Hexagon Manufacturing Intelligence certifies that at the time of shipment the above listed instrument meets or exceeds manufacturer specifications. The calibrations within the certificate/report are traceable through NIST or another National Metrology Institute to the International Systems of Units (SI) and at the environmental condition stated above. The measurement uncertainty was calculated according to NIST Technical Note 1297, where possible, with a coverage factor k=2 which provides a level of confidence of approximately 95%. For all Z-540-1 reports a TUR of 4:1 or better is achieved on all points tested for the above listed instrument unless otherwise stated.

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Uncertainty: The expanded uncertainty of measurement is 14.1 µm (coverage factor k=2)*.

Certificate : We hereby certify that the product described has been tested with the following result:

Non-Compliance - The test results are not within the specification of the product.*

** Reported uncertainties are expressed as expanded uncertainty values at an approximately 95% confidence level using a coverage factor of k=2. Statements of compliance are based on test results without considering measurement of uncertainty.*

Hexagon Manufacturing Intelligence 25-May-2022

Service Technician – Brian Jacobs

QA Signature

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Specifications

a)	Measurement Tolerance for spatial length (MPE) of 2600 mm observed at a distance of:	2 m :	≤	± 0.036 mm
		10.0 m :	≤	± 0.103 mm
		20.0 m :	≤	± 0.191 mm
b)	Tolerance for ADM measurement througout working range (Expanded Uncertainty (k=2)):		≤	± 0.017 mm
c)	Embedded Meteostation Temperature:		≤	± 0.3 °C
d)	Embedded Meteostation Pressure:		≤	± 1.0 hPa
e)	Embedded Meteostation Relative Humidity:		≤	± 5.0 %

Test Results

a)	Maximum observed deviation of measurements at the spatial distance of:	2 m :	0.007 mm
		10.0 m :	-0.018 mm
		20.0 m :	0.050 mm
b)	Maximum observed Uncertainty of ADM		0.019 mm
c)	Maximum observed deviation of Temperature:		0.0°C
d)	Maximum observed deviation of Pressure:		0.4 hPa
e)	Maximum observed deviation of Relative Humidity:		0.3 %

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Calibration Certificate Metrology - Appendix

Calibration Certificate Metrology with measurement values issued by Manufacturer

Test Procedure

a) Process Documentation
The verification is performed per procedure: LTSWI-05
Revision Nr. B

b) Spatial Length Measurement (Scale Bar)
The spatial length measurements, respective to coordinate determination are carried out on a scale bar.
The reference distances are determined with equipment traceable to METAS/NIST or other recognized national standards laboratories.

c) Embedded Meteostation (Temperature / Pressure / Humidity)
The reported measuring results are deviations to measurements of a reference meteo station traceable to national standards, which has been calibrated by an accredited body.

Test Equipment

a) Process Documentation
LTSWI-05 Revision Nr. B

b) Spatial Length Measurement (Scale Bar)

	Type:	*Serial No.:*	*Certificate No.:*	*Calibration Date:*	*Due Date:*
Scalebar	Brunson Invar Kit	11-MSP1-492	L190501AB3	15-Jul-2020	14-Jul-2022

c) Embedded Meteostation (Temperature/Pressure/Humidity)

	Type:	*Serial No.:*	*Certificate No.:*	*Calibration Date:*	*Due Date:*
Meteostation	AT-Meteostation (Lufft)	1318	CBRE-3144-TLB	7-Apr-2021	7-Apr-2023

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Measurement Report

a) Spatial Length Measurement (Scale Bar)

