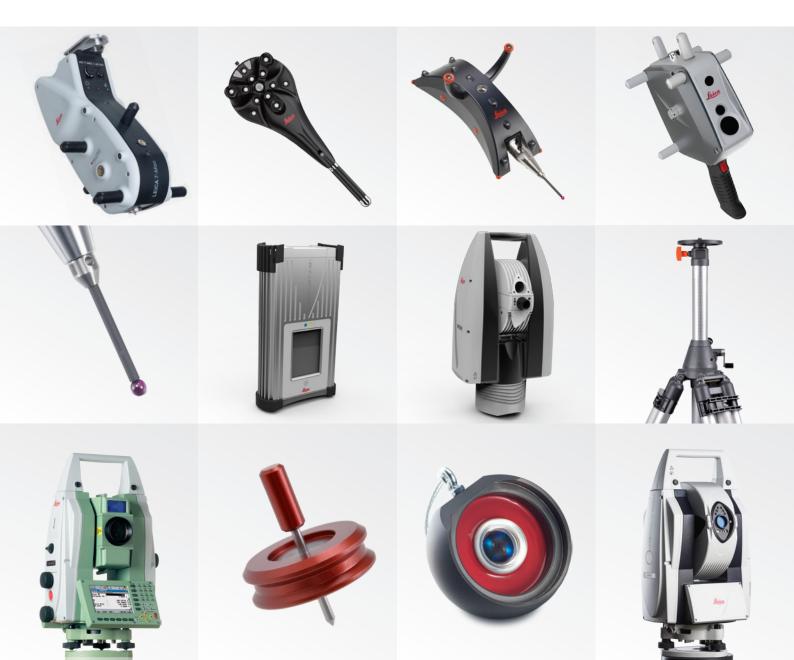
Leica Geosystems Metrology Products Catalog Version 1.3





Leica Geosystems Metrology Products Catalog Version 1.3

Notes 5

This catalog contains the complete range of products and accessories available for Leica Geosystems Absolute Trackers and Leica Geosystems Industrial Theodolites & Laser Stations. Regardless of your particular application and the Leica Geosystems Metrology Products you use, we have you covered.

All of our products and accessories offer the same top-notch, no-nonsense design and quality you expect from Leica Geosystems.

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

Sincerely,

Your Leica Geosystems Metrology Products Team

S Leica Absolute Tracker

Leica Absolute Tracker AT930

Leica Absolute Tracker AT960-MR

Leica Absolute Tracker AT960-LR

Leica Absolute Tracker AT960-XR

1 O Portable CMM

Leica T-Probe

Styli and Extensions

Compensation Tools

Power Cables and Battery

Leica T-Mac

Leica T-Cam with Accessories

Leica T-Scan 5 with Accessories

Leica T-Scan with Accessories

26 Leica Absolute Tracker Accessories

Tracker Stand

Cables and UPS

Remote Control Equipment

Levelling Equipment

Overview Camera Equipment

MeteoStation and Accessories

Measuring Cart and Shipping Container

36 Leica Absolute Tracker AT402

Leica Absolute Tracker AT402

AT Controller 400

Leica B-Probe

Power Supply

Remote Control Equipment

Cables

Tripods and Stands

Tribrachs

44 Reflector

Corner Cube

Tripleprism Reflector

Tape Target Reflector

Special Reflectors and Holders (Leica TDRA6000 only)

Targets for Multiple Theodolite Systems

Compensation and Field Check Tools

Reflector Holders

55 Reflector Holders

1.5" Reflector Holders

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Cables

78 Metrology Software

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DCP Solutions

- 82 Leica Geosystems Service Centers
- 84 Hexagon Metrology Precision Centers





Leica Absolute Tracker

576 861 Leica Absolute Tracker AT930

Absolute Tracker AT930 with Absolute Interferometer.

Distance range 80 m*

The system consists of:

- AT930 Absolute Tracker incl. transportation case
- AT Controller (576 871)
- MPS21, Power Supply Unit (576 873)
- MCS11, Sensor Cable 1.5m (576 885)
- AT Quick Release Mount incl. Mandrel (576 338)
- MCA18, External Temperature Sensor 2m (576 888)
- Red-Ring Reflector (RRR) 1.5" (575 784)
- MSI26, Universal Stand Fixture (576 895)
- MAT33, Optical Cleaning Kit (576 898)
- Protective Sensor Cover

576 864 Leica Absolute Tracker AT960-MR

Absolute Tracker AT960-MR with Absolute Interferometer Distance range 40m and Probing range 20m.

576 863 Leica Absolute Tracker AT960-LR

Absolute Tracker AT960-LR with Absolute Interferometer Distance range 160m* and probing range 40m.

576 862 Leica Absolute Tracker AT960-XR

Absolute Tracker AT960-XR with Absolute Interferometer Distance range 160m* and probing range 60m*.

The systems 576 864, 576 863 and 576 862 consist of:

- AT960-MR, -LR or -XR Absolute Tracker incl. transportation case
- AT Controller (576871)
- MPS21, Power Supply Unit (576 873)
- MCS11, Sensor Cable 1.5m (576 885)
- AT Quick Release Mount incl. Mandrel (576 338)
- MCA18, External Temperature Sensor 2m (576 888)
- Red-Ring Reflector (RRR) 1.5" (575 784)
- MSI26, Universal Stand Fixture (576 895)
- MAT33, Optical Cleaning Kit (576 898)
- Protective Sensor Cover

^{*} typical measurement volume (Ø)

Leica Absolute Tracker Controller

AT402 AT930 std. AT960-MR std. AT960-LR std. TDRA6000 TM6100A

AT402 AT930 std. AT960-MR std. AT960-LR std. TDRA6000 TM6100A

576 871 Leica AT Controller

The Leica AT Controller is compatible with Leica Absolute Tracker AT930 / AT960 series. The 576 873 MPS21 Power Supply Unit and 576 895 MSI26, Universal ATC Stand Fixture has to be ordered separately.

576 895 MSI26, Universal ATC Stand Fixture

The Universal AT Controller Stand Fixture with reusable Velcro strap (0.52m) is compatible with:

- AT Controller (576 871, 576 368)
- MPB25, Battery external Li-Ion 42V/7.4Ah (576 875)









576 186 Leica T-Probe

3rd generation Leica T-Probe 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 is up to 15 m in all directions. The Leica T-Probe comes with

- ruby ball stylus d=6 mm
- Leica T-Probe Stylus Adaptor
- Stylus Compensation Tool
- 20m Cable
- Power Supply for Battery
- Replacement Battery
- Transportation Case

AT930 AT960-

AT960-MR AT960-LR

TDRA6000 TM6100A opt. opt.



Styli & Extensions

576 231 Leica T-Probe Styli Kit

Recommended stylus kit for Leica T-Probe 2nd generation. Comes with 5 different styli:

- Scribe Stylus r=0.1 mm M2
- Ruby Ball Stylus d=3 mm M5
- Ruby Ball Stylus d=6 mm M5
- Ceramic Hemispherical Stylus d=0.5 in M5
- Ceramic Hemispherical Stylus d=1.5 in M5

3 styli extensions:

- 100 mm M5 Carbon Fibre stem d=20 mm
- 200 mm M5 Carbon Fibre stem d=20 mm
- 40 mm M5 Carbon stem d=11 mm

2 Leica T-Probe Stylus Adaptors - M5 with precision Quick Release for Self Identification, Stylus Tools for M2-M3/M4/M5 Threaded Styli and Leica T-Probe Styli Kit Case AT930 AT960-MR AT960-LR

TDRA6000

opt.

AT960-MR opt. AT960-LR opt. 576 211 Leica T-Probe Styli Kit Case

For standard configuration (empty)



AT960-MR opt. AT960-LR opt.

Leica T-Probe Stylus Adaptor - M5 576 212

> Precision quick release adaptor for Leica T-Probe styli to remove and attach styli without re-calibration. The stylus adaptor has built in intelligence to support stylus self identification



AT960-MR AT960-LR

opt.

opt.

opt.

opt.

576 403

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



AT960-MR AT960-LR

576 408

Replacement Tip to Punch Tool 576 403

576 213 Stylus Extension 100 mm - M5

carbon fibre - stem ø 20 mm

576 214 Stylus Extension 200 mm - M5

carbon fibre - stem ø 20mm

576 215 Stylus Extension 400 mm - M5 carbon fibre - stem ø 20 mm

576 216 Stylus Extension 600 mm - M5

carbon fibre - stem ø 20 mm













576 217 Stylus Extension 40 mm - M5 carbon - stem ø 11 mm

Stylus Extension 100 mm - M5 carbon - stem ø 11 mm

576 219 Scribe Stylus - M2 r=0.1 mm

576 218

576 220 Ruby Ball Stylus M5 ø3 mm

Ruby Ball Stylus M5 576 221 ø6mm

Cylindrical Stylus - M2 22.5 mm 576 248 ø3 mm

AT930

AT960-MR AT960-LR

AT960-MR AT960-LR

AT960-MR AT960-LR

AT930

AT960-MR AT960-LR

AT930

AT960-MR AT960-LR

opt.

opt.

opt.

opt.

opt. opt.

> opt. opt.

> > opt.

opt.

