LEICA ABSOLUTE TRACKER, THEODOLITES AND LASER STATION PRODUCTS
CATALOGUE VERSION 1.5
INTRODUCTION

This catalogue contains the complete range of products and accessories available for Leica Absolute Trackers, Industrial Theodolites & Laser Stations.

Regardless of your particular application and the Hexagon Manufacturing Intelligence portable products you use, we have you covered.

All of our products and accessories offer the same premium quality and practical design you would expect from a Swiss made product.

If you have any questions about our products or accessories, please contact your Hexagon sales person to receive competent guidance and make an appropriate purchasing decision.
CONTENT

Leica Absolute Tracker
- Leica Absolute Tracker AT930
- Leica Absolute Tracker AT960-MR
- Leica Absolute Tracker AT960-LR
- Leica Absolute Tracker AT960-XR
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- Leica Absolute Scanner LAS and LAS-XL
- Accessories for Leica Absolute Scanner LAS and LAS-XL
- Leica T-Scan 5 and Accessories
- Leica T-Probe
- Styli and Extensions
- Compensation Tools
- Power Cables and Battery

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- Remote Control Equipment
- Compensation and Field Check Tools
- Measuring Cart and Shipping Container

Leica Absolute Tracker AT403
- Leica Absolute Tracker AT403
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- Leica B-Probe with Accessories
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- Tripleprism Reflector
- Tape Target Reflector
- Special Reflectors and Holders
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- Targets for multiple Theodolite Systems
- Compensation and Field Check Tools

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- Leica TM6100A motorized Industrial Theodolite
- Leica TDRA6000 motorized Industrial Laser Station

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- Additional Options
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- Battery Chargers
- Data Storage and Data Transfer
- Power Cables
- Data Transfer Cables and Converter
- Tripods
- Tribrachs
- Eyepieces, Filters, DL2 Lasers Targets
- Autocollimation Accessories
- Cables

Metrology Software
- Spatial Analyzer
- DCP Solutions
- RoboDyn

Hexagon Service Centres for Laser Trackers

Hexagon Precision Centres
LEICA ABSOLUTE TRACKER

576861 Leica Absolute Tracker AT930
AT930 with Absolute Interferometer Distance range up to 80 m.
The system consists of:
- AT930 incl. transportation case
- AT Controller (576871)
- MPS21, Power Supply Unit (576873)
- MCS11, Sensor Cable 1.5m (576885)
- AT Quick Release Mount incl. Mandrel (576338)
- MCA18, External Temperature Sensor 2m (576888)
- Red-Ring Reflector (RRR) 1.5" (575784)
- MSI26, Universal Stand Fixture (576895)
- MAT33, Optical Cleaning Kit (576898)
- Protective Sensor Cover (827057).

576864 Leica Absolute Tracker AT960-MR
AT960-MR with Absolute Interferometer Distance range up to 20 m and probing range up to 10 m.
The system consists of:
- AT960-MR incl. transportation case
- AT Controller (576871)
- MPS21, Power Supply Unit (576873)
- MCS11, Sensor Cable 1.5 m (576885)
- AT Quick Release Mount incl. Mandrel (576338)
- MCA18, External Temperature Sensor 2 m (576888)
- Red-Ring Reflector (RRR) 1.5" (575784)
- MSI26, Universal Stand Fixture (576895)
- MAT33, Optical Cleaning Kit (576898)
- Protective Sensor Cover (827057).

576863 Leica Absolute Tracker AT960-LR
AT960-LR with Absolute Interferometer Distance range up to 80 m and probing range up to 20 m.
Same system configuration as AT960-MR.

576862 Leica Absolute Tracker AT960-XR
AT960-XR with Absolute Interferometer Distance range up to 80 m and Probing range up to 30 m.
Same system configuration as AT960-MR.
LEICA ABSOLUTE TRACKER

SCANNING BUNDLE

Leica Absolute Tracker AT960-SR
Absolute Interferometer Distance range up to 6m and Scanning range up to 5m, only available in a scanning bundle

6012678 AT960-SR & LAS Bundle
The system consists of:
- AT960-SR (576865)
- Leica LAS (576908)

6013319 AT960-SR & LAS-XL Bundle
The system consists of:
- AT960-SR (576865)
- Leica LAS-XL (576943)

6012677 AT960-SR & Leica T-Scan 5 Bundle
The system consists of:
- AT960-SR (576865)
- Leica T-Scan 5 (576187)

LEICA ABSOLUTE TRACKER

CONTROLLER

576871 Leica Absolute Tracker Controller
AT Controller is compatible with Leica Absolute Tracker AT930/AT960 series.
The 576873 MPS21 Power Supply Unit and 576895 MSI26, Universal ATC Stand Fixture has to be ordered separately.

576895 MSI26, Universal ATC Stand Fixture
The Universal AT Controller Stand Fixture with reusable Velcro strap (0.52 m) is compatible with:
- AT Controller (576871, 576368)
- MPB25, Battery external Li-Ion 37V/8.1Ah (576875).
**Leica Absolute Scanner LAS**

The LAS Scanner system consists of:
- LAS (576908), incl. Certificate
- LASC-211 Scanner Controller (576909)
- MCA62, Scanner Sensor Cable, 10 m (576911)
- MPS21, Power Supply Unit (576873)
- LAN-cable RJ-45, 5 m (575899)
- MCA47, Leica T-Scan Trigger/Probe Cable 2 m (576903)
- MAC64, Reference Sphere d=30 mm (576913)
- MAC74, Reference Sphere Support (576923)
- MAP65, Horizontal Holder (576914)
- MTC61, LAS Transport Case (576910)

**Leica Absolute Scanner LAS-XL**

The system consists of:
- LAS-XL (576943), incl. Certificate
- LASC-211 Scanner Controller (576909)
- MCA63, Scanner Sensor Cable, 20 m (576912)
- MPS21, Power Supply Unit (576873)
- LAN-cable RJ-45, 5 m (575899)
- MCA47, Leica T-Scan Trigger/Probe Cable 2 m (576903)
- MAC89, Reference Sphere d=90 mm (576947)
- MAP65, Horizontal Holder (576914)
- MTC85, LAS-XL Trolley Case (576944)
576955  **LAS & LAS-XL Scanning Bundle**

The Leica Absolute Scanning bundle consists of:
- LAS (incl. Certificate)
- LAS-XL Certificate)
- LASC-211 Scanner Controller (576909)
- MCA63, Scanner Sensor Cable, 20 m (576912)
- MPS21, Power Supply Unit (576873)
- LAN-cable RJ-45, 5m (575899)
- MCA47, T-Scan Trigger/Probe Cable 2 m (576903)
- MAC89, Reference Sphere d=90 mm (576947)
- 2x MAP65, Horizontal Holder (576914)
- MAC64, Reference Sphere d=30 mm (576913)
- MAC74, Reference Sphere Support (576923)
- MTC90, LAS / LAS-XL Trolley Case (576949)
LEICA ABSOLUTE SCANNER LAS ACCESSORIES

**MTC61, LAS Transport Case**
The Transport Case can hold:
- LAS (576908)
- LASC-211 Scanner Controller (576909)
- MCA62, Scanner Sensor Cable, 10 m (576911)
- Power Supply Unit (576873)
- LAN-cable RJ-45, 5 m (575899)
- MCA47, Leica T-Scan Trigger/Probe Cable 2 m (576903)
- MAC64, Reference Sphere d = 30 mm (576913)
- MAC74, Reference Sphere Support (576923)
- Horizontal holder (576914)
- Certificate

L = 49.6 cm, W = 33.0 cm, H = 25.6 cm
Empty Transport Container only.
Accessories to be ordered separately.

**MTC73, LASTrolley Case**
The Trolley Case can hold:
- LAS (576908)
- LASC-211 Scanner Controller (576909)
- MCA62, Scanner Sensor Cable, 10 m (576911)
- MPS21, Power Supply Unit (576873)
- LAN-cable RJ-45, 5 m (575899)
- MCA47, Leica T-Scan Trigger/Probe Cable 2 m (576903)
- MAC64, Reference Sphere d = 30 mm (576913)
- MAC74, Reference Sphere Support (576923)
- MAP65, Horizontal holder (576914)
- MAV67, Scanner Controller Feet Set (576915)
- Leica T-Probe III (576186)
- Leica T-Probe Styli Kit (576231)
- MPB25, Battery external Li-Ion 37 V/8.1 Ah (576875)

L = 62.5 cm, W = 50 cm, H = 36.6 cm
Empty Transport Container only.
Accessories to be ordered separately.
LEICA ABSOLUTE SCANNER LAS-XL
ACCESSORIES

576944  MTC85, LAS-XL Trolley Case
The Transport Case can hold:
- LAS-XL Absolute Scanner (576943)
- LASC-211 Scanner Controller (576909)
- MCA63, Scanner Sensor Cable, 20m (576912)
- MPS21, Power Supply Unit (576873)
- LAN-cable RJ-45, 5m (575899)
- MCA47, T-Scan Trigger/Probe Cable 2m (576903)
- MAC87, Reference Sphere d=90mm (576947)
- MAP65, Horizontal Holder (576914)
L=49.6 cm, W=33.0 cm, H=25.6 cm
(L=19.53", W= 12.99", H=10.08")
Empty Transport Container only. Accessories to be ordered separately.

576949  MTC90, LAS / LAS-XL Trolley Case
The Transport Case can hold:
- 1x LAS-XL Absolute Scanner (576943)
- 1x LAS Absolute Scanner (576908)
- 1x LASC-211 Scanner Controller (576909)
- MCA63, Scanner Sensor Cable, 20m (576912)
- MPS21, Power Supply Unit (576873)
- LAN-cable RJ-45, 5m (575899)
- MCA47, T-Scan Trigger/Probe Cable 2m (576903)
- 2x MAP65, Horizontal holder (576914)
- MAC64, Reference Sphere d=30mm Set (6010685)
- MAC87, Reference Sphere d=90mm (576947)
- MPB25, Battery external Li-Ion 37V/8.1Ah (576875)
- Leica T-Probe III (576186)
- Red-Ring Reflector (RRR) 1.5" (575784)
L=62.5 cm, W=50 cm, H=36.6 cm
(L=24.60", W= 19.70", H=14.40")
Empty Transport Container only. Accessories to be ordered separately.

576947  MAC87, Reference Sphere d=90mm
The Reference Sphere is designed for field checks and alignments of Scanning systems.
Consists of:
- Ref. Sphere d=90 mm (aluminum) with support
- Sphericity/Roundness 0.030 mm
- Weight: 12000g
- Certificate
LEICA ABSOLUTE SCANNER LAS AND LAS-XL ACCESSORIES

576911  **MCA62, Scanner Sensor Cable, 10 m**
The MCA62 Scanner Sensor Cable connecting the LAS Absolute Scanner (576908) to LASC-211 Scanner Controller (509).

576912  **MCA63, Scanner Sensor Cable, 20 m**
The MCA63 Scanner Sensor Cable connecting the LAS Absolute Scanner (576908) to LASC-211 Scanner Controller (576909).

576945  **MCA86, Scanner Sensor Cable, 30 m**
The MCA86 Scanner Sensor Cable connecting the LAS Absolute Scanner (576908, 576943) to LASC-211 Scanner Controller (576909).

576903  **MCA47, Trigger/Probe Cable 2 m**
Connects AT960 Tracker Controller with Leica T-Scan 5 or LASC-211 Controller unit.
MAP65, Horizontal Scanner Holder
The mAP65, Horizontal Scanner Holder is compatible with LAS Absolute Scanner (576908)

MAC64, Reference Sphere d=30 mm Set
The set consists of:
- 1x mAC64, Reference Sphere d=30 mm (576913) incl. Certificate
- 1x mAC77, Reference Sphere Support (576923)
Remark:
The Reference Sphere Support has a central UNC 5/8"-11 thread, which is compatible with our stands (MST36, AT21, AT28). In addition there are 2 universal 7 mm bore holes.

