



Kawan Lama
#1 Commercial & Industrial Supply Company

ROMER

ABSOLUTE ARM

Portable Measuring Arms

Quality control, inspection, on-machine verification, reverse engineering or 3D modeling wherever they are needed are no problem for the ROMER Absolute Arm. It is much more than just a metrology tool, its value lies in its versatility. Portability, stability, light weight and high-performance laser scanners make the ROMER Absolute Arm an all-purpose 3D measurement, analysis and digitizing tool that can be used by anyone, and with minimum training.

Unlike many metrology devices, the ROMER Absolute Arm does not require warm-up time or initialization, thanks to a stable carbon fiber structure and industry leading Absolute encoders. Simply take the measuring arm to the part, switch it on and start measuring.

ROMER ABSOLUTE ARM TOP FEATURES

Certification

All ROMER Absolute Arms including scanning systems pass through B89.4.22 certification. Additional certifications according to VDI/VDE 2617-9 or ISO 10360 are available.

Absolute Encoders

Referencing and warm-up time was for yesterday

- just switch the arm on and measure.

Automated Probe Recognition

Intelligent Quick Change Probes: Swap touch-probes at any time without the need to recalibrate. The Romer Absolute Arm's repeatable mount allows to change probes on the fly, according to your measurement needs

Measurement Volume

Size does matter. The ROMER Absolute Arm is available in seven lengths between 1.5 m and 4.5 m.

ROMER ABSOLUTE ARM LASER SCANNERS

Model	Integrated scanner RS2	External scanner CMS108
Max. point acquisition rate	50'000 Points/s	30'000 Points/s
Points per Line	1000	max. 2000
Line rate	50 Hz	50 Hz
Line width range	min. 46 mm mid. 65 mm max. 85 mm	104 mm / 51 mm / 20 mm 130 mm / 63 mm / 25 mm 130 mm / 63 mm / 25 mm
Stand off (mid range)	150 mm ± 50 mm	180 mm ± 40 mm
Minimum point spacing (mid range)	0.046 mm	0.025 mm
Laser power control	Fully automatic – per line	Fully automatic – per point.
Accuracy (2 sigma)	30 µm	20 µm
Weight	340 g	398 g
Controller	No	Yes
Laser safety	Class 2M	Class 2
Working temperature	5°C – 40°C (41°F – 104°F)	10°C – 42°C (50°F – 108°F)

Scanning sensor specification



LEICA

ABSOLUTE TRACKER AT402 Absolutely Portable

The Leica Absolute Tracker AT402 is a portable coordinate measuring machine that allows extreme accuracy over ultra large distances. It is able to be powered by its own internal battery and is able to work in the most demanding environment, yet maintains the highest level of accuracy and the largest ever work envelope.

The Leica Absolute Tracker AT402 has a unique "All-in-One" system design that incorporates such needed accessories as built in live video, level to gravity, environmental monitoring and even an integrated IR remote control. By utilizing the integrated Wireless LAN communication the sensor can be used completely wirelessly making this the most portable Absolute Tracker ever.

TOP FEATURES



A NEW LEVEL OF PORTABILITY & DURABILITY

The complete measurement system weighs less than 15 kg including the case and in minimum configuration.



POWERLOCK – THE BEAM CATCHES THE REFLECTOR AUTOMATICALLY

Leica Geosystems introduced the world to PowerLock in 2009. This vision technology detects a reflector and automatically locks the laser beam onto it, even when the target is moving. The laser beam automatically moves to the reflector! Laser Trackers without PowerLock require a high amount of skill and experience to learn how to efficiently use the sensor without breaking the beam. PowerLock changes this completely and makes the handling of a laser tracker much easier.



READY FOR ANY ENVIRONMENT

Utilizing a completely sealed design that is independently IP54 (IEC 60529) certified means this sensor can be installed in the most unforgiving environments. Spraying coolant, dust, weld splash, nothing is too harsh for this sensor.



A WIRELESS ALL-IN-ONE LASER TRACKER

With the built in WIFI connection, the Leica Absolute Tracker AT402 becomes a completely wireless portable CMM free from any external data or power cable requirements.



BATTERY POWERED, CABLE – FREE OPERATION

With two identical batteries – one in the sensor, one in the controller – the Leica Absolute Tracker AT402 can run for a work day. When power approaches a critical level, the batteries can be either replaced or hot swapped.



ULTRA LARGE VOLUME MEASUREMENTS

With endless telescope rotation the sensor can measure a full 360° horizon and a 290° vertical dome. Pair this with a typical measurement volume of 320 meters (Ø) and you have the world's largest volume precision CMM.



COMPLETE SYSTEM INTEGRATION

The Leica Absolute Tracker AT402 is ready for any measurement task that comes its way. All accessories such as remote control, environmental monitor or level sensor are already built in.



PROBING SYSTEM



Authorized Distributor :



Kawan Lama®

#1 Commercial & Industrial Supply Company

kawan lama sejahtera, pt.
 kawanlamapt

www.kawanlama.com
 www.kawanlamaonline.com

JAKARTA (Head Office)

Tel. : (021) 582-8282
BALI
Tel. : (0361) 900-5859
BALIKPAPAN
Tel. : (0542) 761-698
BANDUNG
Tel. : (022) 421-3939
BATAM
Tel. : (0778) 473-566

BONTANG

Tel. : (0548) 510-2198
CIKARANG
Tel. : (021) 8984-5858
CILEGON
Tel. : (0254) 587-987
MALANG
Tel. : (0341) 321-328
MEDAN
Tel. : (061) 452-7269

PALEMBANG

Tel. : (0711) 351-198
PEKANBARU
Tel. : (0761) 857-766
SAMARINDA
Tel. : (0541) 754-949
SEMARANG
Tel. : (024) 355-8788
SOLD
Tel. : (0271) 636-738

SURABAYA (Luanda)

Tel. : (031) 868-8328
TANJUNG MORAWA
Tel. : (061) 794-1328
TUBAN
Tel. : (0556) 528-001
YOGYAKARTA
Tel. : (0274) 642-9098