AT402 AT930 AT960-MR AT960-LR TDRA6000 TM6100A	opt.	576 222	Edge Stylus – M5 comes with Edge Sphere 0.5", Magnetic Stylus M5 and Compensation Sphere 0.5"	
AT402 AT930 AT960-MR	opt.	576 223	Stylus Tool for M2 and M3 threaded styli	
AT960-LR TDRA6000 TM6100A	opt.	576 224 576 225	Stylus Tool for M4 threaded styli Stylus Tool for M5 threaded styli	
AT402 AT930 AT960-MR AT960-LR TDRA6000 TM6100A	opt.	576 226	Stylus Adaptor M5 – M2	
AT402 AT930 AT960-MR AT960-LR TDRA6000 TM6100A	opt. opt.	576 227	Stylus Adaptor M5 – M4	
AT402 AT930 AT960-MR AT960-LR TDRA6000 TM6100A	opt.	576 228	Stylus Adaptor M4 – M5	









576 143 Ceramic Hemispherical Stylus M5

ø 12.7 mm (0.5 in)

576 144 Ceramic Hemispherical Stylus M5

ø 38.1 mm (1.5 in)

AT402 AT930

AT960-MR AT960-LR

DRA6000

opt.

Compensation Tools

576 899 MAC34, T-Probe Stylus Compensation Tool

The MAC34 T-Probe Stylus Compensation Tool 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 (576 247).

AT402 AT930 AT960-MR AT960-LR

opt. opt.

576 900 MAC35, Magnetic Device for MAC34

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. AT930 AT960-MR AT960-LR

opt. opt.

576 247 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.

AT402 AT930 AT960-

AT960-MR AT960-LR TDRA6000 opt.

Power Cables and Battery

AT930	
AT960-MR	opt.
AT960-LR	opt.
TDRA6000	
TM6100A	

575 972 Cable Leica T-Probe, 10 m

Reserve or replacement cable 10 m for the Leica T-Probe

575 973 Cable Leica T-Probe, 20 m

Reserve or replacement cable 20 m for the Leica T-Probe

576 185 Cable Leica T-Probe, 50 m

Reserve or replacement cable 50 m for the

Leica T-Probe



575 983 **Leica T-Probe Replacement Battery**



734 195

Leica T-Probe Battery Charger

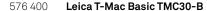












The Leica T-Mac Basic is a specific developed sensor using Leica Geosystems' 6DoF technology to extend product offering. Leica T-Mac is designed to be used in combination with robots and large machines especially for positioning with high accuracy. Leica T-Mac has the possibility to mount it on a robot 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.

AT960-MR AT960-LR

opt. opt.

576 410

Leica T-Mac Inspect TMC30-I

The Leica T-Mac Inspect is a 6DoF machine control probe for use with the Leica Absolute Tracker AT9xx series and Leica T-Cams. The Leica TMC30-I is the deluxe version of the probe for machine positioning, alignment, calibration and all inspection tasks (such as touch trigger or scanning). The Leica TMC30-I includes: Factory Parameter CD, User Manuals, Red Transportation Case and 20 m Basic Interface Cable. Leica T-Mac Inspect Cable must be ordered separately

AT960-MR AT960-LR

opt. opt.

576 404

Leica T-Mac Upgrade Kit Basic to Inspect

This kit allows older Leica T-Macs to be upgraded in order to be used in new inspection systems. The upgrade kit only contains the internal hardware to convert a Leica T-Mac TMC30 to a Leica T-Mac TMC30-I, no additional cables or interfaces are included.

Please contact service to make sure that the existing Leica T-Mac is capable of receiving this upgrade. Leica T-Mac Inspect Cable must be ordered separately.

AT960-MR AT960-LR

opt. opt.



AT402 AT930

AT960-MR AT960-LR

TDRA6000 TM6100A 576 396

opt.

opt.

T-Mac Multiface TMC30-M

The T-Mac Multiface is a 6DoF machine control probe for use with any Leica 6 DoF Lasertracker. 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 includes:

Factory Parameter CD, User Manuals, Transportation Case and 20 m Basic Interface Cable. T-Mac Inspect cable (576 509, 576 510) must be ordered separately.



AT402 AT930

AT960-MR AT960-LR

R opt.

opt.

576 397 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 (576 398) can be connected in addition. The TMC30-F Starter Kit includes: One single T-Mac Frame TMC30-F with the CPU box, Factory Parameter CD, User Manuals, Cardboard Transportation Boxes and 20 m Basic Interface Cable.





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 (576 397) or an existing T-Mac Basic TMC30-B (576 400) or T-Mac Inspect TMC30-I (576 410). 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 includes:
One T-Mac Frame TMC30-F with Factory Parameter CD and the needed cable with a D - Sub
15 Pin plug. The T-Mac Frame TMC30-F does
NOT include a mount for touch trigger inspection device. Please refere to 576 395 Upgrade
TMC30-F to Inspect.

AT960-LR TDRA6000 TM6100A

AT960-MR

opt.

5003 434 Frame extension interface for T-Mac

The Frame extension interface is required to connect additional T- Mac Frame TMC30-F (576 398) to an existing T-Mac Basic TMC30-B (576 400) or T-Mac Inspect TMC30-I (576 410). Orderable from Laser Tracker Service Unterentfelden, Switzerland only. Please contact ps.ch@hexagonmetrology.com

AT402 AT930

AT960-MR AT960-LR

opt. opt. AT402 AT930 AT960-MR opt. AT960-LR opt. TDRA6000 TM6100A 576 406 Automation Interface Controller

The Automation Interface Controller handles all of the switching for an automated machine control/inspection system consisting of multiple trackers, multiple probe devices and machine controller Digital I/O interfaces.

Includes: Product CD, Power Cables and 5 m LAN Cable



AT402 AT930 AT960-MR opt. AT960-LR opt. TDRA6000 TM6100A

576 407 **Automation Multiplex Box**

The Automation Multiplex (MUX) Box allows on machine switching between the Leica TMC30-I and a Leica T-Scan for inspection purposes. Includes: 45 m MUX-Interface Cable (between the MUX Box and Automation Interface Box) and 1 m I aser Controller Cable



AT402 AT930 AT960-MR opt. AT960-LR opt. TDRA6000 TM6100A 576 395 Upgrade TMC 30-F to Inspect

The Ugrade 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.



576 392 Automation Robot Interface Kit

The Automation Robot Interface kit package includes everythig required to mount a T-Scan and/or a T-Mac on a robot or NC machine. It contains in detail:

- Mechanical T-Scan adapter
- Mechanical T-Mac adapter
- Connection adapter to robot or machine (i.e. HSK63A)
- Set of connection cables for automated use

AT402 AT930

AT960-MR AT960-LR

TDRA6000 TM6100A opt.

576 394 Laser Controller upgrade

to use T-Scan as a manual and automated system without reconfiguration of the general hardware setup.

AT402 AT930

AT960-MR AT960-LR

DRA6000 M6100A opt. opt.

576 411 Ether CAT real time interface for ATC900

consisting: EtherCAT Board, license key, firmware upgrade, 3 days training at Unterentfelden. Compatible with Leica Absolute Tracker AT901.

AT402 AT930 AT960-MI AT960-LF AT960-MR AT960-LR

opt.

opt.

opt.

opt.

opt.

opt.

6004 501

TESA Touch Trigger Set for Leica T-Mac Inspect

allows the Leica T-Mac TMC30-I to be used for touch trigger inspection. Includes: TESASTAR-rp probe head with Leica T-Mac Interface, 100 mm Probe Extension, 5mm Ruby Styli, Calibration Sphere and accessories. Note: For use in an automated setup an additional Automation Interface Box and required cables must be ordered as well



AT960-MR AT960-LR

576 509

Leica T-Mac Inspect TMC30-I Cable, 10 m

for connecting the Leica T-Mac Inspect TMC30-I to the Automation Interface Box or MUX box directly



AT402

AT960-MR AT960-LR

576 510

Leica T-Mac Inspect TMC30-I Cable, 30 m

for connecting the Leica T-Mac Inspect TMC30-I to the Automation Interface Box or MUX box directly









576 507 Trigger Cable, 2 m

for connecting the Automation Interface Box to the Laser Tracker Controller (ATC900). Compatible with Leica Absolute Tracker AT901. T402 T930 T960-MR T960-LR DRA6000

576 508 Trigger Cable, 25 m

for connecting the Automation Interface Box to the Laser Tracker Controller (ATC900). Compatible with Leica Absolute Tracker AT901. AT402 AT930 AT960-MR AT960-LR TDRA6000

576 505 Automation Robot Cable, 20 m

for connecting the Automation Interface Box to the robotic or NC machine controller

AT402 AT930

AT960-MR AT960-LR

DRA6000

opt.

576 506 Automation Robot Cable, 50 m

for connecting the Automation Interface Box to the robotic or NC machine controller

AT40

AT960-MR AT960-LR

TDRA6000

opt.

T-Scan 5 with Accessories

AT402 AT930 AT960-MR opt. AT960-LR opt. TDRA6000 TM6100A 576 187 **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
- MCA36, T-Scan Trigger/Probe Y-Cable 2 m (576 191)
- LAN Cable 2 m (RJ-45)
- MAP39, Horizontal Scanner Holder (576 188)
- MAC41, Reference Sphere ø 50 mm (576 190)
- T-Collect Interface Software



AT402 AT930 AT960-MR AT960-LR TDRA6000 TM6100A 576 191 MCA36, T-Scan Trigger/Probe Y-Cable 2 m

The MCA36 T-Scan Trigger/Probe cable connecting the T-Scan 5 Controller to the AT Controller 900 (Probe-/ Trigger-Port) 576 310. Compatible with Leica Absolute Tracker AT901.



576 193 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 10 m to a total T-Scan 5 sensor cable length configuration of 20 m (10 m + 10 m).