MAC64, Reference Sphere d=30 mm
The Reference Sphere is designed for field checks and alignments of Scanning systems.
Consists of:
- Reference Sphere d=30 mm
- Certificate

MAC74, Reference Sphere Support
The Reference Sphere Support is designed to hold the mAC64, Reference Sphere d=30 mm (576913). It has a central UNC 5/8"-11 thread, which is compatible with our tripods (576901 MST36, 575483 AT21, 575484 AT28). In addition there are 2 universal 7 mm bore holes.
LEICA T-SCAN 5 WITH ACCESSORIES

576187  Leica T-Scan 5
The T-Scan 5 Line Scanner system consists of:
- T-Scan 5 incl. transportation case
- Scanner Sensor Cable 10 m
- Scanner Controller incl. power cable
- MCA47, Trigger/Probe Cable 2 m (576903)
- LAN Cable 2 m (RJ-45)
- MAP39, Horizontal Scanner Holder (576188)
- MAC41, Reference Sphere Ø 50 mm (576190)
- T-Collect Interface Software.

576193  MCA38, T-Scan Sensor Extension Cable 10 m
With the MCA38 T-Scan Sensor Extension Cable, connecting the original T-Scan 5 Sensor cable, provides an extension of 10m to a total T-Scan 5 sensor cable length configuration of 20 m (10 m + 10 m).

576903  MCA47, Trigger/Probe Cable 2m
Connects AT960 Tracker Controller with T-Scan 5 or LAS-20-8 Controller unit.
MAP39, Horizontal Scanner Holder

MAC41, Reference Sphere Ø 50 mm
Reference Sphere ø 50 mm with magnetic base for field check and alignment checks of the T-Scan system.
LEICA T-PROBE

576186  **Leica T-Probe**

3rd generation Leica T-Probe III is a portable CMM solution for armless and wireless probing. The handy and light weight measurement probe with configurable function buttons allows measurements in small and large measurement volumes with minimal preparation time. The measurement range of the Leica T-Probe III is up to 30 m in all directions.

The T-Probe III configuration consists of:
- T-Probe III (576186) incl. Certificate and Transport Case
- T-Probe Stylus Adaptor –M5 (576212)
- Ruby Ball Stylus d=6 mm –M5 (576221)
- 2x Stylus Tool for M5 Threaded Styli (576225)
- MAC34, T-Probe Stylus Compensation Tool (576899)
- T-Probe Battery Charger (734195)
- 2x T-Probe Spare Battery (575983).

**Recommended stylus kit for T-Probe.**

The Styli Kit contains the following content:
- Scribe stylus r=0.1 mm - M2 (576219)
- Ruby ball stylus d=3 mm - M5 (576220)
- Ruby ball stylus d=6 mm - M5 (576221)
- Ceramic hemispherical stylus d=0.5 in - M5 (576143)
- Ceramic hemispherical stylus d=1.5 in - M5 (576144)
- Stylus extension 100 mm - M5 - carbon fibre - stem d=20 mm (576213)
- Stylus extension 200 mm - M5 - carbon fibre - stem d=20 mm (576214)
- Stylus extension 40 mm - M5 - carbon - stem d=11 mm (576217)
- 2x T-Probe stylus adaptor - M5 with precision quick release with self-identification (576212)
- 2x Stylus Tool for M2-M3 threaded styli (576223)
- 2x Stylus Tool for M5 threaded styli (576225)
- Stylus Adaptor M5-M2 (576226)
## STYLI & EXTENSIONS

<table>
<thead>
<tr>
<th>576231</th>
<th><strong>Leica T-Probe Styli Kit</strong></th>
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<tbody>
<tr>
<td></td>
<td>Recommended stylus kit for T-Probe. The Styli Kit contains the following content:</td>
</tr>
<tr>
<td></td>
<td>- Scribe stylus r=0.1 mm - M2 (576219)</td>
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<tr>
<td></td>
<td>- Ruby ball stylus d=3 mm - M5 (576220)</td>
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<tr>
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<td>- Ruby ball stylus d=6 mm - M5 (576221)</td>
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<tr>
<td></td>
<td>- Ceramic hemispherical stylus d=0.5 in - M5 (576143)</td>
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<tr>
<td></td>
<td>- Ceramic hemispherical stylus d=1.5 in - M5 (576144)</td>
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<tr>
<td></td>
<td>- Stylus extension 100 mm - M5 - carbon fibre - stem d=20 mm (576213)</td>
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<td>- Stylus extension 200 mm - M5 - carbon fibre - stem d=20 mm (576214)</td>
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<tr>
<td></td>
<td>- Stylus Adaptor M5-M2 (576226)</td>
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<table>
<thead>
<tr>
<th>576211</th>
<th><strong>Leica T-Probe Styli Kit Case</strong></th>
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<tbody>
<tr>
<td></td>
<td>For standard configuration (empty).</td>
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</table>
### Leica T-Probe Stylus Adaptor – M5
Precision quick release adaptor for T-Probe styli to remove and attach styli without re-calibration. The stylus adaptor has built in intelligence to support stylus self identification.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>576212</td>
<td>Leica T-Probe Stylus Adaptor – M5</td>
</tr>
</tbody>
</table>

### Punch Tool – M5
The Punch Tool is an accessory for the Leica T-Probe, it is a stylus that is used for laying out scribe lines (by punching) on the object for the next following manufacturing process.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>576403</td>
<td>Punch Tool – M5</td>
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</tbody>
</table>

### Tip
Replacement Tip to Punch Tool 576403

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>576408</td>
<td>Tip</td>
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</tbody>
</table>

### Stylus Extension
- **Stylus Extension 100 mm – M5**
  - carbon fibre - stem ø 20 mm
- **Stylus Extension 200 mm – M5**
  - carbon fibre - stem ø 20 mm
- **Stylus Extension 400 mm – M5**
  - carbon fibre - stem ø 20 mm
- **Stylus Extension 600 mm – M5**
  - carbon fibre - stem ø 20 mm
576217 Stylus Extension 40 mm – M5
carbon - stem Ø 11 mm

576218 Stylus Extension 100 mm – M5
carbon - stem Ø 11 mm

576219 Scribe Stylus – M2
r=0.1 mm

576220 Ruby Ball Stylus – M5
Ø 3 mm

576221 Ruby Ball Stylus – M5
Ø 6 mm

576248 Cylindrical Stylus 22.5 mm – M2
Ø 3 mm

576222 Edge Stylus – m5
comes with Edge Sphere 0.5”, magnetic Stylus m5 and Compensation Sphere 0.5”

576223 Stylus Tool for M2 and M3 threaded styli

576224 Stylus Tool for M4 threaded styli

576225 Stylus Tool for M5 threaded styli

576226 Stylus Adaptor M5 – M2
<table>
<thead>
<tr>
<th>Reference Number</th>
<th>Description</th>
<th>AT403</th>
<th>AT930</th>
<th>AT960</th>
<th>TDRA6000</th>
<th>TM6100A</th>
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<tbody>
<tr>
<td>576227</td>
<td><strong>Stylus Adaptor M5–M4</strong></td>
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<tr>
<td>576228</td>
<td><strong>Stylus Adaptor M4–M5</strong></td>
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<tr>
<td>576143</td>
<td><strong>Ceramic Hemispherical Stylus M5</strong></td>
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<tr>
<td>576144</td>
<td><strong>Ceramic Hemispherical Stylus M5</strong></td>
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### Compensation Tools

<table>
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<tr>
<th>Reference Number</th>
<th>Description</th>
<th>AT403</th>
<th>AT930</th>
<th>AT960</th>
<th>TDRA6000</th>
<th>TM6100A</th>
</tr>
</thead>
<tbody>
<tr>
<td>576899</td>
<td><strong>MAC34, T-Probe Stylus Compensation Tool</strong></td>
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<td></td>
<td>The MAC34 is used for on-site T-Probe Stylus compensations of various styli configurations. The MAC34 can be extended for Shank-Stylus with the T-Probe Stylus Shank Compensation Tool (576247).</td>
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<tr>
<td>576900</td>
<td><strong>MAC35, Magnetic Device for MAC34</strong></td>
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<td>On the MAC35 Magnetic Device the MAC34 T-Probe Stylus Compensation Tool can be fixed. The MAC35 holds on any magnetic surface. Magnetic force can be switched on and off. The 576899 MAC34 T-Probe Stylus Compensation Tool needs to be ordered separately.</td>
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</tbody>
</table>
**Leica T-Probe Stylus Shank Compensation Tool**
The MAC57 T-Probe Stylus Shank Compensation-Tool is an accessory to compensation cylindrical probe stylus. The MAC57 accessory is mounted to the 576899 MAC34, T-Probe Stylus Compensation Tool.

**POWER CABLES AND BATTERY**

575972  **Cable Leica T-Probe, 10 m**
Reserve or replacement cable 10 m for the Leica T-Probe

575973  **Cable Leica T-Probe, 20 m**
Reserve or replacement cable 20 m for the Leica T-Probe

576185  **Cable Leica T-Probe, 50 m**
Reserve or replacement cable 50 m for the Leica T-Probe

575983  **Leica T-Probe Replacement Battery**

734195  **Leica T-Probe Battery Charger**
ACCESSORIES

STANDS, TRIPODS & INTERFACES

6009768  MST27, Stand Set
The set consists of:
- 1x MST27, Stand Tube Extension (576881)
- 1x Leica Tracker Stand (575997).

576901  MST36, Portable metrology Tripod (Carbon)
Designed for Leica Absolute Tracker and Absolute Arms. The MST36 has the following features and deliverables:
- Collapsible tripod-type with carbon legs
- Integrated bulls eye level
- 2x feet types (point and pad feet) incl.
- 1x Instrument adapter for AT930/960 or Absolute Arms (3.5”x8 thread)
- 1x Instrument adapter for AT40x and TPS6000 (5/8” thread)
- 3x integrated fixture positions for AT Controllers (576871, 576368) or MPB25,
Battery external Li-Ion 37V/8.1Ah (576875)
- Adjustable Height: 83 - 118 cm (32.6 - 46.5”)
- Weight: 14.2 kg (31.3 lb).

576904  MAS52, Tripod Wheel Assembly Kit
A wheel assembly kit is available for additional portability for the MST36 Tripod (576901). The wheels are engaged and disengaged simply by unlocking the telescoping leg and rotating it, putting the wheel in an upper or lower position. Remark: The wheel options must be installed at the factory. Please order the wheel assembly kit together with the tripod.
MAS70, Tripod Leveling Kit
Utilise the Tripod Leveling Kit on the MST36 Tripod (576901) when measurements require a 3D device (such as a laser tracker) to establish a gravity-based coordinate system. Installation requires a simple hand adjustment to insert the leveling screw above the point or pad foot on each leg. The compact design adds only 17mm of leg length in the retracted position while providing a large 19mm precision adjustment range. A knurled sleeve provides the delicate touch needed to set level, eliminating any awkward locking mechanisms to disturb the instrument orientation. The all metal construction assures dependable operation in any measurement environment. Sold in sets of three (3) and weighs 0.3 kg each.
Note: the 576904 Wheel Assembly Kit will not operate with the Tripod leveling Kit installed.

Aluminium Tripod AT08
For easy demos, increased portability and reduction of total system weight. Aluminium Tripod for AT Laser Tracker with 3.5”x8 thread interface. The tripod interface is compatible with 576338 AT Quick Release Mount.
Tripod height (working position): 815 mm (fix)
Dimensions: 25x25x100 cm (folded)
Weight: 10 kg (without AT Quick Release Mount)
Special feature: Cable fixation
Note: For best stability and accuracy it is still recommended to use the standard Tracker stand and stand extension. Adapter 577261 from Hubbs required for AT40x sensors.

AT Quick Release Mount
AT Quick release for mounting a AT Laser Tracker’s AT9x0 and AT901 on 576337 AT Stand Extension, 576336 AT Mounting Plate or any other compatible instrument stand with 3.5”x8 thread adapter.
576336  **AT Mounting Plate**
Allows to mount the AT Laser Trackers onto machine beds. The AT Mounting Plate does not include 576338 AT Quick Release Mount.

576339  **AT Magnetic Mount**
Allows to mount the AT Laser Trackers onto a magnetic surface. The AT Magnetic Mount does not include 576338 AT Quick Release Mount and 576336 AT Mounting Plate.

576940  **MAS80, Wall Mount Fixture 0°/180°**
MAS80 fixture for upright or inverted adaptation of AT sensors onto concrete walls or structures. Adaptation of Leica Quick Release for AT9x0 or 5/8" thread for AT40x sensors. Integrated safety lever for Quick Release handle.
Fixture Content:
- Installation Instruction
- Wall Mount MAS80
- Set of screws for adaptation of Quick Release
- Set of screws, washers and heavy duty anchors for concrete walls
- Set of cable ties for sensor cables
- 5/8" threaded bolt for AT40x sensors.

576941  **MAS81, Wall Mount Fixture 35°**
MAS81 fixture for inclined adaptation of AT9x0 sensors onto concrete walls or structures. Adaptation of Leica Quick Release for AT9x0 sensors. Integrated safety lever for Quick Release handle.
Fixture Content:
- Installation Instruction
- Wall Mount MAS81
- Set of screws for adaptation of Quick Release
- Set of screws, washers and heavy duty anchors for concrete walls
- Set of cable ties for sensor cables.
POWER SUPPLY, UPS

6009769  **MPB25, Battery Set**
The set consists of:
- 2x MPB25, Battery external Li-Ion (576875)
  Battery Specifications: 37V / 8.1Ah / 299.7Wh
- 1x MPS21, Power Supply Unit (576873)
- 2x MCA24, Battery Cable 0.75m (676876)
- 2x MSI26, Universal Stand Fixture (576895)
- 1x MTC29, Hard Case for MPB25 Batteries (576874)

576873  **MPS21, Power Supply Unit**
Power Supply unit for AT930/960 Absolute Tracker connects to ATC900 Controller (576871). Input 80-264VAC to output 48VDC.
The Power Supply Unit is compatible with 576871 AT Controller and 576875 MPB25, Battery external Li-Ion 37V/8.1Ah and LASC-211 Scanner Controller (576909). For indoor use only.

576875  **MPB25, Battery external Li-Ion 37V/8.1Ah**
External chargeable Li-Ion battery for AT930/960 Absolute Tracker. Connects to the AT Controller. The battery has a built-in charger technology.
To charge the battery the 576873 MPS21 Power Supply Unit is required (to be ordered separately).
To mount the battery on stand/tripod the 576895 MSI26, Universal ATC Stand Fixture has to be ordered separately. Battery Specifications: 37V/8.1Ah/299Wh.

576920  **MAS71, Power Supply Unit Fixture**
The Power Supply Unit Fixtures holds a power supply unit and gets attached to the stand. Therefore the power supply unit fixture keeps the power supply off the ground.
The Power Supply Unit Fixture holds the following power supply units:
- MPS21, Power Supply Unit (576873) - AT9x0
- AC/DC Adapter 15V (773058) - AT40x
and attaches to the following stand/fixtures:
- MST27, Stand Tube Extension (576881)
- MST36, Portable Metrology Tripod Carbon (576901)
- MSI26, Universal ATC Stand Fixture (576895).
CABLES

576885  **MCS11, Sensor Cable 1.5 m**
Connects AT Controller to AT930/960 Absolute Tracker.

576886  **MCS12, Sensor Cable 10 m**
Connects AT Controller to AT930/960 Absolute Tracker.

576887  **MCS13, Sensor Cable 30 m**
Connects AT Controller to AT930/960 Absolute Tracker.

576888  **MCA18, External Temperature Sensor 2 m**
The Sensor is an accessory for the AT930/960 Laser Tracker for measuring external Air- and/or Object temperatures. It connects to AT Controller. The temperature sensor is configured with a 2 m cable and its tip is square shaped by 8x8x42 mm with a borehole ø 4.2 mm to fix it to the object. Parameter: Temperature range: -20...+80°C Accuracy: Temperature: ± 0.3°C.

576889  **MCA19, External Temperature Sensor 10 m**
The Sensor is an accessory for the AT930/960 Laser Tracker for measuring external Air- and/or Object temperatures. It connects to AT Controller. The temperature sensor is configured with a 10m cable and its tip is square shaped by 8x8x42mm with a borehole ø 4.2mm to fix it to the object. Parameter: Temperature range: -20...+80°C Accuracy: Temperature: ± 0.3°C.

576890  **MCA20, External Temperature Sensor 30 m**
The Sensor is an accessory for the AT930/960 Laser Tracker for measuring external Air- and/or Object temperatures. It connects to AT Controller. The temperature sensor is configured with a 30m cable and its tip is square shaped by 8x8x42mm with a borehole ø4.2mm to fix it to the object. Parameter: Temperature range: -20...+80°C Accuracy: Temperature: ± 0.3°C.
REMOTE CONTROL EQUIPMENT

575757  Wireless RF Control
Wireless Radio Frequency Remote Control (2.4GHz), 4 custom programmable buttons, up to 45 m/150 ft Range, USB interface, compatible with Windows XP or higher (32 bit/64 bit).

575965  Wireless IR Control
4 custom programmable buttons, up to 20 m/65 ft range, USB interface, compatible with Windows XP or higher (32 bit/64 bit).

For Apple Devices (iPodTouch, iPads, iPhones) a free AT Remote App available from Apple App Store.
It can be used to remote control any Windows application. Download AT Remote App here: http://itunes.apple.com/us/app/at-remote-app/id567070189?l=de&ls=1&mt=8
More information and server software can be found here: http://metrology.leica-geosystems.com/en/Downloads_6843.htm?cid=3617
COMPENSATION & FIELD CHECK TOOLS

576893  **MAC55, Invar Reference Bar 1000 mm**
The low thermal expansion length Reference Bar provides a stable length for use during laser tracker or scanner jobs. The reference bar provides the following features and content:
- Supports 0.5", 7/8" and 1.5" Reflectors
- Can be mounted on tripod (5/8” thread) or directly placed on the floor/table (3-point feet)
- Bar length uncertainty of +/-0.007mm (+/-0.0003”)
- Certificate included
- Case with contour-cut foam cushion interior
- Weight: Bar alone, 1.45 kg (3.2 lbs); bar and case, 3.86 kg (8.5 lbs).

576894  **MAC23, 6D Compensation Kit**
The MAC23 accessory is for on-site compensations of the integrated 3D and 6D Tracker system components. It consists of tripod interface (5/8” thread), compensation frame and light duty magnetic holder for tooling ball reflectors 0.5”. For the process a 575739 Red-Ring Reflector 0.5” is required, which is not part of the kit.

576898  **MAT33, Optical Cleaning Kit**
The MAT33 Optical Cleaning Kit does away with solvents, harsh cleaning products and messy lens tissues which can leave ugly and problematic smears that ruin the measurement quality. The MAT33 is suitable for cleaning Leica Absolute Tracker Sensor optics and as well the Leica Reflectors. The Kit consists of:
- 1x Dust ex blower (167119)
- 2x Cleaning tissues (771349)
- 8x Cleaning swabs, larg (758346)
- 5x Cotton swabs, small (724954)
- 1x Cleaning brush (822420)
- 1x Cleaning Kit Bag (821236).
MEASURING CART AND SHIPPING CONTAINER

576891  MTC51, AT930/960 Transport Container
The Transport Container can hold:
- AT930/960 Absolute Tracker (576861, 576863, 576864)
- AT Controller (576871)
- MPS21, Power Supply Unit (576873)
- MCS11, Sensor Cable 1.5m (576885)
- AT Quick Release Mount incl. Mandrel (576338)
- MCA18, External Temperature Sensor 2 m (576888)
- Red-Ring Reflector (RRR) 1.5" (575784)
- MSI26, Universal Stand Fixture (576895)
- MAT33, Optical Cleaning Kit (576898)
- Protective Sensor Cover
Empty Transport Container only. Accessories to be ordered separately.
L=62.5 cm, W=50 cm, H=36.6 cm (L=24.60", W=19.70" H=14.40").

576905  MAS53, Tripod Transportation Kit
When shipping or packing requirements call for more protection, the MAS53 Tripod Transportation Kit (576905) nests the MST36 Portable Metrology Tribod (Carbon) (576901) and MAS54, Tripod Padded Bag (576906) padded bag into an ATA rated travel case for easy and safe transportation. This black injection molded plastic case has tilt wheels with a tow handle for easy pull-behind transport. A padlockable watertight lid is included for added security.
Outside case dimensions are 45.1" (114.5 cm) long x 16.0" (40.6 cm) wide x 13.0" (33.0 cm) tall and has an empty weight of 31 pounds (5.9 kg). The 576905 MAS53, Tripod Transportation Kit includes the 576906 MAS54, Tripod Padded Bag and plastic case.
576906  **MAS54, Tripod Padded Bag**  
Add a durable black carrying bag for easy transport to and from the jobsite. This rugged nylon bag has padded sides and a structured bottom to protect the stand and accessories. Three convenient carrying options include handles, a shoulder strap, and built-in wheels with a tow handle. The wide mouth, double zippered opening makes for easy packing and unpacking. The bag is sized to fit the stand with dimensions of 40” (101.6cm) long x 12” (30.5cm) wide x 12” (30.5cm) tall and is nicely branded with an embroidered Hexagon logo.

576950  **MMC91, Metrology Measurement Cart**  
The MMC91 Cart is compatible with AT930/960 Absolute Tracker. Contains a flexible shelf system for installation controllers, UPS and computers. The controller & computer compartment is temperature regulated (build-in fan). The cart can be used like a regular measuring cart or reconfigured to a shuttle cart. The drawers are equipped with preconfigured foam inlays for storing AT9x0 Laser Tacker, scanners, reflectors, reflector supports, T-Probe, T-Probe styli and extensions. The main cart desktop can be extended with a foldable side-table. L=1.20m, W=0.70m, H=1.10m. 
The cart consists of:  
- MMC91 Measurement with shelf compartment, drawers and lockable wheels  
- 2 belts with snap hook and quick-connect buckle to fix Tracker and/or Stands on shuttle rail  
- Power strip (US or EU version)  
- 5 Inlays for drawers  
- Velcro straps for Controller & Computer fixation  
- USB-Fan with USB extension cable  
- Cart compartment and drawers are lockable with a key system (2 keys incl.)  
- Mechanical interface for forklift manipulations  
- Cable Drum
576953 MAM94, Dust Cover
The MAM94 Dust Cover is compatible with the following Measurement Carts: 576950 MMC91, 576896 MMC31

576942 MMC31, Metrology Cart – Modification Kit
Consisting of:
- Installation Manual
- Drawer with foam inlay for scanner devices
- Scanner controller shelf with Velcro tapes for controllers and power supplies
- Foam inlay for AT9x0 sensors
- Set of installation material
The modification kit is compatible with the MMC31, Measurement Metrology Cart (576896) only.

576897 MAA32, ATC 19” – Rack Fixture
The 19”-Rack fixture is designed to hold the AT Controller from the AT930/960 series in standard 19”-rack systems.
Leica Absolute Tracker AT403 with a measurement volume of 320 m (Ø, typical). The system consists of:
- Leica AT403 sensor
- AT Controller 400, 3rd generation with built-in Wi-Fi access point
- MCS17, Sensor Cable 1.8 m
- MCA15, External Temperature Sensor 2 m
- GDF321-I Tribrach
- IR Remote Control
- LAN Cable
- MSI26 Universal stand fixture
- 2 GEB242 Batteries
- 2 GKL311 Battery Charger
- AC Adapter
- Calibration Certificate
- Compensation SW
- Transportation box
- Red-Ring Reflector (RRR) 1.5"
6011846  **Leica Absolute Tracker AT403 Probing System**  
Leica Absolute Tracker AT403 bundled with Leica B-Probe

576361  **Leica Absolute Tracker AT403**  
Leica Absolute Tracker AT403 with a measurement volume of 320 m (Ø, typical). The system consists of:  
- Leica AT403 sensor  
- AT Controller 400, 3rd generation with built-in Wi-Fi access point  
- MCS17, Sensor Cable 1.8 m  
- MCA15, External Temperature Sensor 2 m  
- GDF321-I Tribrach  
- IR Remote Control  
- LAN Cable  
- MSI26 Universal stand fixture  
- 2 GEB242 Batteries  
- 2 GKL311 Battery Charger  
- AC Adapter  
- Calibration Certificate  
- Compensation SW  
- Transportation box  
- Red-Ring Reflector (RRR) 1.5”
TRANSPORTATION CASE

576520  **MTC56 AT403 Trolley Case**
Trolley Case & Shipping Container for AT40x (not included) and optional Accessories (i.e. B-Probe case, Wooden Reflector Box, GKL341 Pro Charger or Application Notebook; not included)
Suitable for AT402/AT403 systems equipped with GKL311 chargers and MSI26 Universal Stand Fixture.

833516  **GVP716 Back Pack Carrying System**
Backpack for AT40x Container and TPS6000 Container

CONTROLLER

576360  **AT Controller 400**
The AT Controller 400, 3rd generation with built-in Wi-Fi access point, is compatible with the Leica Absolute Tracker AT40x series.

576895  **MSI26 Universal Stand Fixture**
The Universal AT Controller Stand Fixture with reusable Velcro strap (0.52 m) is compatible with:
- AT Controller (576871, 576360, 576368)
- MPB25, Battery external Li-Ion 42V/7.4Ah (576 875)
MAS71, Power Supply Unit Fixture
The Power Supply Unit Fixtures holds a power supply unit and gets attached to the stand. Therefore the power supply unit fixture keeps the power supply off the ground.
The Power Supply Unit Fixture holds the following power supply units:
- MPS21, Power Supply Unit (576873) - AT9x0
- AC/DC Adapter 15V (773058) - AT40x
and attaches to the following stand/fixtures:
- MST27, Stand Tube Extension (576881)
- MST36, Portable Metrology Tripod Carbon (576901)
- MSI26, Universal ATC Stand Fixture (576895).

Leica B-Probe
The Leica B-Probe is an entry level, portable and wireless probing solution with a measurement volume of 20 m (Ø).
The Leica B-Probe comes with
- Steel ball stylus 12,7 mm (0.5”)
- MAP59 Stylus Extension 100 mm
- Stylus compensation tool
- Stylus tool
- micro-USB cable
- Calibration Certificate
- 4 X AAA batteries
- Transportation case

Leica B-Probe Accessories

MAP59 Stylus Extension 100 mm
100 mm Stylus Extension for B-Probe

MAP60 Stylus Extension 200 mm
200 mm Stylus Extension for B-Probe (mit Bild)

Ruby Ball Stylus – M5
ø 6 mm

Steel ball stylus
D = 12,7 mm (0.5”), L = 55 mm

Stylus tool for M5 threaded styli
576512  Leica B-Probe Stylus Compensation Tool

576515  Quick-charger Powerline 4  
for AAA-batteries (EU, US, UK), can not be delivered to all countries.

576513  USB – micro-USB cable for Leica B-Probe  
Firmware updates via PC

**POWER SUPPLY**

793975  GEB242 Battery  
Internal Li-Ion battery, 14.8V/5.8Ah, chargeable.

799187  GKL341, Charger Pro 5000  
Professional charger to charge up to 4x Li-Ion batteries GEB241 and GEB242, AC adapter included.
799185  **GKL311, Charger Pro 3000**
Charger for one Li-Ion battery for GEB241 & EB242, including AC/DC adaptor.

576377  **MPS10, PoE+ Set**
The PoE+ set configuration provides electrical power, along with data, from the PC to the Absolute Tracker AT40x over standard category 5 cable in an Ethernet network.
Content: PoE+ midspan, PoE+ module, 2 network cables (10 m & 15 m)
REMOTE CONTROL EQUIPMENT

576379   **AT Remote Control 400**
The Wireless Infra-Red Control unit is compatible with Absolute Tracker AT40x. Content: Remote control unit, 2 AAA-batteries.

575965   **Wireless Infrared Remote Control**
4 custom programmable buttons, up to 20 m/65 ft range, USB interface, compatible with Windows XP or higher (32bit/64bit).

575757   **Wireless RF Control**
Wireless Radio Frequency Remote Control (2.4GHz), 4 custom programmable buttons, up to 45 m/150 ft Range, USB interface, compatible with Windows XP or higher (32bit/64bit).

**For Apple Devices** (iPodTouch, iPads, iPhones) a free AT Remote App available from Apple App Store. It can be used to remote control any Windows application. Download AT Remote App here: http://itunes.apple.com/us/app/at-remote-app/id567070189?l=de&ls=1&mt=8

More information and server software can be found here: http://metrology.leica-geosystems.com/en/Downloads_6843.htm?cid=3617
### CABLES

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Compatibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>576376</td>
<td><strong>MCS17, Sensor Cable, 1.8 m</strong></td>
<td>AT403 AT930 AT960 TDRA6000 TM6100A</td>
</tr>
<tr>
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<td>Compatible with Leica Absolute Tracker AT40x and AT Controller 400</td>
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</tr>
<tr>
<td>576356</td>
<td><strong>MCS82 Sensor Cable 5 m</strong></td>
<td>AT403 AT930 AT960 TDRA6000 TM6100A</td>
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<td>Compatible with Leica Absolute Tracker AT40x and AT Controller 400</td>
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<tr>
<td>576357</td>
<td><strong>MCS83 Sensor Cable 10 m</strong></td>
<td>AT403 AT930 AT960 TDRA6000 TM6100A</td>
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<td></td>
<td>Compatible with Leica Absolute Tracker AT40x and AT Controller 400</td>
<td></td>
</tr>
<tr>
<td>576350</td>
<td><strong>MCA15, External Temperature Sensor, 2 m</strong></td>
<td>AT403 AT930 AT960 TDRA6000 TM6100A</td>
</tr>
<tr>
<td></td>
<td>The MCA15 external NTC Temperature Sensor connects to the AT Controller 400 or the standalone AT MeteoStation. The temperature sensor is configured with a 2 m cable and its tip is square shaped by 8x8x40 mm with a borehole ø4.2 mm to fix it to the object. It can be used as an air- and/or object- sensor. Parameter: Temperature range: -20...+50°C Accuracy: Temperature: ± 0.2°C.</td>
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<tr>
<td>576351</td>
<td><strong>MCA14, External Temperature Sensor, 10 m</strong></td>
<td>AT403 AT930 AT960 TDRA6000 TM6100A</td>
</tr>
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<td></td>
<td>The MCA14 external NTC Temperature Sensor connects to the AT Controller 400 or the standalone AT MeteoStation. The temperature sensor is configured with a 10 m cable and its tip is square shaped by 8x8x40 mm with a borehole ø4.2 mm to fix it to the object. It can be used as an air- and/or object- sensor. Parameter: Temperature range: -20...+50°C Accuracy: Temperature: ± 0.2°C.</td>
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<td>575899</td>
<td><strong>LAN Cable RJ-45, 5 m</strong></td>
<td>AT403 AT930 AT960 TDRA6000 TM6100A</td>
</tr>
<tr>
<td></td>
<td>LAN cable to connect Laser Tracker with application computer.</td>
<td></td>
</tr>
</tbody>
</table>
TRIPODS AND STANDS

575483  **AT21 Aluminium Tripod**
Robust, well-established tripod for general use and 5/8” thread. Suitable for Laser Stations, Theodolites and Laser Tracker field check equipment.
Instrument height: from 1.4 – 2.1 m (4.6 – 6.9 ft)
Weight: 11 kg (24.2 lb)

575484  **AT28 Aluminium Tripod**
with adjustable centre column. Robust, well-established tripod for general use and 5/8” thread. Suitable for Laser Stations, Theodolites and Laser Tracker field check equipment.
Instrument height: from 1.4 – 2.8 m (4.6 – 9.2 ft)
Weight: 12 kg (26.4 lb)

576349  **AT08 Aluminium Tripod**
For easy demos, increased portability and reduction of total system weight. Aluminium Tripod for AT Laser Tracker with 3.5”x8 thread interface. The tripod interface is compatible with 576338 AT Quick Release Mount.
Tripod height (working position): 815mm (fix)
Dimensions: 25x25x100cm (folded)
Weight: 10kg (without AT Quick Release Mount)
Special feature: Cable fixation
Note: For best stability and accuracy it is still recommended to use the standard Tracker stand and stand extension. Adapter 577261 from Hubbs required for AT40x sensors.
577 261  **235-5 Instrument Adapter**
For Instruments with 5/8”-11 Mount Requirements
The 235-5 converts a 3½”-8 standard external instrument thread on any stand or adapter into a 5/8”-11 external thread to accommodate most theodolites or other instruments.
Specifications
Effective height: 1.092” (27.7 mm) – this is the vertical distance between the lower interface surface (on this adapter, the very bottom) and the top, on which the instrument would rest
Internal thread: 3½”-8
Material: Stainless steel. Approx. weight: 3lbs.

576354  **MAS16, Stand Adapter**
The MAS16 Stand Adapter fits on the AT Stand Extension (576337). The Stand Adapter is designed in such way, that the tilting axis of the AT40x is at the same height as the AT9xx when used on the AT Stand Extension.

576337  **AT Stand Extension**
Base stand extension for AT Laser Trackers. The AT Stand Extension can be extended either with 575998 Stand extension, 380 mm (15”) or 575999 Stand extension, 180 mm (7”).

57597  **Leica Absolute Tracker Stand**
The Leica Tracker stand is equipped with three levelling screws and shock absorbing wheels.

296632  **GST20 Tripod, Telescopic, with Accessories**
Robust, well-established tripod for general use. Suitable for levels, lasers, Total Stations and GPS. Extendible 180 cm (5.9 ft), weight 6.4 kg (14.1 lb).
**GST4 Tripod Base**
for setting up GST Tripods on smooth surfaces

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### TRIBRACHS

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Options</th>
</tr>
</thead>
</table>
| 576 352 | **GDF 321-I, Trirach PRO** without optical plummet, light grey | AT403  
AT930  
AT960  
TDRA6000  
TM6100A | opt.  
opt.  
opt.  
opt.  
opt. |
| 576 353 | **GDF322-I, Trirach PRO** with optical, plummet, light grey | AT403  
AT930  
AT960  
TDRA6000  
TM6100A | opt.  
opt.  
opt.  
opt.  
opt. |

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### MAT33, Optical Cleaning Kit
The MAT33 Optical Cleaning Kit does away with solvents, harsh cleaning products and messy lens tissues which can leave ugly and problematic smears that ruin the measurement quality. The MAT33 is suitable for cleaning Leica Absolute Tracker Sensor optics and as well the Leica Reflectors. The Kit consists of:
- 1x Dust ex blower (167119)
- 2x Cleaning tissues (771349)
- 8x Cleaning swabs, larg (758346)
- 5x Cotton swabs, small (724954)
- 1x Cleaning brush (822420)
- 1x Cleaning Kit Bag (821236).
REFLECTORS

CORNER CUBE

575 784  Red-Ring Reflector (RRR) 1.5” ball with hardened steel surface
Corner cube reflector with removable ring, protection cover for optic and certificate, in wooden box

All Red-Ring reflectors are also available in packs of two, five or ten. See information and specifications page 43.

576 311  Red-Ring Reflector (RRR) 7/8” ball with hardened steel surface
Corner cube reflector with removable ring, protection cover for optic and certificate, in wooden box

All Red-Ring reflectors are also available in packs of two, five or ten. See information and specifications page 43.

575 739  Red-Ring Reflector (RRR) 0.5” ball with hardened steel surface
Corner cube reflector with removable ring, protection cover for optic and certificate, in wooden box.

All Red-Ring reflectors are also available in packs of two, five or ten. See information and specifications page 43.

576 244  Break Resistant Reflector 1.5” (BRR)
Break Resistant Reflector with collar, protection cover for optic and certificate, in wooden box
Material ball: Stainless steel, surface-hardened, magnetic. See information and specifications page 43.
TRIPLEPRISM REFLECTOR

576 234 Tooling Ball Reflector 0.5" (TBR)
Tooling ball glass prism reflector with removable ring, protection cover for optic and certificate, in wooden box. Material ball: Stainless steel, surface-hardened, magnetic.
Also available in 5 or 10 packs. See information and specifications page 43.

575 848 Reflectors for Fixed Installation (RFI) 0.5"
Set of 5 pcs.
Ball with anodized aluminium surface, ø 0.5" (12.7 mm).
Also available in pack of 10. See information and specifications page 43.
Applied for: Robot and machine operations dynamic and static measurements

576962 Super CatEye Reflector (SCE) 1.5"
Super CatEye Reflector with ultra-wide acceptance angle of ±75° from vertical around a full 360-degree field of view. The deliverables of the SCE are the reflector with optical protection cover, certificate and product storage box.

573 510 CatEye Reflector (CER)
Ball with Hardened Steel Surface ø 75 mm (2.9528"), ±0.05 mm.
See information and specifications page 43.

575 847 Surface Reflector Kit
including: Surface Reflector with lanyard, Pin Point Stylus, 3 mm Ruby Ball Stylus, Edge Stylus and manual
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<th>REFLECTORS</th>
<th>Quantity</th>
<th>Radius</th>
<th>Centring of Optics</th>
<th>Roundness (ball)</th>
<th>Acceptance angle</th>
<th>Weight</th>
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<tbody>
<tr>
<td>RED-RING REFLECTORS 1.5” (RRR)</td>
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<td></td>
<td></td>
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<tr>
<td>575 784 Red-Ring Reflector 1.5”</td>
<td>1 pc.</td>
<td>19.05 mm ±0.0025 mm (0.7500 in ± 0.00010 in)</td>
<td>&lt; ±0.003 mm</td>
<td>≤ 0.003 mm</td>
<td>≤ 0.003 mm</td>
<td>±30°, no limitation due to ring</td>
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<td>576 241 Red-Ring Reflector 1.5”</td>
<td>2 pcs.</td>
<td>11.125 mm ±0.0025 mm (0.4375 in ± 0.0001 in)</td>
<td>&lt; ±0.003 mm</td>
<td>≤ 0.003 mm</td>
<td>≤ 0.003 mm</td>
<td>±30°, no limitation due to ring</td>
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<tr>
<td>576 242 Red-Ring Reflector 1.5”</td>
<td>5 pcs.</td>
<td>6.35 mm ±0.0025 mm (0.2500 in ± 0.00010 in)</td>
<td>&lt; ±0.003 mm</td>
<td>≤ 0.003 mm</td>
<td>≤ 0.003 mm</td>
<td>±30°, no limitation due to ring</td>
</tr>
<tr>
<td>576 243 Red-Ring Reflector 1.5”</td>
<td>10 pcs.</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>RED-RING REFLECTORS 7/8” (RRR)</td>
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<tr>
<td>576 311 Red-Ring Reflector 7/8”</td>
<td>1 pc.</td>
<td>19.05 mm ±0.0025 mm (0.7500 in ± 0.00010 in)</td>
<td>&lt; ±0.003 mm</td>
<td>≤ 0.003 mm</td>
<td>≤ 0.003 mm</td>
<td>±30°, no limitation due to ring</td>
</tr>
<tr>
<td>576 312 Red-Ring Reflector 7/8”</td>
<td>2 pcs.</td>
<td>11.125 mm ±0.0025 mm (0.4375 in ± 0.0001 in)</td>
<td>&lt; ±0.003 mm</td>
<td>≤ 0.003 mm</td>
<td>≤ 0.003 mm</td>
<td>±30°, no limitation due to ring</td>
</tr>
<tr>
<td>576 313 Red-Ring Reflector 7/8”</td>
<td>5 pcs.</td>
<td>6.35 mm ±0.0025 mm (0.2500 in ± 0.00010 in)</td>
<td>&lt; ±0.003 mm</td>
<td>≤ 0.003 mm</td>
<td>≤ 0.003 mm</td>
<td>±30°, no limitation due to ring</td>
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<tr>
<td>576 314 Red-Ring Reflector 7/8”</td>
<td>10 pcs.</td>
<td></td>
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<tr>
<td>RED-RING REFLECTORS 0.5” (RRR)</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>575 739 Red-Ring Reflector 0.5”</td>
<td>1 pc.</td>
<td>6.35 mm ±0.0025 mm (0.2500 in ± 0.00010 in)</td>
<td>&lt; ±0.003 mm</td>
<td>≤ 0.003 mm</td>
<td>≤ 0.003 mm</td>
<td>±30°, no limitation due to ring</td>
</tr>
<tr>
<td>576 238 Red-Ring Reflector 0.5”</td>
<td>2 pcs.</td>
<td>3.625 mm ±0.004 mm (0.143 in ± 0.00016 in)</td>
<td>&lt; ±0.006 mm</td>
<td>≤ 0.006 mm</td>
<td>≤ 0.006 mm</td>
<td>±22° (without ring ≤ ±50°)</td>
</tr>
<tr>
<td>576 239 Red-Ring Reflector 0.5”</td>
<td>5 pcs.</td>
<td>3.625 mm ±0.004 mm (0.143 in ± 0.00016 in)</td>
<td>&lt; ±0.006 mm</td>
<td>≤ 0.006 mm</td>
<td>≤ 0.006 mm</td>
<td>±22° (without ring ≤ ±50°)</td>
</tr>
<tr>
<td>576 240 Red-Ring Reflector 0.5”</td>
<td>10 pcs.</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>BREAK RESISTANT REFLECTORS 1.5” (BRR)</td>
<td></td>
<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>576 244 Break Resistant Reflector 1.5”</td>
<td>1 pc.</td>
<td>19.05 mm ±0.0025 mm (0.7500 in ± 0.00010 in)</td>
<td>&lt; ±0.010 mm</td>
<td>≤ 0.010 mm</td>
<td>≤ 0.010 mm</td>
<td>±30°, no limitation due to collar</td>
</tr>
<tr>
<td>TOOLING BALL REFLECTORS 0.5” (TBR)</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>576 234 Tooling Ball Reflector 0.5”</td>
<td>1 pc.</td>
<td>6.35 mm ±0.004 mm (0.2500 in ± 0.00010 in)</td>
<td>&lt; ±0.01 mm</td>
<td>≤ 0.01 mm</td>
<td>≤ 0.01 mm</td>
<td>≤ ±22°</td>
</tr>
<tr>
<td>576 235 Tooling Ball Reflector 0.5”</td>
<td>2 pcs.</td>
<td>3.625 mm ±0.004 mm (0.143 in ± 0.00016 in)</td>
<td>&lt; ±0.01 mm</td>
<td>≤ 0.01 mm</td>
<td>≤ 0.01 mm</td>
<td>≤ ±22°</td>
</tr>
<tr>
<td>576 236 Tooling Ball Reflector 0.5”</td>
<td>5 pcs.</td>
<td>3.625 mm ±0.004 mm (0.143 in ± 0.00016 in)</td>
<td>&lt; ±0.01 mm</td>
<td>≤ 0.01 mm</td>
<td>≤ 0.01 mm</td>
<td>≤ ±22°</td>
</tr>
<tr>
<td>576 245 Tooling Ball Reflector 0.5”</td>
<td>10 pcs.</td>
<td></td>
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</tr>
<tr>
<td>REFLECTORS FOR FIXED INSTALLATION 0.5” (RFI)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>575 848 Reflectors for Fixed Installation 0.5”</td>
<td>5 pcs.</td>
<td>6.35 mm (0.2500 in)</td>
<td>not applicable</td>
<td>not applicable</td>
<td>not applicable</td>
<td>±50°</td>
</tr>
<tr>
<td>576 246 Reflectors for Fixed Installation 0.5”</td>
<td>10 pcs.</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>SUPER CAT EYE REFLECTOR (SCE) 1.5”</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>576962 Super CatEye Reflector (SCE) 1.5”</td>
<td>1 pc.</td>
<td>19.05 mm ±0.0025 mm (0.7500 in ± 0.00010 in)</td>
<td>±0.005 mm</td>
<td>≤ 0.005 mm</td>
<td>≤ 0.005 mm</td>
<td>±75°</td>
</tr>
<tr>
<td>CATEYE REFLECTOR (CER)</td>
<td></td>
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<tr>
<td>573 510 CatEye Reflector (CER)</td>
<td>1 pc.</td>
<td>37.5 mm ±0.025 mm (1.4772 in ± 0.00099 in)</td>
<td>±0.01 mm</td>
<td>≤ 0.01 mm</td>
<td>≤ 0.01 mm</td>
<td>±60°</td>
</tr>
<tr>
<td>576962 Red-Ring Reflector 1.5”</td>
<td>1 pc.</td>
<td>37.5 mm ±0.025 mm (1.4772 in ± 0.00099 in)</td>
<td>±0.01 mm</td>
<td>≤ 0.01 mm</td>
<td>≤ 0.01 mm</td>
<td>±60°</td>
</tr>
<tr>
<td>576 244 Break Resistant Reflector 1.5”</td>
<td>1 pc.</td>
<td>19.05 mm ±0.0025 mm (0.7500 in ± 0.00010 in)</td>
<td>&lt; ±0.010 mm</td>
<td>≤ 0.010 mm</td>
<td>≤ 0.010 mm</td>
<td>±30°, no limitation due to collar</td>
</tr>
<tr>
<td>576 245 Tooling Ball Reflector 0.5”</td>
<td>5 pcs.</td>
<td>6.35 mm ±0.004 mm (0.2500 in ± 0.00010 in)</td>
<td>&lt; ±0.01 mm</td>
<td>≤ 0.01 mm</td>
<td>≤ 0.01 mm</td>
<td>≤ ±22°</td>
</tr>
<tr>
<td>576 246 Reflectors for Fixed Installation 0.5”</td>
<td>10 pcs.</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
**TAPE TARGET REFLECTOR**

763 532  **GZM29, Reflective Tape, 20 x 20 mm**  
for short range, pack of 20 pieces

763 533  **GZM30, Reflective Tape, 40 x 40 mm**  
for mid range, pack of 20 pieces

763 534  **GZM31, Reflective Tape, 60 x 60 mm**  
for long range, pack of 20 pieces

576 389  **CRT26 Circular Retro Target Tape**  
outside ø 26 mm, central aperture ø 5 mm,  
light orange, for medium range pack of 100 pieces

574 998  **Target-kit with retro-target on magnetic target, in case, comprising:**  
20 ring-shaped retro-target, central aperture  
ø 5 mm, outside ø 26 mm (576 389)  
20x Retro-Target, 20 x 20 mm (635 317)  
20x Retro-Target, 40 x 40 mm (635 318)  
4x RB Bases (575 776)  
1x RBC Base (575 777)  
4x RT3-90 Targets (575 773)  
4x RT3-45 Targets (575 774)  
4x RT3-0 Targets (575 775)

575 773  **RT3-90 Tape Target**  
with offset 30 mm ± 0.05 mm, magnetic  
fits to Target Base RB and RBC
575 774  **RT3-45 Tape Target**  
with offset 30 mm ±0.05 mm, magnetic fits to Target RB and RBC

575 775  **RT3-0 Tape Target**  
with offset 30 mm ±0.05 mm, magnetic fits to Target Base RB and RBC

575 776  **RB magnetic Target Base**  
with offset 10 mm ±0.05 mm, magnetic fits to Tape Targets RT3

575 777  **RBC magnetic Target Base**  
with offset 10 mm ±0.05 mm, fits to tape targets RT3, with central bolt hole and locating pin

575 088  **Pass Point-Retro Target Set**  
in case, comprising: 3 swivel targets with retro reflective foils, ø45 mm, h=75 mm, 3 magnetic bases.
# SPECIAL REFLECTORS AND HOLDERS
## (LEICA TDRA6000 ONLY)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>575 940</td>
<td><strong>Roller Alignment Target Fixture</strong>&lt;br&gt;comprising:&lt;br&gt;2 floor fixtures, 1 roller fixture, 2 RT3-90 targets (575773), 2 RT3-45 targets (575774), excluding CCR1.5” reflector and CCR1.5” supports.</td>
<td>AT403  &lt;br&gt;AT930  &lt;br&gt;AT960  &lt;br&gt;TDRA6000  &lt;br&gt;TM6100A</td>
</tr>
<tr>
<td>574 999</td>
<td><strong>Hidden Point Bar, 0.5 m</strong>&lt;br&gt;with tape targets. (Magnetic base not included).</td>
<td>AT403  &lt;br&gt;AT930  &lt;br&gt;AT960  &lt;br&gt;TDRA6000  &lt;br&gt;TM6100A</td>
</tr>
<tr>
<td>573 487</td>
<td><strong>Magnetic Support for Hidden Point Bar, 0.5 m</strong>&lt;br&gt;Adaptation for Hubbs Hidden Point Holder HPBH included.</td>
<td>AT403  &lt;br&gt;AT930  &lt;br&gt;AT960  &lt;br&gt;TDRA6000  &lt;br&gt;TM6100A</td>
</tr>
<tr>
<td>641 662</td>
<td><strong>GMP101 Mini Prism Set</strong>&lt;br&gt;incl. bubble, target plate and spike, in bag, also suitable for GLS11 and GRT44 (same height as GPH1, additive constant +17.5 mm).</td>
<td>AT403  &lt;br&gt;AT930  &lt;br&gt;AT960  &lt;br&gt;TDRA6000  &lt;br&gt;TM6100A</td>
</tr>
<tr>
<td>555 631</td>
<td><strong>GPH1P Single Prism Precision Reflector</strong></td>
<td>AT403  &lt;br&gt;AT930  &lt;br&gt;AT960  &lt;br&gt;TDRA6000  &lt;br&gt;TM6100A</td>
</tr>
</tbody>
</table>
TARGETS FOR MULTIPLE THEODOLITE SYSTEMS

571 549  Self-Adhesive Target Foils
black/white, Ø 23 mm, 48 pieces on one sheet.

800 742  Scale Bar 0,9 m

574 681  Orientation Target
magnetic

575 854  Sphere Fit Tool
for Cateye Reflector

576 142  Light Duty Magnetic Holder
for Tooling Ball Reflectors 0.5”. 
**MAT22, Pass Point Target Kit**
8x Non magnetic target base to be affixed with hot glue. 5x Neodym magnetic target base with magnetic shield for transportation and storage. In case with spare cutout for CCR 1,5” reflector (not included), dimension 250 x 200 x 70 mm, weight with targets 1.1 kg.

**Magnetic NORS Reflector Support**
for 1,5" Reflectors RRR & BRR

**Magnetic NORS Reflector Support Kit**
for 1,5" Reflectors RRR & BRR (Kit of 5 units)
COMPENSATION AND FIELD CHECK TOOLS

575 837  **Tripod Adapter**
- to be used for various alignment or compensation measurements. Thread for tripod 5/8". Bore hole 12 mm (supports not included)
- Tripod reflector holder for consistent reference point
- Drawn to scale
- Steel with black oxide finish

575 837  **AT28 Aluminium Tripod**
- with adjustable centre column. Robust, well-established tripod for general use and 5/8” thread. Suitable for Laser Stations, Theodolites and Laser Tracker field check equipment.
Instrument height: from 1.4 – 2.8 m (4.6 – 9.2 ft)
Weight: 12 kg (26.4 lb)

575 483  **AT21 Aluminium Tripod**
- Robust, well-established tripod for general use and 5/8” thread. Suitable for Total Stations, Theodolites and laser tracker field check equipment. Instrument height from 1.4 – 2.1 m (4.6 – 6.9 ft), weight 11 kg (24.2 lb).
**Magnetic Reflector Holder**

- 804 011
  - for reflectors in spherical housings, Ø 1.5” with bolt hole for 575 497

- 803 728
  - for reflectors in spherical housings, Ø 75 mm with bolt hole for 575 497 and 575 599.
  - Tripod reflector holder for consistent reference point
  - Steel with black oxide finish

**Mirror Tool**

- 576 401
  - to measure distances between 2 points with Laser Tracker using interferometer only. This basic set includes 2 holders with reflector holders for 0.5” and 1.5” (2 units each version 576073 and 576096)
  - This tool can be used also to generate nominal distance values for the planned VDI/VDE standard.

**Reflector mount**

- 576 402
  - which can be mounted on a tripod or fix installed at a stabil location to establish nominal distances for comparison measurements. To support 0.5” and 1.5” CCR’s magnetic reflector holders version 576073 and 576096 are recommended.
## REFLECTOR HOLDERS

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Offset</th>
<th>Shank</th>
<th>Body</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>577 001</td>
<td>Reflector Holder 1.5&quot;</td>
<td>24 mm</td>
<td>Ø 6 mm</td>
<td>Ø 25.4 mm</td>
<td>stainless steel</td>
</tr>
<tr>
<td>577 002</td>
<td>Reflector Holder 1.5&quot;</td>
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<td>Ø 8 mm</td>
<td>Ø 25.4 mm</td>
<td>stainless steel</td>
</tr>
<tr>
<td>577 003</td>
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<td>24 mm</td>
<td>Ø 12 mm</td>
<td>Ø 25.4 mm</td>
<td>stainless steel</td>
</tr>
<tr>
<td>577 101</td>
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<td>25 mm</td>
<td>Ø 6 mm</td>
<td>Ø 25.4 mm</td>
<td>stainless steel</td>
</tr>
<tr>
<td>577 102</td>
<td>Reflector Holder 1.5&quot;</td>
<td>25 mm</td>
<td>Ø 8 mm</td>
<td>Ø 25.4 mm</td>
<td>stainless steel</td>
</tr>
<tr>
<td>577 103</td>
<td>Reflector Holder 1.5&quot;</td>
<td>25 mm</td>
<td>Ø 10 mm</td>
<td>Ø 25.4 mm</td>
<td>stainless steel</td>
</tr>
<tr>
<td>577 104</td>
<td>Reflector Holder 1.5&quot;</td>
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<td>Ø 25.4 mm</td>
<td>stainless steel</td>
</tr>
<tr>
<td>577 120</td>
<td>Reflector Holder 1.5&quot;</td>
<td>1.0000&quot;</td>
<td>Ø 0.2500&quot;</td>
<td>Ø 1.000&quot;</td>
<td>stainless steel</td>
</tr>
<tr>
<td>577 125</td>
<td>Reflector Holder 1.5&quot;</td>
<td>24 mm</td>
<td>shankless</td>
<td>Ø 40.64 mm</td>
<td>stainless steel</td>
</tr>
<tr>
<td>577 126</td>
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<td>25 mm</td>
<td>shankless</td>
<td>Ø 40.64 mm</td>
<td>stainless steel</td>
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<td>577 127</td>
<td>Reflector Holder 1.5&quot;</td>
<td>1.0000&quot;</td>
<td>shankless</td>
<td>Ø 1.6000&quot;</td>
<td>stainless steel</td>
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<td>577 128</td>
<td>Reflector Holder 1.5&quot;</td>
<td>24 mm</td>
<td>shankless</td>
<td>Ø 40.64 mm</td>
<td>stainless steel, magnetic base</td>
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<tr>
<td>577 129</td>
<td>Reflector Holder 1.5&quot;</td>
<td>25 mm</td>
<td>shankless</td>
<td>Ø 40.64 mm</td>
<td>stainless steel, magnetic base</td>
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<tr>
<td>577 130</td>
<td>Reflector Holder 1.5&quot;</td>
<td>1.0000&quot;</td>
<td>shankless</td>
<td>Ø 1.6000&quot;</td>
<td>stainless steel, magnetic base</td>
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<tr>
<td>Part Number</td>
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<td>Offset</td>
<td>Shank</td>
<td>Body</td>
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<tr>
<td>577 135</td>
<td>Edge Reflector Holder 1.5”</td>
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<td>stainless steel</td>
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<tr>
<td>577 136</td>
<td>Edge Reflector Holder 1.5”</td>
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<td>25 mm</td>
<td>stainless steel</td>
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<td>Drift Nest 1.5”</td>
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<td>1.0000”</td>
<td>aluminium</td>
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<td>Foundation Reflector Holder 1.5”</td>
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<td>576 134</td>
<td>Tripod Reflector Holder 1.5”</td>
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<tr>
<td>REFLECTOR HOLDERS</td>
<td></td>
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<td>-------------------</td>
<td></td>
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</tbody>
</table>

| 576 104 | Leica Lanyard Set 1 (full)  
for safe handling of 7/8” and 1.5” reflectors |

| 576 105 | Leica Lanyard Set 2 (partial)  
for safe handling of 7/8” and 1.5” reflectors |
<table>
<thead>
<tr>
<th>Offset</th>
<th>Shank</th>
<th>Body</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.75&quot;</td>
<td>ø 0.25&quot;</td>
<td>ø 0.88&quot;</td>
<td>stainless steel</td>
</tr>
<tr>
<td>0.75&quot;</td>
<td>ø 0.375&quot;</td>
<td>ø 0.88&quot;</td>
<td>stainless steel</td>
</tr>
<tr>
<td>0.75&quot;</td>
<td>ø 0.5&quot;</td>
<td>ø 0.88&quot;</td>
<td>stainless steel</td>
</tr>
<tr>
<td>20 mm</td>
<td>ø 6 mm</td>
<td>ø 22.2 mm</td>
<td>stainless steel</td>
</tr>
<tr>
<td>20 mm</td>
<td>ø 8 mm</td>
<td>ø 22.2 mm</td>
<td>stainless steel</td>
</tr>
<tr>
<td>20 mm</td>
<td>ø 10 mm</td>
<td>ø 22.2 mm</td>
<td>stainless steel</td>
</tr>
<tr>
<td>20 mm</td>
<td>ø 12 mm</td>
<td>ø 22.2 mm</td>
<td>stainless steel</td>
</tr>
<tr>
<td>0.75&quot;</td>
<td>shankless</td>
<td>ø 0.88&quot;</td>
<td>stainless steel</td>
</tr>
<tr>
<td>20 mm</td>
<td>shankless</td>
<td>ø 22.2 mm</td>
<td>stainless steel, magnetic base</td>
</tr>
<tr>
<td>0.75&quot;</td>
<td></td>
<td></td>
<td>stainless steel</td>
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<td>20 mm</td>
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</table>

577359 1.5" to 7/8" adapter - to be able to use a 7/8" reflector in a 1.5" nest.
### 0.5” REFLECTOR HOLDERS

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Offset</th>
<th>Shank</th>
<th>Body</th>
<th>Material</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>577 201</td>
<td>Reflect Holder 0.5”</td>
<td>10 mm</td>
<td>Ø 5 mm</td>
<td>Ø 12.7 mm</td>
<td>stainless steel</td>
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<tr>
<td>577 202</td>
<td>Reflect Holder 0.5”</td>
<td>10 mm</td>
<td>Ø 6 mm</td>
<td>Ø 12.7 mm</td>
<td>stainless steel</td>
<td></td>
</tr>
<tr>
<td>577 203</td>
<td>Reflect Holder 0.5”</td>
<td>10 mm</td>
<td>Ø 8 mm</td>
<td>Ø 12.7 mm</td>
<td>stainless steel</td>
<td></td>
</tr>
<tr>
<td>577 204</td>
<td>Reflect Holder 0.5”</td>
<td>10 mm</td>
<td>Ø 10 mm</td>
<td>Ø 0.75”</td>
<td>stainless steel</td>
<td></td>
</tr>
<tr>
<td>577 205</td>
<td>Reflect Holder 0.5”</td>
<td>10 mm</td>
<td>Ø 12 mm</td>
<td>Ø 0.75”</td>
<td>stainless steel</td>
<td></td>
</tr>
<tr>
<td>577 206</td>
<td>Reflect Holder 0.5”</td>
<td>12 mm</td>
<td>Ø 6 mm</td>
<td>Ø 12.7 mm</td>
<td>stainless steel</td>
<td></td>
</tr>
<tr>
<td>577 207</td>
<td>Reflect Holder 0.5”</td>
<td>12 mm</td>
<td>Ø 8 mm</td>
<td>Ø 12.7 mm</td>
<td>stainless steel</td>
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<tr>
<td>577 208</td>
<td>Reflect Holder 0.5”</td>
<td>12 mm</td>
<td>Ø 12 mm</td>
<td>Ø 0.75”</td>
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<tr>
<td>577 209</td>
<td>Reflect Holder 0.5”</td>
<td>0.3125”</td>
<td>Ø 0.2500”</td>
<td>Ø 0.5000”</td>
<td>stainless steel</td>
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<tr>
<td>577 210</td>
<td>Reflect Holder 0.5”</td>
<td>0.5000”</td>
<td>Ø 0.2500”</td>
<td>Ø 0.5000”</td>
<td>stainless steel</td>
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<tr>
<td>577 220</td>
<td>Reflect Holder 0.5”</td>
<td>10 mm</td>
<td>shankless</td>
<td>Ø 12.7 mm</td>
<td>stainless steel, magnetic base</td>
<td>AT403 opt., AT930 opt., AT960-MR opt., AT960-LR opt., TDRA6000 opt., TM6100A opt.</td>
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<tr>
<td>577 221</td>
<td>Reflect Holder 0.5”</td>
<td>12 mm</td>
<td>shankless</td>
<td>Ø 12.7 mm</td>
<td>stainless steel, magnetic base</td>
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<tr>
<td>577 222</td>
<td>Reflect Holder 0.5”</td>
<td>0.5000”</td>
<td>shankless</td>
<td>Ø 0.5000”</td>
<td>stainless steel, magnetic base</td>
<td></td>
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</tbody>
</table>
577 230  **Reflector Holder 0.5” Drift Nest**
Offset 0.5000”, stainless steel

577 235  **Reflector Holder 0.5” Target Corner**
Offset 0.5000”, stainless steel

576 131  **Double Vector for TBR, Shank A ø 0.2500”**
- Holds 2 0.5” reflectors on centreline and critical offsets to represent the centreline and direction of a hole
- Centring and height tolerance within 0.0127mm (0.0005”)
- Steel with black oxide finish

576 052  **Heavy Duty magnetic Holder for TBR**
for tooling ball reflectors 0.5”

**MISCELLANEOUS**

577 255  **1.5” Total Station Sphere**
A 1.5” Sphere for 3D manual sighting applications.

577 259  **1.5” to 0.5” Adapter**
To be able to use a 0.5” reflector in a 1.5” nest
**Leica Geosystems Laser Tracker – Imperial Reflector Holder Kit**

Consisting of:
- 3x 577230 Reflector Holder 0.5” Drift Nest, Offset 0.5000”, Stainless Steel
- 1x 577235 Reflector Holder 0.5” Target Corner, Offset 0.5000”, Stainless Steel
- 1x 577210 Reflector Holder 0.5”, Offset 0.5000”, Shank ø 0.2500”, Body ø 0.5000”, Stainless Steel
- 1x 576131 Double Vector for TBR, Shank ø 0.2500”, Steel black oxide finish
- 1x 577120 Reflector Holder 1.5”, Offset 1.0000”, Shank ø 0.2500”, Body ø 1.000”, Stainless Steel
- 1x 577127 Reflector Holder 1.5”, Offset 1.0000”, Shankless, Body ø 1.6000”, Stainless Steel
- 1x 577137 Edge Reflector Holder 1.5”, Offset 1.0000”, Stainless Steel
- 2x 576134 Tripod Reflector Holder 1.5”
- 6x 577140 Drift Nest 1.5”, Offset 1.0000”, Aluminium.
Leica Absolute Tracker – Metric Reflector Holder Kit

Consisting of:
- 3x 577221 Reflector Holder 0.5”, Offset 12 mm, Body ø 12.7 mm, Shankless, Magnetic Base, Stainless Steel
- 1x 577202 Reflector Holder 0.5”, Offset 10 mm, Shank ø 6 mm, Body ø 12.7 mm, Stainless Steel
- 1x 577203 Reflector Holder 0.5”, Offset 10 mm, Shank ø 8 mm, Body ø 12.7 mm, Stainless Steel
- 1x 577205 Reflector Holder 0.5”, Offset 10 mm, Shank ø 12 mm, Body ø 12.7 mm, Stainless Steel
- 1x 577206 Reflector Holder 0.5”, Offset 12 mm, Shank ø 6 mm, Body ø 12.7 mm, Stainless Steel
- 1x 577207 Reflector Holder 0.5”, Offset 12 mm, Shank ø 8 mm, Body ø 12.7 mm, Stainless Steel
- 1x 577208 Reflector Holder 0.5”, Offset 12 mm, Shank ø 12 mm, Body ø 12.7 mm, Stainless Steel
- 1x 577101 Reflector Holder 1.5”, Offset 25 mm, Shank ø 6 mm, Body ø 25.4 mm, Stainless Steel
- 1x 577102 Reflector Holder 1.5”, Offset 25 mm, Shank ø 8 mm, Body ø 25.4 mm, Stainless Steel
- 1x 577104 Reflector Holder 1.5”, Offset 25 mm, Shank ø 12 mm, Body ø 25.4 mm, Stainless Steel
- 1x 577126 Reflector Holder 1.5”, Offset 25 mm, Shankless, Body ø 40.6 mm, Stainless Steel
- 1x 577136 Edge Reflector Holder 1.5”, Offset 25 mm, Stainless Steel
- 2x 576134 Tripod Reflector Holder 1.5”
- 6x 577140 Drift Nest 1.5”, Offset 1.000”, Aluminium.
LEICA T-MAC

Leica T-Mac Basic TMC30-B
The Leica T-Mac Basic is a specific developed sensor using Leica’s 6DoF technology to extend product offering. T-Mac is designed to be used in combination with robots and large machines especially for positioning with high accuracy.
T-Mac has the possibility to mount it on a robot or machine and the housing already has 4 reflector nests included. These reflector positions can be used to establish a local coordinate system for object orientation or robot alignment. As an option a tool exchange interface from Sandvick can be adapted.
The T-Mac basic consists of:
- T-Mac basic TMC30-B (576400) incl. Certificate and Transportation Case
- T-Probe Cable, 20 m (575973).

Leica T-Mac Inspect TMC30-I
The T-Mac is a 6DoF machine control probe for use with the Leica Absolute Tracker AT900 series trackers and T-Cam’s. The TMC30-I is the deluxe version of the probe for machine positioning, alignment, calibration and all inspection tasks (such as touch trigger).
The TMC30-I consists of:
- T-Mac Inspect TMC30-I (576410) incl. Certificate and Transportation Case
- T-Probe Cable, 20 m (575973)
Note: The T-Mac Inspect cable must be ordered separately (10 m - 576509, 30 m - 576510).

Leica T-Mac Upgrade Kit Basic to Inspect
This Kit allows older T-Mac’s to be upgraded in order to be used in new inspection systems. The Upgrade Kit only contains the internal hardware to convert a TMC30 to a TMC30-I, no additional cables or interfaces are included.
- Please contact service to make sure that the existing T-Mac is capable of receiving this upgrade
- T-Mac Inspect cable must be ordered separately.
576396  **Leica T-Mac multiface TMC30-M**
The T-Mac Multiface is a 6DoF machine control probe for use with any Leica 6 DoF laser tracker. The TMC30-M is the multiface version of the TMC30-I for machine positioning, alignment, calibration and all inspection tasks (such as touch trigger).

The TMC30-M consists of:
- T-Mac Multiface TMC30-M (576396) including Certificate and Transportation Case
- T-Probe Cable, 20 m (575973)

Note: T-Mac Inspect cable (576509, 576510) must be ordered separately.

576397  **Leica T-Mac Frame TMC30-F Starter Kit**
The T-Mac Frame TMC30-F Starter Kit is a configurable 6DoF machine control probe for use with any Leica 6 DoF Lasertracker. The T-Mac TMC30-F Starter Kit can be used to create customized multisided probe configurations with anywhere from 1 to 4 frames (faces). To the T-Mac Frame TMC30-F Starter Kit up to 3 additional T-Mac Frames TMC30-F (576398) can be connected in addition.

The TMC30-F Starter Kit consists of:
- T-Mac Frame TMC30-F (576398) incl. Certificate and Cardboard Transportation Box
- CPU Box for TMC30-F (805143)
- T-Probe Cable, 20m (575973)
- Connection Cable T-Mac/CPU Box, 0.6 m or 1.8 m (804823, 804824).
**Leica T-Mac Frame TMC30-F**

The T-Mac Frame TMC30-F is a configurable 6DoF machine control probe for use with any Leica 6 DoF Lasertracker. The TMC30-F can be used to create customized multisided probe configurations with anywhere from 1 to 4 frames (faces). The T-Mac Frame TMC30-F can be used to extend angular measuring range of the T-Mac Frame TMC30-F Starter Kit (576397) or an existing T-Mac Basic TMC30-B (576400) or T-Mac Inspect TMC30-I (576410). For TMC30-B or TMC30-I the Frame extension interface for T-Mac (5003434) is needed (orderable from Laser Tracker Service Unterentfelden, Switzerland, please contact ps.ch@hexagonmetrology.com).

The T-Mac Frame TMC30-F consists of:
- T-Mac Frame TMC30-F (576398) incl. Certificate and Cardboard Transportation Box
- Connection Cable T-Mac/CPU Box, 0.6 m or 1.8 m (804823, 804824)

Note: The T-Mac Frame TMC30-F does NOT include a mount for touch trigger inspection device. Please refer to 576395 Upgrade TMC30-F to Inspect.

**Frame extension interface for T-Mac**

The Frame extension interface is required to connect additional T-Mac Frame TMC30-F (576398) to an existing T-Mac Basic TMC30-B (576400) or T-Mac Inspect TMC30-I (576410). Orderable from Laser Tracker Service Unterentfelden, Switzerland only. Please contact ps.ch@hexagon.com.

**Upgrade TMC30-F to Inspect**

The Upgrade consists of the Touch Trigger Box mount and needed cables between the unit and the T-Mac Frame TMC30-F Starter Kit CPU Box. The T-Mac Inspect cable must be ordered separately.
576407 **Automation multiplex Box**
The Automation Multiplex (MUX) Box allows on machine switching between T-Mac and T-Scan for inspection purposes.

576406 **Automation Interface Controller**
The Automation Interface Controller provides handling capabilities of up to four Lasertrackers and multiple measurement devices such as T-Mac, T-Scan or external trigger source. Its digital I/O interface allows for bidirectional communication to a robotic or machine controller. Includes: Product CD, Power Cable and 5m LAN Cable (575899).

576872 **RTFP-EC, Real Time Feature Pack – EtherCAT**
The Real Time Feature Pack (RTFP) for AT930/960 Absolute Tracker (AT Controller) is designed to provide cyclic measurement data in real-time over the EtherCAT industrial fieldbus protocol. The RTFP acts as a slave in the external automation bus system. 
Note: The RTFP can be fitted in the factory or service centers only.

6004501 **TESA Touch Trigger Set for Leica T-Mac Inspect**
Allow the TMC30-I to be used for touch trigger inspection. Includes: TESASTAR RP probe head with T-Mac interface, 100mm probe extension, 5mm ruby styli, calibration sphere and accessories. - For use in an automated environment.
Active Reflector AR1
The Active Reflector AR1 is a self-orienting reflector following perfectly oriented the laser trackers beam without any manual interaction. The max. tracking distance is 40 m at a speed of 60°/second. The AR1 has a short centering cylinder (20mm diameter) as mounting interface and is battery operated. The AR1 is compatible with Leica Absolute Tracker AT930, AT960, AT402/AT403 and AT901.
Dimensions: 90 mm x 160 mm x 210 mm (3.5433in x 6.2992in x 8.2677in)
Weight: 2200 g (4.85 lbs)
The Active Reflector AR1 consists of:
- Active Reflector AR1 and Transportation Case
- Mounting Interface
- 2 AA-Battery packs (8 batteries) - rechargeable
- Battery charging station.

µ-base
The stand alone ADM is a distance measurement unit with micron level resolution. The stand alone ADM includes: Factory CD with basic measurement SW, AC powersupply, cables, Tribrach mount with fine motion screws and red transportation case.

For detailed system configuration (e.g. machine adapters, cables, etc.) please contact your local contact.
LEICA TM6100A
INDUSTRIAL THEODOLITE

**Leica TDRA6000, Laser Station**

TDRA6000 motorized industrial total station with automatic target recognition, Power Search, and reflectorless EDM. Dual face industrial keyboard and large illuminated display. Compartment for internal battery and memory card, two-axes compensator, motor controlled slow motion drives for H and V settings, friction coupling, optical sight in both faces. Including user manual, upright container and Calibration Certificate.
ADDITIONAL OPTIONS

576528  **GTS39 Optional 2nd Keyboard**  
with touch screen and color display for TM6100A instruments for telescope position 2, factory fitted.