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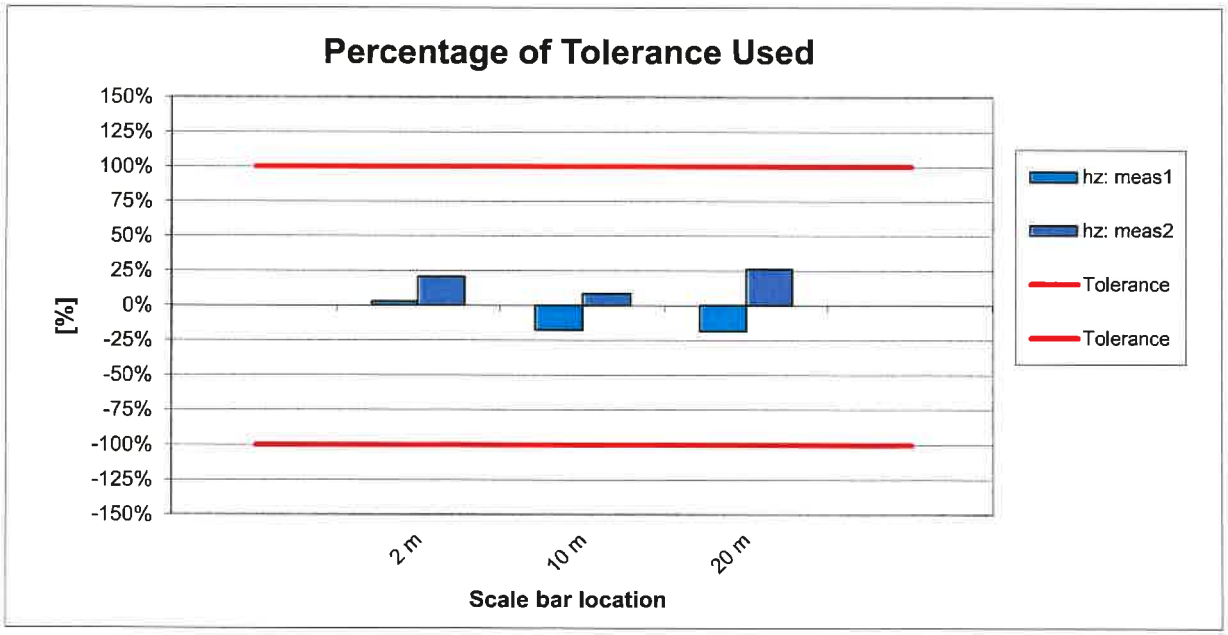
Calibrated by:	Brian Jacobs	Temperature:	19.9 °C
Calibration Date:	25-May-2022	Pressure:	987.6 hPa
Calib. Due Date:		Humidity:	41.7 %
Product:	Leica Absolute Tracker AT403	Reflector Serial No.:	15947-22454
Serial No:	394712		

Reference distance [mm] at certification temperatures: 2550.0079
Reference distance corrected [mm] at @ Scale Bar measurements: 2550.0076

Scale bar setup			Actual measurements		Repeatability	Actual minus nominal		Tolerance	
Quadrant [deg]	Distance [m]	Scale bar setup	meas 1 [mm]	meas 2 [mm]	Δ M1 - M2 [mm]	meas 1 [mm]	meas 2 [mm]	[mm]	out-of-tol.
0	2	horizontal	2550.009	2550.015	-0.006	0.001	0.007	±0.036	
0	10	horizontal	2549.990	2550.016	-0.027	-0.018	0.009	±0.103	
0	20	horizontal	2549.972	2550.057	-0.086	-0.036	0.050	±0.191	



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Measurement Report

b) Distance Measurement (ADM)