576 194 MCA42, Scanner Cable 2 m

The MCA42 Scanner Cable 2 m connecting the T-Scan 5 Controller (819 828) to the Automation Interface Controller (576 406).

AT402 AT930 AT960-MR AT960-LR

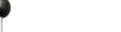
opt.



576 188 MAP39, Horizontal Scanner Holder

576 189 MAM40, Vertical Scanner Holder

The MAM40, Vertical Scanner Holder mounts to the Metrology Measurement Cart (576 181)



576 190 MAC41, Reference Sphere Ø 50 mm

Reference Sphere \emptyset 50 mm with magnetic base for field check and alignment checks of the T-Scan system.

576 902 MAA 46, T-Scan Elbow Adapter

Leica T-Scan with Accessories

AT402 AT930 AT960-MR AT960-LR TDRA6000 TM6100A

576 383 Leica T-Scan TS50-A

Laser Scanner complete

- Sensor head with integrated reflectors, handle and cable
- Transportation box
- Scanner-calibration-files (CD-ROM)
- Scanner certificate
- Leica T-Scan controller unit
- Leica T-Scan interface kit
- Trigger cable (LTC plus to T-Scan Controller)
- Leica T-Scan Cable (rack to LTC plus [Probe])
- Sub-D Cable (9-pin, 2 m)
- Cross over ethernet Cable 2 x 1m
- Leica T-Scan holder set
- Vertical holder with shield
- Horizontal Holder including Instant Temperature Compensation Kit
- SWT-Scan Collect
- Data collection. 3D online visualization of measurements
- Display of points, meshes or shaded meshes
- Import and export 3D-data (points, STL)
- Alignments of coordinate systems, 3D-filter Toolset, advanced cloud editing functions
- Global surface matching of point clouds
- Meshing tool
- Data post processing (programmable)
- Profile calculation
- Menu to verify accuracy, menu for calibration
- Optional visualization of hand scanner
- Compatible with Leica Absolute Tracker AT901 and older

576 047

Reference Sphere with Certificate Ø 100mm

Reference Sphere with 100 mm diameter for field check and alignment checks of the Leica T-Scan system













Stands, Tripods & Interfaces

576 881 MST27, Stand Tube Extension

Designed for AT930 / 960 Absolute Tracker. The stand tube extension fits on the Leica Tracker Stand (575997), which has to be ordered separately.

576 901 MST36, Portable Metrology Tripod (Carbon)

Designed for Leica Absolute Tracker and Romer 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 (3.5"x8 thread)
- 1x Instrument adapter for AT40x and TPS6000 (5/8" thread)
- 1x Instrument adapter for Romer Absolute Arms (3.5"x8 thread)
- 3x integrated fixture positions for AT Controllers (576871, 576368) or MPB25, Battery external Li-Ion 42V/7.4Ah (576875)
- Adjustable Height: 83 118 cm (32.6 46.5")
- Weight: 14.2 kg (31.3 lb)

576 904 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.

575 997 Leica Tracker Stand

The Leica Tracker Stand is equipped with three levelling screws and shock absorbing wheels

AT930 AT960-MR AT960-LR

opt. opt. opt.

AT930 AT960-MR

AT960-LR

opt. opt. opt.

AT930 opt. AT960-MR opt. AT960-LR opt.



AT402 ΔT930 AT960-MR AT960-LR

opt. opt. opt.

AT402 AT930 AT960-MR AT960-LR TDRA6000 TM6100A 576 906

6 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" (101.6 cm) long x 12" (30.5 cm) wide x 12" (30.5 cm) tall and is nicely branded with an embroidered Hexagon logo.



AT930 AT960-MR AT960-LR

opt. opt. opt.

opt.

opt.

opt.

576 349 **Aluminum Tripod AT08**

for easy demos, increased portability and reduction of total system weight. Aluminum Tripod for Leica Absolute Tracker with 3.5" x 8 thread interface. The tripod interface is compatible with 576 338 AT Quick Release Mount. Tripod height (working position): 815 mm (fix) Tilting axis height: 1430 mm Dimensions: 25 x 25 x 100 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



AT402 AT930

AT930 opt. AT960-MR opt. AT960-LR opt.

TDRA6000 TM6100A 576 338 AT Quick Release Mount

AT Quick Release for mounting a Leica Absolute Tracker on 576 337 AT Stand Extension, 576 336 AT Mounting Plate or any other compatible instrument stand with 3.5" x 8 thread adapter









576 336 AT Mounting Plate

allows to mount the Leica Absolute Tracker onto machine beds. The AT mounting plate does not include 576 338 AT Quick Release Mount, which is required

576 339 AT Magnetic Mount

allows to mount the Leica Absolute Tracker onto a magnetic surface. The AT Magnetic Mount does not include 576 338 AT Quick Release Mount and 576 336 AT Mounting Plate, which is required

Cables

576 885 MCS11, Sensor Cable 1.5m

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

576 886 MCS12, Sensor Cable 10m

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

576 887 MCS13, Sensor Cable 30m

AT930/960 Sensor Cable, 30m. Connects ATC900 Controller to AT930/960 Absolute Tracker.

576 888 MCA18, External Temperature Sensor 2m

The MCA18 External Temperature 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 2m 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

AT402 AT930 AT960-MR AT960-LR TDRA6000

opt. opt. opt.

AT930 AT960-MR AT960-LR TDRA6000

opt. opt. opt.

Power Supply, UPS

AT402
AT930 opt.
AT960-MR opt.
AT960-LR opt.
TDRA6000
TM6100A

576 873 **MPS21, Power Supply Unit 576 871**

Power Supply unit for AT930/960 Absolute Tracker connects to ATC900 Controller (576 871). Input 80-264VAC to output 48VDC. The Power Supply Unit is compatible with 576 871 AT Controller and 576 875 MPB25, Battery external Li-Ion 42V/7.4Ah. For indoor use only.

6

AT402
AT930 opt.
AT960-MR opt.
AT960-LR opt.
TDRA6000
TM6100A

576 875

MPB25, Battery external Li-Ion 42V/7.4Ah

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 576 873 MPS21 Power Supply Unit is required (to be ordered separately). To mount the battery on stand/tripod the 576 895 MSI26, Universal ATC Stand Fixture has to be ordered separately.



AT402 AT930 opt. AT960-MR opt. AT960-LR opt. TDRA6000 TM6100A 575 992 Uninterrupted Power Supply UPS (220 Volt)

Power VA / W: 1100 / 700, input voltage tolerance: 160V / 294V adjustable to 150V / 294V via supplied UPS-driver software, frequency: 50 / 60 HZ auto-select, output voltage on battery power: 230V (adjustable to 200 / 220 / 240V vial supplied UPS-driver software, dimensions: $44 \times 438 \times 499$ mm, weight: 16 kg



AT402 5/5
AT930 opt.

AT960-MR opt. AT960-LR opt. TDRA6000 575 993 Uninterrupted Power Supply UPS (110 Volt)

Power VA / W: 1100 / 700, Input voltage tolerance: 92V / 138V adjustable to 80V / 153V via supplied UPS-driver software, frequency: 50 / 60 HZ auto-select, output voltage on battery power: 120V (adjustable to 100 / 120 / 127V vial supplied UPS-driver software, dimensions: $44 \times 437 \times 498$ mm, weight: 16 kg







576 889 MCA19, External Temperature Sensor 10m

The MCA19 External Temperature 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 ø4.2mm to fix it to

the object. Parameter: Temperature range: -20...+80°C

Accuracy:

Temperature: ± 0.3°C

576 890 MCA20, External Temperature Sensor 30m

The MCA20 External Temperature 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

576 192 MCA37, Automation Trigger Cable 2m

The MCA37 Automation Trigger cable connecting the T-Scan 5 Controller to the Automation Interface Controller (576 406).

576 194 MCA42, T-Scan Controller Autom.-Cable 2m

The MCA42 T-Scan Controller Automation Cable 2m connecting the T-Scan 5 Controller (819 828) to the Automation Interface Controller (576 406).

AT402 AT930 AT960-MR AT960-LR

TDRA6000

opt. opt. opt. AT402 AT930 AT960-MR AT960-LR TDRA6000 TM6100A

opt.

opt.

opt.

576195 MCA43, Automation Scanner Cable 50m

The MCA43 Automation Scanner Cable 50 m connecting the T-Scan 5 (robot adapter) to the Automation Interface Controller (576 406) or to the Automation Multiplex Box (576 407)

576196 MCA44, Automation Scanner Cable 10m

The MCA44 Automation Scanner Cable 10m connecting the T-Scan 5 sensor (robot adapter) to the Automation Interface Controller (576 406) or to the Automation Multiplex Box (576 407)

576197 MCA45, T-Scan Sensor Autom. - Cable 50m

The MCA45 T-Scan Sensor Automation Cable 50m connecting the T-Scan 5 (robot adapter) to the T-Scan 5 Controller (819 828).

576878 MCA48, Automation Trigger/Probe Y-Cable

The MCA48, Automation Trigger/Probe Y-Cable connecting the AT960 Tracker Controller with the Automation Interface Controller (576 406). The y-ends of the cable must be extended with the standard T-Probe Cable (575 972, 575 973, 576 185) and Trigger Cable (576 507, 576 508) > to be ordered separately

576879 MCA49, Automation Interface Cable 50m

The MCA49, Automation Interface Cable 50m connecting the Automation Interface Controller (576 406) to the Automation Multiplex Box (576 407)

576903 MCA47, T-Scan Trigger/Probe Cable 2m

Connects AT960 Tracker Controller with T-Scan 5 Controller unit.