799658  **SPF03 Screen Protection**  
Reserve or replacement touch screen protection foil for TPS6000 instruments against scratches and dust.

6013373  **TPS6000 Interface Set**  
Consists of: GDF321-I Industrial Tribrach w/o opt. Plummet, GKL341 Professional Charger 5000, MCF256 Compact Flash Card, GEV269 Data Transfer Cable Lemo1 / USB
**POWER SUPPLY**

**793975**  
**GEB242 Battery**  
Internal battery, 14.8V/5.8Ah, chargeable.

**818916**  
**GEB371 External Battery Li-ion, 13V, 250Wh, rechargeable**  
Requires GEV219, GEV220 or GEV286-I power cable to connect TPS6000 instrument. Battery Charger GEV242 774437 needs to be ordered separately to charge the battery.

**774437**  
**GEV242, Charger for GEB371 external battery,**  
for indoor use only, input 100V-240VAC 50-60HZ, output 24VDC, cable with 5-pin Lemo to connect to battery.
GEV270 Power Supply for TPS5000/6000
for indoor use only. Input 100 - 240V AC to output 13.8V DC, with connection for Power Cables. Requires GEV219, GEV220 or GEV286-I power cable to connect TPS6000 instrument.

T-Link Interface (max. total 8 instruments)
Power supply unit for TPS, for indoor use only. Input 94-265VAC to output 12VDC. Connects up to 4 TPS6000 instruments or up to 8 TPS5000 instruments.
BATTERY CHARGERS

799187  GKL341, Charger Pro 5000
Professional charger to charge up to 4x Li-Ion batteries GEB241 and GEB242, AC adapter included.

DATA STORAGE AND DATA TRANSFER

733257  MCF256, CompactFlash card
256 MB

745995  MCF1000, Compact Flash card
1GB

733258  MCFAD1, Compact Flash PC Card adapter

776240  MCR8 CF/SD/SRAM Card reader
USB Card reader for SD/CF and SRAM cards.
**POWER CABLES**

- **576521 GEV286-I, Power Cable, 20 m**
  Connects TPS6000 instrument with power supply T-Link/GEV270 or external battery GEB371.

- **758469 GEV219 Power Cable, 1.8 m**
  Connects TPS6000 instrument with power supply GEV270 or external battery GEB371.

- **759257 GEV220 Y-Cable, 2 m**
  Connects TPS6000 instrument to PC (9-pin RS232 serial) and power supply GEV270 or external battery GEB371.

- **800497 Cable Spool**
  for 20 m/40 m cables (without cable)
**DATA TRANSFER CABLES AND CONVERTER**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>733282</td>
<td><strong>GEV162 Data Transfer Cable, 2.8 m</strong> Connects TPS6000 instrument to PC for data transfer, firmware upload etc., Lemo 1 to 9-pin RS232 serial connector.</td>
<td>AT403 AT930 AT960 TDRA6000 TM6100A opt.</td>
</tr>
<tr>
<td>806095</td>
<td><strong>GEV269, serial data transfer cable, 2 m</strong> Connects TPS6000 instrument to PC for data transfer, firmware upload etc., converter cable USB to serial (Lemo 1 to USB A connector) , PC driver included on CD.</td>
<td>AT403 AT930 AT960 TDRA6000 TM6100A opt.</td>
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<td>758513</td>
<td><strong>Adapter Cable Leica TPS6000</strong> (Lemo 0 - Lemo 1), Used to convert Leica TPS5000 cables. Used to work with TPS6000 sensors on existing Leica TPS5000 cables</td>
<td>AT403 AT930 AT960 TDRA6000 TM6100A opt.</td>
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<tr>
<td>576388</td>
<td><strong>RS232 Serial – USB Adapter</strong> Used to convert 9-pin RS232 connectors into USB connections</td>
<td>AT403 AT930 AT960 TDRA6000 TM6100A opt.</td>
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<tr>
<td>707525</td>
<td><strong>GK1 Lemo Canon Converter</strong> 30°, for PC</td>
<td>AT403 AT930 AT960 TDRA6000 TM6100A opt.</td>
</tr>
</tbody>
</table>
TRIPODS

296632  GST20 Tripod Telescopic, with accessories
Robust, well-established tripod for general use.
Suitable for levels, lasers, Laser Stations and GPS.
Extendible 180 cm (5.9 ft) Weight: 6.4 kg (14.1 lb)

332200  GST4 Tripod Base
for setting up GST Tripods on smooth surfaces

575483  AT21 Aluminium Tripod
Robust, well-established tripod for general use
and 5/8” thread. Suitable for Laser Stations,
Theodolites and Laser Tracker field check equipment. Instrument height:
from 1.4 – 2.1 m (4.6 – 6.9 ft)
Weight: 11 kg (24.2 lb)

575484  AT28 Aluminium Tripod
with adjustable centre column. Robust, well-established tripod for general use and 5/8”
thread. Suitable for Laser Stations, Theodolites and Laser Tracker field check equipment.
Instrument height: from 1.4 – 2.8 m (4.6 – 9.2 ft)
Weight: 12 kg (26.4 lb)
INDUSTRIAL THEODOLITE AND LASER STATION ACCESSORIES

417677  GMT5 Measuring Slide
(Single direction) with maximum working range 40 mm; least count 0.01 mm

417678  GAD12 Adapter Set
translation stage onto any Leica tribrach; includes tribrach to mount instrument; typical adapter set for theodolites and total stations.

417679  GAD13 Adapter Set
translation stage onto 5/8" thread; includes adapter plate with 5/8" thread to mount instruments; typical adapter set for levels.

TRIBRACHS

576352  GDF 321-I, Tribrach PRO
without optical plummet, light grey

576353  GDF322-I, Tribrach PRO
with optical, plummet, light grey
**235-5 Instrument Adapter**

For Instruments with 5/8"-11 Mount Requirements

The 235-5 converts a 3½"-8 standard external instrument thread on any stand or adapter into a 5/8"-11 external thread to accommodate most theodolites or other instruments.

**Specifications**

- Effective height: 1.092" (27.7 mm) – this is the vertical distance between the lower interface surface (on this adapter, the very bottom) and the top, on which the instrument would rest.
- Internal thread: 3½"-8
- Material: Stainless steel. Approx. weight: 3lbs.

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**EYEPIECES, FILTERS, DL2 LASERS AND AUTOCOLLIMATION ACCESSORIES**

**308838 FOK53 Eyepiece**

44 x magnification at 10 m (30ft), optically adjusted and fitted in factory (only to be ordered with new instrument)

**743504 GVO13 Objective Sun-Filter**
**GFZ3 Diagonal Eyepiece**
For telescope – except T100
The included counterweight is compatible with TDRA6000. The GFZ3 diagonal eyepiece is not recommended for use on the TM6100A.

**GOK6 Eyepiece**
for steep sights, with joint allowing variable sighting angle. The included counterweight is compatible with the TDRA6000. The TM6100A requires a different counterweight 712504, which needs to be ordered separately.

**Counterweight for Leica TM5100A/TM6100A**
if steep angle GOK6 Eyepiece is attached

**GUS29 Internal Target**
for collimation measurements
(Factory fit to Leica TM5100A / Leica TM6100A)
AUTOCOLLIMATION ACCESSORIES

199899  GOA2 Autocollimation Eyepiece

394787  GEB62 Plug-In Lamp
with cable to battery

394792  GEB63 Battery Box
for autocollimation eyepiece, without 9V battery.

575725  AL51 Plug in Lamp
Leica TM5100A/TM6100A

392368  GAS1 Autocollimation mirror
ø 50 mm, in case

574822  DL2 Diode Laser Eyepiece
with user manual, in case. Not compatible with
TDRA6000 sensors.
INDUSTRIAL THEODOLITE AND LASER STATION ACCESSORIES

723231  Counterweight for TM5100(A) and T3000(A) if diode laser DL2/3 is attached.

574835  Intensity regulator for DL/3.

575498  Tripod Bracket
in order to attach accessories (battery, DL2 intensity regulator, Radio Modem) to AT21/28 tripods.

CABLES

574834  Cable 1 m
connects DL2 and Intensity Regulator

409678  GEV52 Data Cable 1.8 m
Connects DL2/3 intensity regulator to external power supply T-Link/GEV270 or external battery GEB371.
GEV86 Data Cable 20 m
Connects DL2/3 intensity regulator or TPS5000 instrument to external power supply T-Link/GEV270 or external battery GEB371.

GEV64-I Power Cable 1.2 m
connects TM6100A with DL2/3 intensity regulator.
SPATIAL ANALYZER®

POWERFUL AND TRACEABLE METROLOGY AND ANALYSIS SOFTWARE

SpatialAnalyzer® (SA) is a powerful, traceable and easy to use metrology and analysis software package, tailored for the Hexagon metrology portable CMM family.

SA offers a vast number of benefits, including:
- Intuitive, state of the art graphical environment
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- Advanced analysis and processing and unique alignment techniques
- Easy multiple instrument station bundling
- True GD&T and feature checks
- Numerous reporting options
- Measurement uncertainty calculation
- USMN to achieve the ideal instrument network
- Integrated modern Scripting Language to automate complete workflows
- Multiple language support
- Free SA Viewer to share SA job files easily

SpatialAnalyzer® makes metrology easy.

576728  Spatial Analyzer Professional (SA PRO)
576729  Spatial Analyzer Ultimate (SA UL)

For more details see
http://www.hexagonmi.com/products/software/spatialanalyzer
DCP SOLUTIONS

FOR LEICA TDRA6000 AND LEICA ABSOLUTE TRACKER AT40X

The complete solution for truly large-scale assembly and inspection based on Leica Geosystems Industrial Total Stations, provided by our Finnish partner A.M.S. and supplied by Leica Geosystems.

DCP Pocket is a mobile large volume metrology software package on a fully rugged Pocket-PC.

DCP05 is a 3D software included with every Leica TDRA6000 to quickly inspect and assemble parts, even on design data.

DCP Project gives you an analysis and job-preparation tool for all DCP05 and DCP Pocket measurements incl. mS Excel® based reporting.

DCP Pocket is a mobile large volume metrology software package on a fully rugged Pocket-PC offering:
- Wireless Sensor Communication / Data Exchange
- IP54 / 67 Standard for truly Industrial Applications
- Feature Based measurements and Reflectorless Scanning
- Sunlight readable touch screens
- Motorized and Automatic Inspection
- Data Viewer with Feature Group Display and Laser Pointer Function
- Automatic Point Recognition during move Station Process
- Compatibility with DCP Project and DCP 05 Onboard

ROBODYN

INDUSTRIAL ROBOT CALIBRATION
AND ISO PERFORMANCE TESTING

The RoboDyn robot calibration and inspection system delivers complete robotic control, making it simple to make the most of the precision, flexibility and intelligence automated systems have to offer.

With the ability to calculate robot base alignment and tool centre point offsets as well as directly correct and compensate for robot parameters, RoboDyn software is the perfect tool for improving absolute positioning and performance of robotics. Designed to meet the demands of the ISO 9283 standard, RoboDyn guarantees accuracy and reliability throughout automated operations.

RoboDyn Software
Robot Calibration, graphical simulation and ISO9283 robot performance testing
Only available with a cloud licence.
First 12 months SMA included

For more details see
ROBODYN INDUSTRIAL ROBOT CALIBRATION AND ISO PERFORMANCE TESTING

The RoboDyn robot calibration and inspection system delivers complete robotic control, making it simple to make the most of the precision, flexibility and intelligence automated systems have to offer.

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RoboDyn Software

Robot Calibration, graphical simulation and ISO9283 robot performance testing

Only available with a cloud licence.

First 12 months SMA included
NORTH AND LATIN AMERICA

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Irvine, US
Miamisburg, US
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EUROPE
- Milton Keynes, UK
- Chester, UK
- Paris, FR
- Barcelona, ES
- Orbassano, IT
- Unterentfelden, CH
- Göteborg, SE
- St. Petersbourg, RU
- Wetzlar, DE
- Prag, CZ
- Ankara, TR
- Krakau, PL

ASIA
- Bangalore, IN
- Qingdao, CN
- Seoul, KR
- Atsugi, JP
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.