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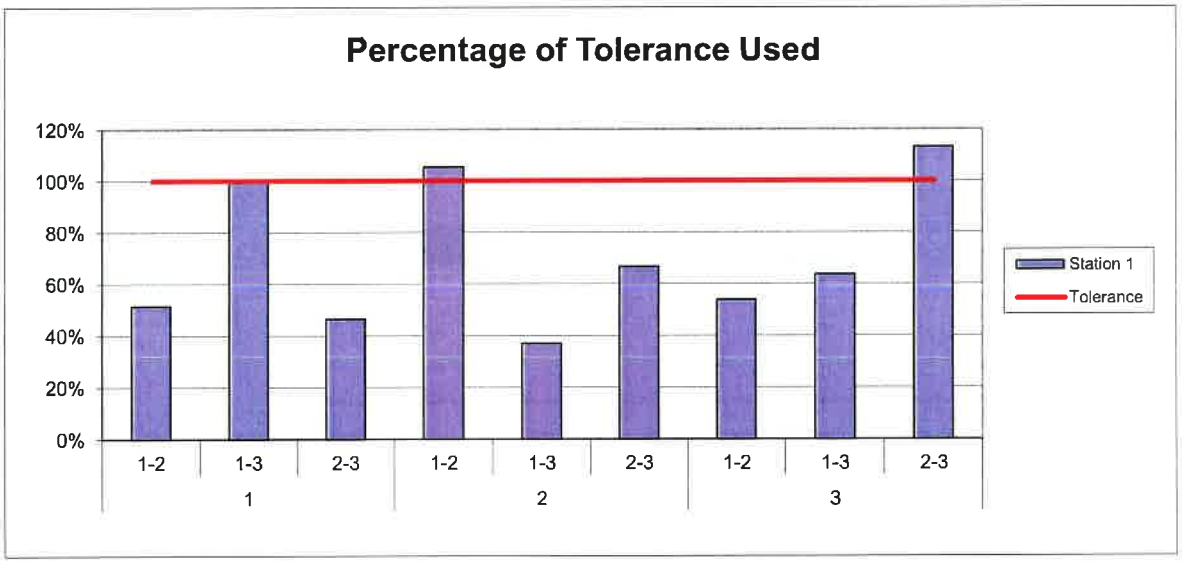
Calibrated by:	Brian Jacobs	Temperature:	19.9 °C
Calibration Date:	25-May-2022	Pressure:	987.6 hPa
Calib. Due Date:		Humidity:	41.7 %

Product:	Leica Absolute Tracker AT403	Reflector Serial No.:	15947-22454
Serial No:	394712		

Weighted Averaged Reference Lengths		
from Target	to Target	Length [mm]
1	2	4069.258
1	3	21044.478
2	3	16975.220

Station	from Target	to Target	Length [mm]	Residual [mm]	Tolerance	Percentage	Verdict
1	1	2	4069.250	**-0.009**	0.017	51%	**passed**
	1	3	21044.461	**-0.017**	0.016	101%	**failed**
	2	3	16975.212	**-0.008**	0.017	46%	**passed**
2	1	2	4069.276	**0.018**	0.017	105%	**failed**
	1	3	21044.484	**0.006**	0.016	37%	**passed**
	2	3	16975.209	**-0.011**	0.017	67%	**passed**
3	1	2	4069.249	**-0.009**	0.017	54%	**passed**
	1	3	21044.488	**0.010**	0.016	64%	**passed**
	2	3	16975.240	**0.019**	0.017	113%	**failed**



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Measurement Report

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d) Embedded Meteostation (Temperature / Pressure / Humidity)

Calibrated by: Brian Jacobs
Calibration Date: 25-May-2022
Calib. Due Date:

Product: AT Controller 400
Serial No: 394712
Ext. Temp. Sensor Serial No: .

Results

	Reference value	Actual value	Deviation	Verdict
Temperature Air	19.9 °C	19.9 °C	0.0 °C	**passed**
Temperature Object	0.0 °C	0.0 °C	0.0 °C	**passed**
Pressure	987.6 hPa	988.0 hPa	0.4 hPa	**passed**
Relative Humidity	41.7 %	42.0 %	0.3 %	**passed**

Note: The reference values are the environmental conditions recorded by a reference weather station at the time of the meteo station calibration.
Accuracy of air temperature and relative humidity of the device under test is ensured with connected external air temperature sensor only.

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Through a network of local service centres, production facilities and commercial operations across five continents, we are shaping smart change in manufacturing to build a world where quality drives productivity. For more information, visit **HexagonMI.com**.