575 899 LAN Cable RJ-45, 5 m

LAN cable to connenct Laser Tracker with application computer

Remote Control Equipment





575 757 Wireless RF Control

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

AT402	opt.
AT930	opt.
AT960-MR	opt.
AT960-LR	opt.
TDRA6000	opt.
TM6100A	opt.

575 965 Wireless IR Control

Receiver and infrared Remote Control. Set with product CD

AT402	opt.
AT930	opt.
AT960-MR	opt.
AT960-LR	opt.
TDRA6000	opt.
TM6100A	opt.

Compensation & Field Check Tools

576 893 MAC55, Invar Reference Bar 1000mm

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 lenght uncertainty of +/-0.007mm (+/- 0.0003")
- Certificate inclueded
- Case with contour-cut foam cushion interio
- Weight: Bar alone, x kg (x lbs); bar and case, x kg (x lbs)

AT402 opt.
AT930 opt.
AT960-MR opt.
AT960-LR opt.
TDRA6000
TM6100A



For Apple Devices (iPodTouch, iPads, iPhones) a free AT Remote App available from Apple App Store.

576 894 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.

576 898 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 AT930/960 Sensor optics and as well the Leica Reflectors. The Kit consists of:

- 1x Dust ex blower (167 119)
- 2x Cleaning tissues (771 349)
- 8x Cleaning swabs, larg (758 346)
- 5x Cotton swabs, small (724 954)
- 1x Cleaning brush (822 420)
- 1x Cleaning kit bag (821 236)





Measuring Cart and Shipping Container

576 891 MTC51, AT930/960 Transport Container

The Transport Container can hold:

- AT930/960 Absolute Tracker (576 861, 576 863,576 864)
- AT Controller (576871)
- MPS21, Power Supply Unit (576 873)
- MCS11, Sensor Cable 1.5m (576 885)
- AT Quick Release Mount incl. Mandrel (576 338)
- MCA18, External Temperature Sensor 2m (576 888)
- Red-Ring Reflector (RRR) 1.5" (575 784)
- MSI26, Universal Stand Fixture (576 895)
- MAT33, Optical Cleaning Kit (576 898)
- Protective Sensor Cover

Empty Transport Container only. Accessories to be ordered separately.





576 348 Rack Mount Light Duty Case

The case is a light duty rolling rack unit. It has dual lids and rollerblade type wheels. The rack mount light duty case is versatile and can be equipped with e.g. a Leica AT Controller 900 or Leica T-Scan Controller or any other computer equipment, which fits the 4 unit height and 19" width rack system

Exterior depth: 57.785 cm (22.75 in) Exterior width: 54.610 cm (21.50 in) Exterior height: 27.305 cm (10.75 in)

Rack space units: 4 U

Rack depth (rail to lid): 48.260 cm (19.00 in) Rack depth (rail to rail): 42.545 cm (16.75 in)

Lid depth: 5.715 cm (2.25 in) Weight: 7.711 kg (17 lb) AT402 AT930 AT960-MR AT960-LR TDRA6000

opt. opt. opt.

576 896

MMC31, Metrology Measurement Cart

The MMC31 Cart is compatible for AT901 and AT930/960 Absolute Tracker. For the AT930/960 special controller fixture is included. Contains a shock absorbing 19" rack mounting for installation of controllers, UPS, and high speed computer. The rack mounting compartment is temperature regulated (build-in fan). The cart can be used like a regular measuring cart and in addition it can be reconfigured to a shuttle cart. The drawers are equipped with preconfigured foam inlays for storing accessories like reflectors, reflector supports, meteo stations, 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



576 897

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.











576 369 Leica Absolute Tracker AT402

including:

- Leica AT402 sensor
- AT Controller 400
- MCS17 1.8 m Sensor cable
- MCA15 2 m External temperature sensor
- Tribrach
- IR Remote Control
- LAN cable
- MSI26 Universal stand fixture
- 2 batteries
- Battery charger
- AC adapter
- Calibration certificate
- Compensation SW
- Transportation box

6009765 AT402 Probing System

Absolute Tracker AT402 bundled with B-Probe

Transportation Case

576 520 MTC56 AT402 Trolley Case

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

Fixture.

AT402

AT930 AT960-MR AT960-LR TDRA6000



576 368 **AT Controller 400**

The AT Laser Tracker Controller 400 unit is used with the Leica Absolute Tracker AT402

AT402

AT960-MR AT960-LR TDRA6000





opt.

576 895 MSI26 Universal Stand Fixture

The Universal AT Controller Stand Fixture with reusable Velcro strap (0.52m) is compatible with:

- AT Controller (576 871, 576 368)
- MPB25, Battery external Li-Ion 42V/7.4Ah (576 875)

Leica B-Probe

AT402 opt.

AT930 AT960-MR AT960-LR TDRA6000 TM6100A 576 511 **Leica B-Probe**

The Leica B-Probe is an entry level, portable and wireless probing solution.

The Leica B-Probe comes with

- Steel ball stylus 12,7 mm (0.5"),
- Stylus compensation tool,
- Stylus tool,
- Micro-USB cable,
- Calibration Certificate,
- 4 X AAA batteries
- Transportation case

Leica B-Probe Accessories

576 217 40 mi	m Extension
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576 218 100mm Extension

576 221 Ruby Ball Stylus 6mm

576 514 Steel ball stylus

 $D = 12,7 \text{ mm } (0.5)^{\circ}, L = 55 \text{ mm}$

576 225 Stylus tool for M5 threaded styli

576 512 **B-Probe Stylus Compensation Tool**

576 515 Quick-charger Powerline 4

for AAA-batteries (EU, US, UK), cannot be delivered to all countries

576 513 USB - micro-USB cable for B-Probe

Firmware updates via PC











Power Supply



793 975 **GEB242 Battery**

Internal Li-Ion battery, 14.8V, 5.8 Ah

AT402	opt.
AT930	
AT960-MR	
AT960-LR	
TDRA6000	opt.
TM6100A	opt.

799 187 **GKL341 multiple-bay charger Professional 5000**

Multi-bay charger for up to 4x Li-Ion batteries GB241/GEB242. The refresh functionality allows to re-align the battery capacity displayed after extensive usage. AC Adapter included.





799 185 **GKL311 single-bay charger Professional 3000**

Charger for one Li-Ion battery GEB241/GEB242, including AC Adapter and 12V car adapter.

AT402	opt.
AT930	
AT960-MR	
AT960-LR	
TDRA6000	opt.
TM6100A	opt.



576 377 **MPS10 PoE+ Set**

The MPS10 PoE+ Set configuration provides electrical power, along with data, from the PC to the Leica Absolute Tracker AT402 over standard category 5m cable in an ethernet network. Content: PoE+ midspan, PoE+ module, 5 m ethernet cable

T402	opt
T930	
T960-MR	
T960-LR	
DRA6000	
M6100A	

Remote Control Equipment

AT402 opt. AT930 AT960-MR AT960-LR TDRA6000 TM6100A

576 379 AT Remote Control 400

The wireless infra-red control unit is compatible with Leica Absolute Tracker AT402 and ATC400.

Content: Remote Control unit, 2 AAA-batteries



AT402	opt.
AT930	opt.
AT960-MR	opt.
AT960-LR	opt.
TDRA6000	opt.
TM6100A	opt.

Wireless Infrared Remote Control

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



AT402 opt. AT930 opt. AT960-MR opt. AT960-LR opt. TDRA6000 opt. TM6100A opt.

575 757 Wireless RF Control

575 965

Wireless Radio Frequency Remote Control (2.4GHz), 4 custom programmable buttons, up to 45m/150ft 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



576 376 MCS17, 1.8 m Sensor Cable

compatible with Leica Absolute Tracker AT402 and ATC400

AT402

576 350 MCA15, 2 m External Temperature Sensor

Temperature: ± 0.2°C

The MCA13 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 8 x 8 x 40 mm with a borehole ø 4.2 mm to fix it to the object. It can be used as an air- and/or object- sensor. Temperature range: -20...+50°C

AT402 AT930 AT960-MR AT960-LR

opt. opt. opt. opt.

opt.



576 351 MCA14, 10 m External Temperature Sensor

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 8 x 8 x 40 mm with a borehole ø 4.2 mm to fix it to the object. It can be used as an air- and/or object- sensor. Temperature range: -20...+50°C

Temperature: ± 0.2°C

AT402 AT930 AT960-MR AT960-LR

opt. opt. opt.

opt.

opt.

opt.

opt.

opt.

575 899

LAN Cable RJ-45, 5 m

LAN Cable to connect Laser Tracker with application computer

AT402 AT930 AT960-MR AT960-LR



Tripods and Stands

AT402	opt.
AT930	
AT960-MR	
AT960-LR	
TDRA6000	opt.
TM6100A	opt.

575 483 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)



575 484 AT28 Aluminium Tripod

with adjustable centre column. Robust, wellestablished 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)



576 349 AT08 Aluminum Tripod

for easy demos, increased portability and reduction of total system weight. Aluminum Tripod for AT Laser Tracker with 3.5" x 8 thread interface.

The tripod interface is compatible with 576 338 AT Quick Release Mount.

Tripod height (working position): 815 mm (fix)
Tilting axis height: 1430 mm

Dimensions: 25 x 25 x 100 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



577 261

3½"x 8 to 5/8"x 11 Adapter

To mount a TPS or AT402 sensor on a heavy duty "Brunson" type stand











576 354 MAS16 Stand Adapter

fits on the AT Stand Extension from the Leica Absolute Tracker AT901. The Stand Adapter is designed in such way, that the tilting axis of the Leica Absolute Tracker AT402 is at the same height as the Leica Absolute Tracker AT901 when used on the AT Stand Extension

AT402	opt.
AT930	
AT960-MR	
AT960-LR	
TDRA6000	opt.
TM6100A	opt.

576 337 AT Stand Extension

575 997 Leica Tracker Stand

296 632 **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)

332 200 GST4 Tripod Base

for setting up GST Tripods on smooth surfaces





Tribrachs

AT402	opt.
AT930	
AT960-MR	
AT960-LR	
TDRA6000	opt.
TM6100A	opt.

576 352 **GDF 321-I, Tribrach Pro**

without optical plummet, light grey



AT402	opt.
AT930	
AT960-MR	
AT960-LR	
TDRA6000	opt.
TM6100A	opt.

576 353 GDF322-I Industrial Tribrach

with optical, plummet, light grey





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

AT402 AT930 AT960-MR AT960-LR TDRA6000 opt. opt. opt. opt. opt.

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

AT402 AT930 AT960-MR AT960-LR opt. opt. opt. opt.

TDRA600 TM6100A

567 311

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

AT402 AT930 AT960-MR AT960-LR

opt. opt. opt. opt.

All Red-Ring reflectors are also available in packs of two, five or ten. See information and specifications page 48.

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 48. AT402 AT930 AT960-MR AT960-LR TDRA6000

opt. opt. opt. opt.

opt.



Tripleprism Reflector

AT402 opt.
AT930 opt.
AT960-MR opt.
AT960-LR opt.
TDRA6000
TM6100A

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 48.



AT402 opt.
AT930 opt.
AT960-MR opt.
AT960-LR opt.
TDRA6000 opt.
TM6100A

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 48.

Applied for: Robot and machine operations dynamic and static measurements



AT930 opt. AT960-MR opt. AT960-LR opt. TDRA6000 TM6100A 573 510 Cateye Reflector (CER)

Ball with Hardened Steel Surface ø 75 mm (2.9528"), ±0.05 mm. See information and specifications page 48.



AT402 opt.
AT930 opt.
AT960-MR opt.
AT960-LR opt.
TDRA6000 opt.
TM6100A

575 847 Surface Reflector Kit

including: Surface Reflector with lanyard, Pin Point Stylus, 3 mm Ruby Ball Stylus, Edge Stylus and Manual



	Quantity	Radius	Centring of Optics	Shape Ball	Acceptance angle	Weight
Red-Ring Reflectors 1.5" (RRR)						
575 784 Red-Ring Reflector 1.5"	1 pc.	19.05 mm ±0.0025 mm	< ±0.003 mm	±0.0015 mm	±30°, no limitation	170 g
576 241 Red-Ring Reflector 1.5"	2 pcs.	0.7500 in ±0.00010 in	< ±0.00012 in	< ±0.00006 in	due to ring	6.00 oz
576 242 Red-Ring Reflector 1.5"	5 pcs.					
576 243 Red-Ring Reflector 1.5"	10 pcs.					
Red-Ring Reflectors 7/8" (RRR)						
576 311 Red-Ring Reflector 7/8"	1 pc.	11.1125 mm ± 0.0025 mm (0.4375 in ± 0.0001 in)	< ± 0.003 mm < ±0.00012 in	± 0.0015 mm < ±0.00006 in	±30°, no limitation due to ring	35 g 1.23 oz
Red-Ring Reflectors 0.5" (RRR)						
575 739 Red-Ring Reflector 0.5"	1 pc.	6.35 mm ±0.0025 mm	< ±0.003 mm	±0.0015 mm	±30°, no limitation	6 g
576 238 Red-Ring Reflector 0.5"	2 pcs.	0.2500 in ±0.00010 in	< ±0.00012 in	< ±0.00006 in	due to ring	0.21 oz
576 239 Red-Ring Reflector 0.5"	5 pcs.					
576 240 Red-Ring Reflector 0.5"	10 pcs.					
Break Resistant Reflector 1.5" (BRR)						
576 244 Break Resistant Reflector 1.5"	1 pc.	19.05 mm ±0.0025 mm 0.7500 in ±0.00010 in	< ±0.010 mm < ±0.0004 in	±0.0015 mm < ±0.00006 in	≤ ±30°, no limitation due to collar	195 g 6.88 oz
Tooling Ball Reflectors 0.5" (TBR)						
576 234 Tooling Ball Reflector 0.5"	1 pc.	6.35 mm ±0.004 mm 0.2500 in ±0.00016 in	< ±0.01 mm < ±0.00039 in	±0.003 mm < ±0.00012 in	$\leq \pm 22^{\circ}$	7 g 0.25 oz
576 235 Tooling Ball Reflector 0.5"	5 pcs.	0.2500 III ±0.000 I 6 III	< ±0.00039 III	< ±0.000121f1	(without ring: ≤ ±50°)	0.2502
576 236 Tooling Ball Reflector 0.5"	10 pcs.					
Reflectors for Fixed Installation 0.5" (RFI)						
575 848 Reflectors for Fixed Installation 0.5"	1 pc.	6.35 mm 0.2500 in	not applicable	not applicable	±50°	3 g 0.11 oz
576 848 Reflectors for Fixed Installation 0.5"	5 pcs.					
576 246 Reflectors for Fixed Installation 0.5"	10 pcs.					
Cateye Reflector (CER)						
573 510 Cateye Reflector (CER)	1 pc.	37.5 mm ±0.05 mm 2.9528 in ±0.00197 in	±0.01 mm ±0.00039 in	±0.01 mm ±0.00039 in	±60°	730 g 25.75 oz

Tape Target Reflector

AT402 AT930 AT960-MR		763 532	GZM29, Reflective Tape, 20 x 20 mm for short range, pack of 20 pieces
AT960-LR TDRA6000 TM6100A	opt.	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
AT402		576 389	CRT26 Circular Retro Target Tape



AT930 AT960-MR AT960-LR TDRA6000 TM6100A opt. outside ø 26 mm, central aperture ø 5 mm, light orange, for medium range pack of 100 pieces



AT930 AT960-MR AT960-LR TDRA6000 opt. TM6100A 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)



AT402 AT930 AT960-MR AT960-LR TDRA6000

opt.

575 773 **RT3-90 Tape Target** with offset 30 mm +

with offset 30 mm ± 0.05 mm, magnetic fits to Target Base RB and RBC

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 Ø 45 mm, h=75 mm, 3 Magnetic Bases AT402 AT930 AT960-MF

TDRA6000

opt.

AT402 AT930

AT960-MR

TDRA6000

M6100A

opt.

AT402 AT930

AT960-LR TDRA6000

opt.

AT402 AT930 AT960-MR AT960-LR

TDRA6000 TM6100A opt.

AT402 AT930 AT960-MR AT960-LR TDRA6000 TM6100A

opt.

Special Reflectors and Holders (Leica TDRA6000 only)

AT402 AT930 AT960-MR AT960-LR TDRA6000 TM6100A opt. 575 940 Roller Alignment Target Fixture

comprising:

2 Floor Fixtures, 1 Roller Fixture, 2 RT3-90 Targets (575 773), 2 RT3-45 Targets (575 774), excluding CCR 1.5" Reflector and CCR 1.5" Supports



AT402 AT930 AT960-MR AT960-LR TDRA6000 opt. 574 999 Hidden Point Bar, 0.5 m

573 487

with Tape Targets



AT402 AT930 AT960-MR AT960-LR TDRA6000 TM6100A opt. Magnetic Support for Hidden Point Bar, 0.5 m



AT402 opt.
AT930
AT960-MR
AT960-LR
TDRA6000
TM6100A

opt.

641 662 GMP101 Mini Prism Set

incl. bubble, target plate and spike, in bag, also suitable for GLS11 and GRT44 (same height as GPH1, additive constant +17.5 mm)



AT402 opt.
AT930
AT960-MR
AT960-LR
TDRA6000 opt.
TM6100A

555 631 GPH1P Single Prism Precision Reflector



Targets for Multiple Theodolite Systems



black/white, ø 23 mm, 48 pieces on one sheet

TM6100A

opt.



800 742 Scale Bar 0,9 m

> carbon fibre, incl. Producer Inspection Certificate, in carrying case

AT960-MR TM6100A opt.

574 681 **Orientation Target**

magnetic

AT930 TM6100A opt.

575 854 Sphere Fit Tool

for Cateye Reflector

AT402 AT930 opt. AT960-MR opt. AT960-LR opt.

576 142 **Light Duty Magnetic Holder**

for Tooling Ball Reflectors 0.5"

AT402 opt. AT930 opt. AT960-MR opt. AT960-LR opt.

AT402	opt.
AT930	opt.
AT960-MR	opt.
AT960-LR	opt.
TDRA6000	opt.
TM6100A	

576 249 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 $250 \times 200 \times 70$ mm, weight with targets 1.1 kg.



AT402	opt.
AT930	opt.
AT960-MR	opt.
AT960-LR	opt.
TDRA6000	opt.
TM6100A	

576 850 Magnetic NORS Reflector Support

for 1,5" Reflectors RRR & BRR



AT402	opt.
AT930	opt.
AT960-MR	opt.
AT960-LR	opt.
TDRA6000	opt.
TM6100A	

576 851

Magnetic NORS Reflector Support Kit

for 1,5" Reflectors RRR & BRR (Kit of 5 units)

Compensation and Field Check Tools



Precision Ball Bar, Motorized

with counter weight, without reflector support. Compatible with Leica Absolute Tracker AT901. AT402 AT930 AT960-MR AT960-LR TDRA6000



575 090 Adapter to Ball Bar for Tripods with 5/8"Thread

allows to mount a Ball Bar and a Magnetic Reflector Holder on a tripod, (Ball Bar and Reflector Holder are not included). Compatible with Leica Absolute Tracker AT901. AT402 AT930 AT960-MR AT960-LR TDRA6000



575 836 IFM Distance Tool

to re-determine the birdbath distance for TBR and 1.5" CCR Reflectors, 12 mm bore holes for reflector supports (supports not included).
Compatible with Leica Absolute Tracker AT901.

AT402 AT930 AT960-MR AT960-LR TDRA6000



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

AT402 AT930 AT960-MR AT960-LR TDRA6000

opt.

opt.

opt.



AT28 Aluminium Tripod

with adjustable centre column. Robust, wellestablished 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)

AT402 AT930 AT960-M

TDRA6000 TM6100A



AT402	opt.
AT930	opt.
AT960-MR	opt.
AT960-LR	opt.
TDRA6000	opt.
TM6100A	

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)



AT402 opt.
AT930 opt.
AT960-MR opt.
AT960-LR opt.
TDRA6000 opt.
TM6100A

804 011 Magnetic Reflector Holder

for reflectors in spherical housings, \emptyset 1.5" with bolt hole for 575 497









803 728 Magnetic Reflector Holder

for reflectors in spherical housings, Ø 75 mm with bolt hole for 575 497 and 575 599.

- Tripod reflector holder for consistent reference point
- Drawn to scale
- Steel with black oxide finish

AT402 AT930 AT960-MR AT960-LR

TDRA6000

-LR

576 401 Mirror Tool

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 576 073 and 576 096). This tool can be used also to generate nominal distance values for the planned VDI/VDE standard

AT402 AT930 AT960-MR AT960-LR TDRA6000 opt. opt. opt. opt.

opt.

opt.

opt.

opt.

576 402 Reflector Mount

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

576 073 and 576 096 are recommended

AT402 AT930 AT960-MR AT960-LR

DRA6000 M6100A opt. opt. opt. opt.

	Offset	Shank	Body	Material
1.5" Reflector Holders				
577 011 Reflector Holder 1.5"	24 mm	ø6mm	ø 25.4 mm	stainless steel
577 002 Reflector Holder 1.5"	24 mm	ø8mm	ø 25.4 mm	stainless steel
577 003 Reflector Holder 1.5"	24 mm	ø 12 mm	ø 25.4 mm	stainless steel
577 101 Reflector Holder 1.5"	25 mm	ø6mm	ø 25.4 mm	stainless steel
577 102 Reflector Holder 1.5"	25 mm	ø8mm	ø 25.4 mm	stainless steel
577 103 Reflector Holder 1.5"	25 mm	ø 10 mm	ø 25.4 mm	stainless steel
577 104 Reflector Holder 1.5"	25 mm	ø 12 mm	ø 25.4 mm	stainless steel
577 120 Reflector Holder 1.5"	1.0000"	ø 0.2500"	ø 1.000"	stainless steel
577 125 Reflector Holder 1.5"	24 mm	shankless	ø 40.64 mm	stainless steel
577 126 Reflector Holder 1.5"	25 mm	shankless	ø 40.64 mm	stainless steel
577 127 Reflector Holder 1.5"	1.0000"	shankless	ø 1.6000"	stainless steel
577 128 Reflector Holder 1.5"	24 mm	shankless	ø 40.64 mm	stainless steel, magnetic base
577 129 Reflector Holder 1.5"	25 mm	shankless	ø 40.64 mm	stainless steel, magnetic base
577 130 Reflector Holder 1.5"	1.0000"	shankless	ø 1.6000"	stainless steel, magnetic base

			Offset	Shank	Body	Material
			011001	Cildina	Douy	matorial
SIA	577 135	Edge Reflector Holder 1.5"	24 mm			stainless steel
	577 136	Edge Reflector Holder 1.5"	25 mm			stainless steel
	577 137	Edge Reflector Holder 1.5"	1.0000"			stainless steel
	577 140	Drift Nest 1.5"	1.0000"			aluminum
0	576102	Foundation Reflector Holder 1.5"				
	576 134	Tripod Reflector Holder 1.5"				AT402 opt. AT930 opt. AT960-MR opt. AT960-LR opt. TDRA6000 opt. TM6100A

AT402 opt.
AT930 opt.
AT960-MR opt.
AT960-LR opt.
TDRA6000 opt.
TM6100A

576 104 Leica Lanyard Set 1 (full)

for safe handling of 1.5" reflectors



AT402 opt.
AT930 opt.
AT960-MR opt.
AT960-LR opt.
TDRA6000 opt.
TM6100A

576 105 Leica Lanyard Set 2 (partial)

for safe handling of 1.5" reflectors



		Offset	Shank	Body	Material
	0.5" Reflector Holders	000	- Citami	202,	
4	577 201 Reflector Holder 0.5"	10 mm	ø 5 mm	ø 12.7 mm	stainless steel
	577 202 Reflector Holder 0.5"	10 mm	ø 6 mm	ø 12.7 mm	stainless steel
	577 203 Reflector Holder 0.5"	10 mm	ø8mm	ø 12.7 mm	stainless steel
	577 204 Reflector Holder 0.5"	10 mm	ø 10 mm	ø 0.75"	stainless steel
	576 068 Reflector Holder 0.5"	10 mm	ø5mm		stainless steel
	576 073 Reflector Holder 0.5"	10 mm	ø 10 mm		stainless steel, magnetic base
310	577 205 Reflector Holder 0.5"	10 mm	ø 12 mm	ø 0.75"	stainless steel
	577 206 Reflector Holder 0.5"	12 mm	ø6mm	ø 12.7 mm	stainless steel
	577 207 Reflector Holder 0.5"	12 mm	ø8mm	ø 12.7 mm	stainless steel
	577 208 Reflector Holder 0.5"	12 mm	ø 12 mm	ø 0.75"	stainless steel
	577 209 Reflector Holder 0.5"	0.3125"	ø 0.2500"	ø 0.5000"	stainless steel
	577 210 Reflector Holder 0.5"	0.5000"	ø 0.2500"	ø 0.5000"	stainless steel
	577 220 Reflector Holder 0.5"	10 mm	shankless	ø 12.7 mm	stainless steel, magnetic base
O	577 221 Reflector Holder 0.5"	12 mm	shankless	ø 12.7 mm	stainless steel, magnetic base
	577 222 Reflector Holder 0.5"	0.5000"	shankless	ø 0.5000"	stainless steel, magnetic base

AT402	opt.
AT930	opt.
AT960-MR	opt.
AT960-LR	opt.
TDRA6000	opt.
TM6100A	

AT402 opt.
AT930 opt.
AT960-MR opt.
AT960-LR opt.
TDRA6000 opt.
TM6100A

577 230 **Reflector Holder 0.5" Drift Nest**

Offset 0.5000", stainless steel



AT402 opt.
AT930 opt.
AT960-MR opt.
AT960-LR opt.
TDRA6000 opt.
TM6100A

577 235 Reflector Holder 0.5" Target Corner

Offset 0.5000", stainless steel





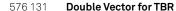
AT402 opt.
AT930 opt.
AT960-MR opt.
AT960-LR opt.
TDRA6000 opt.
TM6100A

577 240 Magnetic Holder with Zero Thickness for 0.5" reflectors

Steel black oxide finish







- Holds 2 0.5" reflectors on centreline and critical offsets to represent the centreline and direction of a hole
- Drawn to scale
- Centring and height tolerance within 0.0127 mm (0.0005")
- Steel with black oxide finish

AT402 AT930 AT960-MR AT960-LR



576 052 Heavy Duty Magnetic Holder for TBR

for tooling ball reflectors 0.5"

AT402 AT930 AT960-MR AT960-LR

opt. opt. opt. opt.

opt.

opt.

opt.

opt.

Miscellaneous



Heavy Duty Magnetic Reflector Holder Adaptor

for supports with shank ø 12 mm

AT402 AT930 AT960-MR AT960-LR TDRA6000 opt. opt. opt. opt. opt.





576 122 **Foundation Target Insert**

- Mounts to concrete floor foundations for permanent targeting reference
- Drawn to scale

AT402 AT930 AT960-MR AT960-LR **TDRA6000** opt. opt. opt. opt. opt. AT402 AT930 AT960-MR AT960-LR TDRA6000 TM6100A opt. 577 255 **1.5" Laser Station Sphere**

A 1.5" Sphere for 3D manual sighting applications



AT402 opt.
AT930 opt.
AT960-MR opt.
AT960-LR opt.
TDRA6000
TM6100A

577 259 **1.5" to 0.5" Adapter**

To be able to use a 0.5" refector in a 1.5" nest





577 250 Leica Geosystems Laser Tracker – Imperial Reflector Holder Kit

Consisting of:

- 3 x 577 230 Reflector Holder 0.5" Drift Nest, offset 0.5000", stainless steel
- 1 x 577 235 Reflector Holder 0.5" Target Corner, offset 0.5000", stainless steel
- 1 x 577 210 Reflector Holder 0.5", offset 0.5000", shank ø 0.2500", body ø 0.5000", stainless steel
- 1 x 576 131 Double Vector for TBR, shank
 Ø 0.2500", steel black oxide finish
- 1 x 577 120 Reflector Holder 1.5", offset 1.0000", shank ø 0.2500", Body ø 1.000", stainless steel
- 1 x 577 127 Reflector Holder 1.5", offset
 1.0000", shankless, body ø 1.6000", stainless steel
- 1 x 577 137 Edge Reflector Holder 1.5", offset 1.0000", stainless steel
- 2 x 576 134 Tripod Reflector Holder 1.5"
- 6 x 577 140 Drift Nest 1.5", offset 1.0000", aluminum

AT402
AT930
AT960-MR
AT960-LR
TDRA6000

opt. opt. opt. opt. opt.

AT402	opt.
AT930	opt.
AT960-MR	opt.
AT960-LR	opt.
TDRA6000	opt.
TM6100A	

577 251

Leica Geosystems Laser Tracker – Metric Reflector Holder Kit

Consisting of:

- 3 x 577 221 Reflector Holder 0.5", offset 12 mm, body ø 12.7 mm, shankless, magnetic base, stainless steel
- 1 x 577 202 Reflector Holder 0.5", offset 10 mm, shank ø 6 mm, body ø 12.7 mm, stainless steel
- 1 x 577 203 Reflector Holder 0.5", offset 10 mm, shank ø 8 mm, body ø 12.7 mm, stainless steel
- 1 x 577 205 Reflector Holder 0.5", offset 10 mm, shank ø 12 mm, body ø 12.7 mm, stainless steel
- 1 x 577 206 Reflector Holder 0.5", offset 12 mm, shank ø 6 mm, body ø 12.7mm, stainless steel
- 1 x 577 207 Reflector Holder 0.5", offset 12 mm, shank ø 8 mm, body ø 12.7 mm, stainless steel
- 1 x 577 208 Reflector Holder 0.5", offset 12 mm, shank ø 12 mm, body ø 12.7 mm, stainless steel
- 1 x 577 101 Reflector Holder 1.5", offset 25 mm, shank ø 6 mm, body ø 25.4 mm, stainless steel
- 1 x 577 102 Reflector Holder 1.5", offset 25 mm, shank ø 8 mm, body ø 25.4 mm, stainless steel
- 1 x 577 104 Reflector Holder 1.5", offset 25 mm, shank ø 12 mm, body ø 25.4 mm, stainless steel
- 1 x 577 126 Reflector Holder 1.5", offset 25 mm, shankless, body ø 40.6 mm, stainless steel
- 1 x 577 136 Edge Reflector Holder 1.5", offset 25 mm, stainless steel
- 2 x 576 134 Tripod Reflector Holder 1.5"
- 6 x 577 140 Drift Nest 1.5", offset 1.0000", aluminum



Leica TM6100A Industrial Theodolite



Leica TM6100A Motorized Industrial Theodolite

with pan focal telescope and build-in autocollimation eyepiece. Including user manual, upright container and Calibration Certificate Metrology (angle).

Leica TDRA6000 Laser Station

576 373 Leica TDRA6000 Motorized Industrial Laser 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 Hz and V settings, friction coupling, optical sight in both faces. Including user manual, upright container and Calibration Certificate Metrology, angle and distances with both reflector and reflectorless EDM. (1.5"RRR, Retro-Reflective Tape).



Additional Options



576 528 GTS39 Optional 2nd Keyboard

with touch screen and color display, for Leica TM6100A instruments, for telescope position 2 (576528: Factory fitted

576529: Retro-fitted by Service Center)

AT402 AT930 AT960-MR AT960-LR TDRA6000 TM6100A opt.



799 658 SPF03 Screen Protection

Reserve or replacement touch screen protection foil for TPS6000 instruments against scratches and dirt.

AT402 AT930 AT960-MR AT960-LR TDRA6000 opt. TM6100A opt.



6003 628 TDRA6000 Accessory Set

Consisting of: GDF321-I, Industrial Tribrach w/o opt. Plummet, 2 GEB242 Li-Ion Batteries, GKL341 Charger, MCF256 Compact Flash Card, GEV269 Data Transfer Cable Lemo1 / USB

AT402 AT930 AT960-MR AT960-LR TDRA6000 opt. TM6100A opt.

Power Supply

AT402 opt.
AT930
AT960-MR
AT960-LR
TDRA6000 opt.
TM6100A opt.

793 975 **GEB242 Battery**

Internal battery, Li-Ion 14.8V, 5.8 Ah



AT402 AT930 AT960-MR AT960-LR TDRA6000 opt. TM6100A opt. 727 367 **GEB171 External Battery**

12V, 9 Ah, Ni-MH, rechargeable



AT402 AT930 AT960-MR AT960-LR TDRA6000 opt. TM6100A opt. 807 696 **GEV270 Power Supply Unit for TPS5000/6000**

for TPS/GPS, for indoor use only.
Input 100-240VAC to output 13.8VDC,
with connection for Power Cables



AT402 AT930 AT960-MR AT960-LR TDRA6000 opt. TM6100A opt. 575 427 T LINK Interface

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

799 187 GKL341 multiple-bay charger Professional 5000

> Multi-bay charger for up to 4x Li-lon batteries GB241/GEB242. The refresh functionality allows to re-align the battery capacity displayed after extensive usage. AC Adapter included.

AT402 opt. **TDRA6000** opt. TM6100A opt.

Data Storage and Data Transfer

733 257 MCF256 Compact Flash Card

256MB

745 995 MCF1000 Compact Flash Card

1GB

AT960-MR AT960-LR **TDRA6000**

opt. TM6100A opt.

733 258 MCFAD1 Compact Flash PC Card Adapter

TDRA6000 TM6100A

opt. opt.

776 240 MCR8 CF/SD/SRAM Card Reader

USB card reader for SD/CF and SRAM cards

AT402

TDRA6000

opt. TM6100A opt.

Power Cables

AT402 AT930 AT960-MR AT960-LR TDRA6000 opt. TM6100A opt.

576 521 **GEV286-I, Power Cable, 20m**

Connects TPS6000 instrument with external power supply T_Link/GEV270 or battery GEB171



AT402 AT930 AT960-MR AT960-LR TDRA6000 opt. TM6100A opt. 758 469 **GEV219 Power Cable, 1.8m**

Connects external battery GEB171 to TM30/TS30 or Leica TDRA6000 instrument



AT402 AT930 AT960-MR AT960-LR TDRA6000 opt. TM6100A opt. 759 257 **GEV220 Y-Cable, 2.0m**

Connects TM30/TS30 or Leica TDRA6000 to PC (9-pin RS232 serial) and external battery



AT402 AT930 AT960-MR AT960-LR TDRA6000 opt. TM6100A opt. 800 497 Cable Spool

for 20 m/40 m cables (without cable)



Data Transfer Cables and Converter









733 282 GEV162 Data Transfer Cable, 2.8 m

Connects GPS1200+ receiver RX controller port

or Leica TM30/TS30 or Leica TDRA6000 to PC for data transfer, firmware upload etc. lemo to 9 pin RS232 serial connector

806 095 GEV269, 2m Data Transfer Cable

Converter cable USB to serial (Lemo to USB A connector), connects instrument to PC, PC

driver included on CD

758 513 Adapter Cable Leica TPS6000

(Lemo 0 - Lemo 1), Used to convert Leica TPS5000 cables. Used to work with TPS6000 sensors on existing Leica TPS5000 cables

576 388 RS232 Serial - USB Adapter

> Used to convert 9-pin RS232 connectors into USB connections

GK1 Lemo Canon Converter 707 525 30°, for PC

TDRA6000 TM6100A

opt. opt.

TDRA6000

TM6100A

TDRA6000

TM6100A

TDRA6000 TM6100A

opt. opt.

opt.

opt.

opt.

opt.

opt.

opt.

AT960-MR

AT960-LR **TDRA6000**

TM6100A

Tripods

opt.
opt.
opt.

296 632 **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)



AT402	opt.
AT930	
AT960-MR	
AT960-LR	
TDRA6000	opt.
TM6100A	opt.

332 200 GST4 Tripod Base

for setting up GST Tripods on smooth surfaces



AT402	opt.
AT930	
AT960-MR	
AT960-LR	
TDRA6000	opt.
TM6100A	opt.

575 483 AT21 Aluminum 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)



AT402	opt.
AT930	
AT960-MR	
AT960-LR	
TDRA6000	opt.
TM6100A	opt.

575 484 AT28 Aluminum 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.

equipment.
Instrument height: from 1.4 - 2.8 m (4.6 - 9.2 ft)
Weight: 12 kg (26.4 lb)













GMT5 Measuring Slide 417 677

(Single direction) with maximum working range 40 mm; least count 0.01 mm

AT402	opt.
AT930	
AT960-MR	
AT960-LR	
TDRA6000	opt.
TM6100A	opt.

GAD12 Adapter Set 417 678

for mounting GMT5 translation stage onto any Leica Geosystems tribrach; includes tribrach to mount instrument; typical adapter set for Theodolites and Laser Stations

AT402	opt.
AT930	
AT960-MR	
AT960-LR	
TDRA6000	opt.
TM6100A	opt.

417 679 **GAD13 Adapter Set**

for mounting GMT5 translation stage onto 5/8" thread; includes adapter plate with 5/8" thread to mount instruments; typical adapter set for levels

AT402	opt.
AT930	
AT960-MR	
AT960-LR	
TDRA6000	opt.
TM6100A	opt.

Tribrachs

AT402	opt.
AT930	
AT960-MR	
AT960-LR	
TDRA6000	opt.
TM6100A	opt.

576 352 **GDF 321-I, Tribrach Pro**

without optical plummet, light grey



opt.
opt.

576 353 GDF322-I Industrial Tribrach

with optical, plummet, light grey



AT402	opt.
AT930	
AT960-MR	
AT960-LR	
TDRA6000	opt.
TM6100A	opt.

577 261 **3½"x 8" to 5/8"x 11" Adapter**

to mount a TPS or Leica AT402 sensor on a heavy duty "Brunson" type stand



Eyepieces, Filters, DL2 Lasers and Autocollimation Accessories



308 838 FOK53 Eyepiece

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

TDRA6000 TM6100A

opt. opt.



743 504 **GVO13 Objective Sun-Filter**

TDRA6000 TM6100A

opt. opt.

opt.



GFZ3 Diagonal Eyepiece 793 979

for telescope, except T100

TDRA6000



376 236 **GOK6** Eyepiece

for steep sights, with joint allowing variable sighting angle

AT960-MR AT960-LR

TDRA6000 TM6100A

opt. opt.



712 504 Counterweight for Leica TM5100A/TM6100A

if steep angle GOK6 Eyepiece is attached

TM6100A

opt.

AT402 AT930 AT960-MR AT960-LR TDRA6000 TM6100A

opt.

opt.

433 472 **GUS29**

GUS29 Internal Target for collimation measurements

(Factory fit to Leica TM5100A / Leica TM6100A)



Autocollimation Accessories

AT402 AT930 AT960-MR AT960-LR TDRA6000 199 899

GOA2 Autocollimation Eyepiece

(Leica TDRA6000 only)



AT402 AT930 AT960-MR AT960-LR TDRA6000 opt. TM6100A 394 787

GEB62 Plug-In Lamp

with cable to battery (Leica TDRA6000 only)



AT402 AT930 AT960-MR AT960-LR TDRA6000 TM6100A opt.

394 792

GEB63 Battery Box

for autocollimation eyepiece and eyepiece lamp. Does not include 9V battery (Leica TDRA6000 only)





575 725 **AL51 Plug in Lamp**

Leica TM5100A/TM6100A

AT402 AT930 AT960-M

TM6100A

opt.



392 368 GAS1 Autocollimation Mirror

ø 50 mm, in case

AT402 AT930 AT960-MR AT960-LR

TDRA6000

TM6100A

opt.



574 822 **DL2 Diode Laser Eyepiece**

with user manual, in case

AT402 AT930

AT960-MR AT960-LR

TM6100A

opt.



723 231 Counterweight for Leica TM6100A

if Diode Laser DL2/3 is attached

AT402 AT930

AT960-MR AT960-LR

TM6100A

opt.



574 835 Intensity Regulator for DL/3

AT930

AT930 AT960-MR

T960-LR

TM6100A

opt.

AT402 AT930 AT960-MR AT960-LR TDRA6000 opt. TM6100A opt.

575 498 Tripod Bracket

In order to attach accessories (Battery, DL2 Intensity Regulator, Radio Modem) to AT21/28 Tripods



Cables

AT402 AT930 AT960-MR AT960-LR TDRA6000 TM6100A opt. 574 834 Cable 1 m

connects DL2 and Intensity Regulator



AT402 AT930 AT960-MR AT960-LR TDRA6000 TM6100A opt. 409 678 GEV52 Data Cable 1.8 m

connects instrument or intensity regulator DL2 with External Power Supply T_LINK/GEV208 or Battery GEB70/171



AT402 AT930 AT960-MR AT960-LR TDRA6000 TM6100A opt. 527 497 **GEV86 Data Cable 20 m**

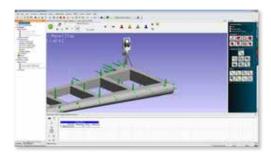
connects DL2/3 intensity regulator with external power supply T_LINK/GEV208 or Battery GEB171



AT402 AT930 AT960-MR AT960-LR TDRA6000 TM6100A opt. 576 387 **GEV64-I Power Cable 1.2 m**

connects instrument 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
- Interfaces to all Hexagon Metrology portable CMMs
- All common CAD exchange and native formats
- 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.

576 728 Spatial Analyzer Professional

576 729 Spatial Analyzer Ultimate

AT402 opt.
AT930 opt.
AT960-MR opt.
AT960-LR opt.
TDRA6000 opt.
TM6100A opt.

For more details see

PC-DMIS Portable for Laser Trackers

Bringing Metrology to the Shop Floor

PC-DMIS Portable for Laser Trackers is part of the PC-DMIS suite – the leader in global 3D inspection SW with more than 20'000 licenses sold. PC-DMIS allows you to use one software suite for all Hexagon Measurement devices. This provides you with the same look and feel across all your inspection tasks, hence decreasing training cost and make use of your inspection specialists in a much more flexible way.



AT402 opt.
AT930 opt.
AT960-MR opt.
AT960-LR opt.
TDRA6000 opt.
TM6100A

576 700 **PC-DMIS Pro**

is a fully featured metrology software and the perfect choice for non-CAD applications.

AT402 opt.
AT930 opt.
AT960-MR opt.
AT960-LR opt.
TDRA6000 opt.
TM6100A

576 702 **PC-DMIS CAD++**

extends the range of applications to any CAD related measurement task and provides special tool kits for sheet metal inspection, scanning or point cloud management.

For more details see



DCP Solutions

for Leica TDRA6000 and Leica Absolute Tracker AT401/402

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 jobpreparation tool for all DCP05 and DCP Pocket measurements incl. MS Excel® based reporting.

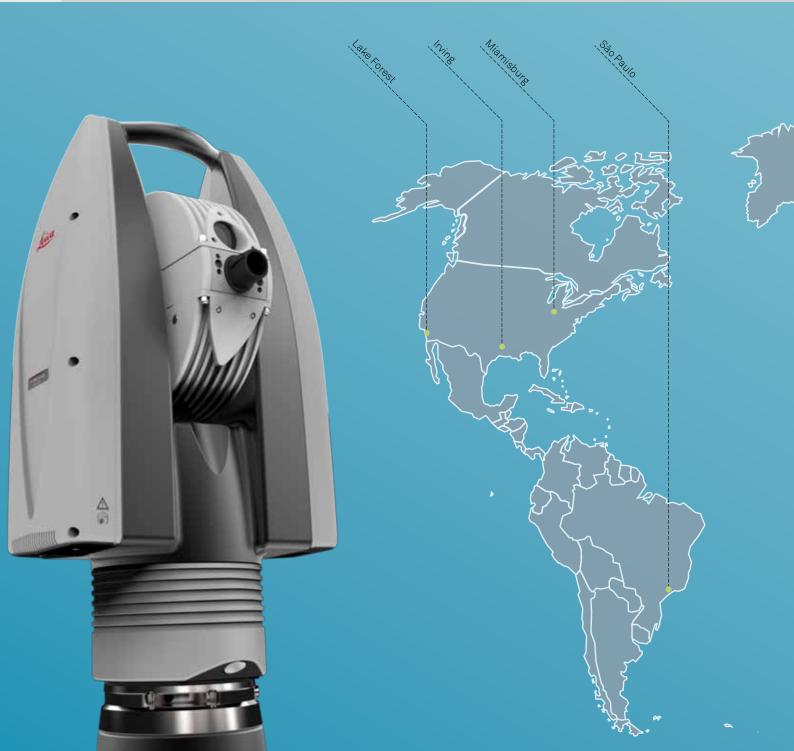
AT402	opt.
AT930	
AT960-MR	
AT960-LR	
TDRA6000	opt.
TM6100A	

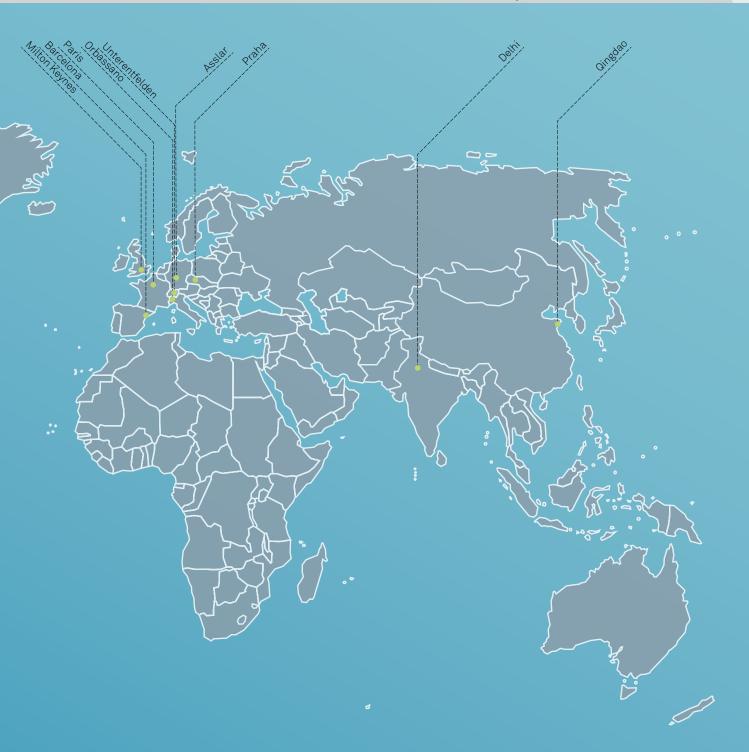
576 424 **DCP Pocket**

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

For more details see







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