# **Leica iCON robot 50**Robotic total station for

one-person operation



## With Leica iCON robot 50 you don't need an operator at the instrument.

The robotic total station can be operated from the field controller at the prism pole, at the point you need positioning.

- Most accurate reflectorless measurements in its class
- One-button keyboard for simple operation
- Unique PowerSearch option for fast prism acquisition
- Communication options for different needs
- Ready to use in 3D machine control
- Easy hand-over control from rover to machine control and vice versa
- Wide range of applications through the custom-built iCONstruct software

Optional handles with WLAN or long range Bluetooth®

Accurate automatic target recognition

Reflectorless measurement to 250 m

Unique Leica PowerSearch function. Rapid automatic finding of prism over 300 m

Electronic Guide Light (EGL) assists operator with prism targeting

One-button keyboard for easy operation on site

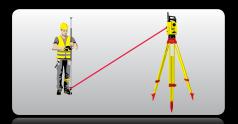




### Leica iCON robot 50

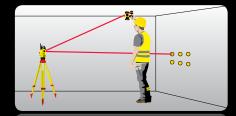
Stake-out, Machine Control, Grade Check ... You can do it all!





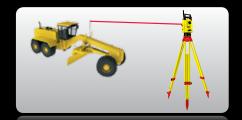
#### One man robotic

Increase your productivity by working in oneperson mode. With industry leading tracking performance and the patented PowerSearch technology, Leica iCON robot 50 allows you to finish jobs faster maintaining highest accuracy.



#### Interior overhead with laser pointer

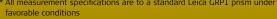
Using one of the world's most accurate laser pointers, remotely layout points on walls for drill patterns or on ceilings for air conditioning or other such projects.



#### Machine control

Work to the tightest tolerances under any site conditions. With Leica iCON robot 50 you can carry out fine grading and paving with highest precision speeding up your work with construction machinery.

Distance Measuring Accuracy (ISO17123-4)	Standard 1 mm + 1.5 ppm Tracking 3 mm + 1.5 ppm	Maximum Lock Speed	5 m/s or 18 km/h at 20 m / 25 m/s or 90 km/h at 100 m
Angular Accuracy (ISO17123-4)	2" (0.6 mgon) and 5" (1.5 mgon) sensors available	Weight	4.8 kg
Level Compensation	Centralized dual axis compensation "Level and Go Functionality"	Communication	Bluetooth® / RS232, Optional WLAN or long range Bluetooth®
Range to Single Prism*	3500 m	Environmental Specifications	IP54
Range of ATR Mode*	1000 m	Working Temperature	-20° C to +50° C
Reflectorless Range	250 m	Storage Temperature	-40° C to +70° C
Measurement Frequency	Max. 12 Hz Synchronized (0.08 s)	Data Storage	Compact Flash CFII cards
Prism Search Functionality	Power Search / ATR / EGL	Laser Plummet	1 mm at 1.5 m
Maximum Rotation Speed	45° per second		





Leica iCON robot 50 is a versatile instrument that has your entire site covered. Data capture, control measurements, stake-out, machine control and as-built site verification can be completed quickly and easily.

Packed with exciting new features, built for speed, accuracy, ease-of-use and reliability, Leica iCON robot 50 is built to impress all. It will provide you with the perfect tool for all your construction measuring and positioning needs on site.

Reflectorless (RL): Laser class 3R in accordance with ICE 60825-1 resp. EN 60825-1 Laser plummet: Laser class 2 in accordance with IEC 60825-1 resp. EN 60825-1 Distance meter (IR), ATR and PowerSearch, Guide light (EGL): Laser class 1 in accordance with IEC 60825-1 resp. EN 60825-1



Leica MPR122, 360° prism Highly accurate target, suitable for machine control.



Leica iCON CC60/61 Rugged, mobile tablet PC with enhanced connectivity and functionality.



Leica iCON CC50 Lightweight, handy PDA for easy and efficient field work.



Leica iCON gps 60 Versatile SmartAntenna for multi-purpose positioning tasks.



Leica Builder Intuitive, powerful and scalable manual total station series for routine construction tasks on site.





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