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- COORDINATE MEASURING MACHINES
- 3D LASER SCANNING
- SENSORS
- PORTABLE MEASURING ARMS
- DRIVERS
- LASER TRACKERS & STATIONS
- VAULT SENSOR & OPTICAL SYSTEMS
- WHITE LIGHT SCANNERS
- METROLOGY SOFTWARE SOLUTIONS
- CAD / CAM
- STATISTICAL PROCESS CONTROL
- AUTOMATED APPLICATIONS
- MICROMETERS, CALIPERS AND GAUGES

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Ship to Address:
46444 Hexagon Way
Novi, MI 48377
PH: 248-449-9403
PortableService.us@hexagon.com

PLEASE INCLUDE COMPLETED CHECKLIST IN THE TRACKER SHIPPING CASE

The following must be filled out by the Customer:

Company Name, Serial Number, RMA and The Appropriate Checklist Below

Company Name: ARGONNE NATIONAL LABORATORY

Leica Tracker Serial Number: 394712

Return Authorization Number (RMA): 90516

Note:

1. **We *do not* ship Trackers in crates**. If a Tracker is received in a crate, the crate will be descarded. We do not have room to store any crates. If you must ship your Tracker system in a crate, you will need to notify us of that. You will be required to provide us with your Fed Ex Freight Account information.
2. Please ship the Leica Tracker within the AT9X0 transport container strapped to a pallet
3. Additional equipment included with the Leica Tracker will only be tested at the customer request.
4. Third party software dongles i.e. PC-Dmis are not required unless software installation or computer testing is requested.
5. Please only include the AT9x0 Lithium batteries if there is a suspected problem with their function

This Portion is to be filled out by Hexagon's Shipping and Receiving Personnel Only:

RECEIVING: Did customer include checklist? (Yes) | No

Handling Units 1 of 1

Pallet X Cardboard Box____ As Is____ Hand Delivered____ White Case____

1. Please indicate any damages that may have occurred during shipping and contact a supervisor immediately. If damage has occurred, take photos and include in the customers file.

2. Checklist discrepency between items listed and items received? YES | NO

Hexagon Receiving Clerk Signature: KEV JOHN Date: 8/24/22

All items on inventory checklist have been verified, are neatly packaged, and the "Returned" column is checked off appropriately. The Proper Documentation is completed and correct.

Hexagon Shipping Clerk Signature: Brian Jenkins Date: 6/3/22 (GB)

To be completed upon CUSTOMER PICK-UP ONLY:
The tracker and all included accessories are present and ready for pick up

Customer Signature: _____ Date: _____

Inventory Checklist for Leica Trackers

Complete this section for all AT40x:

* = Mandatory Item for Calibration, If Owned By Customer.

			Customer Shipping	Hexagon Receiving	Hexagon Shipping	
*	**Tracker:**	SN: 394712	(Y/N)	(Y/N)	(Y/N)	
*	**Controller:**	SN: 394712	(Y/N)	(Y/N)	(Y/N)	
*	**B-Probe**	SN:	(Y/N)	(Y/N)	(Y/N)	

AT40x Accessories: NOT REQUIRED

Power supply	(Y/N)	(Y/N)	(Y/N)	
External temp sensor	(Y/N)	(Y/N)	(Y/N)	
Sensor cable	(Y/N)	(Y/N)	(Y/N)	
Battery	(Y/N)	(Y/N)	(Y/N)	QTY:
Tribrach	(Y/N)	(Y/N)	(Y/N)	
AT400 Remote	(Y/N)	(Y/N)	(Y/N)	
Battery Charger	(Y/N)	(Y/N)	(Y/N)	QTY:
Controller Strap	(Y/N)	(Y/N)	(Y/N)	
Other	(Y/N)	(Y/N)	(Y/N)	

B-Probe Accessories:

Batteries	(Y/N)	(Y/N)	(Y/N)	Qty:
Stylus compensation tool	(Y/N)	(Y/N)	(Y/N)	
Stylus	(Y/N)	(Y/N)	(Y/N)	**You must inlcude probe Tip (110mm) with B-Probe**
Battery Charger	(Y/N)	(Y/N)	(Y/N)	
Other	(Y/N)	(Y/N)	(Y/N)	

Computer: NOT REQUIRED OR RECOMMENDED

Laptop/Desktop	(Y/N)	(Y/N)	(Y/N)	Serial #:
Power Supply	(Y/N)	(Y/N)	(Y/N)	Login:
Carrying Case	(Y/N)	(Y/N)	(Y/N)	Password:
Third Party Software Dongle	(Y/N)	(Y/N)	(Y/N)	Software: Dongle Serial #: