

Accuracy at the next level.

Robotic total stations POS 180 / POS 150

Applications

- 3D layout: Outdoors on the ground or on facades, indoors on floors, ceilings or walls
- Measurements for drawing up building plans
- Checking positions on plans

Advantages

- **Efficient:** Prism tracking – all measuring can be done by one person
- **Simple:** Intuitive operation and automatic target acquisition
- **Accurate:** Distance measurement with high accuracy, data saved at the touch of a button
- **Fast:** Considerable time and personnel savings vs. traditional methods for all jobsite layout needs
- **Digital controller:** Putting the plans in the palm of your hands
- **BIM compatible:** Building plans with BIM object descriptions on the screen at the touch of a button

Performance data POS 180 / POS 150

Display Tool	Monochrome, 96 x 49 pixels
Display Controller	TFT Color (touch screen) 640 x 480 p
Angle accuracy	3" (POS 180) / 5" (POS 150)
Distance measurement	Prism + Reflectorless
Range	Up to 9,843 ft (3000 m) with prism; Up to 1640 ft (500 m) reflectorless
Target tracking range	984 - 2625 ft (300 - 800 m)
Horizontal drive / focus	Servo driven
Laser Class EDM	Class II (CFR 21) / Class 3R (IEC 60825)
Power source	1 x Li-ion, 11.1V 5Ah



Order Information

Description	Package Contents	Item No.
POS 150 BC RTS Combo	Includes: POS 150, (2) Batteries POA 84, POC 100 BC, Case POA 100, Charger POA 81, Charger POA 87, Reflector rod POA 54, Reflector rod POA 52, Frame clamp POA 76, Bag POA 62, Prism POA 20, Tripod PUA 36, Bipod POA 75, PROFIS Layout and 1 day of measuring training. Point Creator sold separately.	3511647
POS 180 BC RTS Combo	Includes: POS 180, (2) Batteries POA 84, POC 100 BC, Case POA 100, Charger POA 81, Charger POA 87, Reflector rod POA 54, Reflector rod POA 52, Frame clamp POA 76, Bag POA 62, Prism POA 20, Tripod PUA 36, Bipod POA 75, PROFIS Layout and 1 day of Measuring Training. Point Creator sold separately.	3511648
POS 150 ME RTS Combo	Includes: POS 150, (2) Batteries POA 84, POC 100 ME, Case POA 100, Charger POA 81, Charger POA 87, Reflector rod POA 54, Reflector rod POA 52, Frame clamp POA 76, Bag POA 62, Prism POA 20, Tripod PUA 36, Bipod POA 75, Wall mount POA 74, Wall mount ratchet POAW 54, Tripod star PUA 41, PROFIS Layout and 1 day of measuring training. Point Creator sold separately.	3511649
POS 180 ME RTS Combo	Includes: POS 180, (2) Batteries POA 84, POC 100 ME, Case POA 100, Charger POA 81, Charger POA 87, Reflector rod POA 54, Reflector rod POA 52, Frame clamp POA 76, Bag POA 62, Prism POA 20, Tripod PUA 36, Bipod POA 75, Wall mount POA 74, Wall mount ratchet POAW 54, Tripod star PUA 41, PROFIS Layout and 1 day of measuring training. Point Creator sold separately.	3511651
POS 18 + PUA 35 + PROFIS Combo	Includes Total station POS 18, Reflector rod POA 51, (2) Batteries POA 80, AC adapter POA 81, POA 82 battery charger, adjustment wrench laser warning plate, Tripod PUA 35 and PROFIS Layout desktop software	3489164
POS 15 + PUA 35 + PROFIS Combo	Includes Total station POS 15, Reflector rod POA 51, (2) Batteries POA 80, AC adapter POA 81, Battery charger POA 82, adjustment wrench laser warning plate, Tripod PUA 35 and PROFIS Layout desktop software	3489166

Description	POS 15/18	POS 150/180	POC 100	Item No.
PC Software Profis Layout	■	■		2005070
Point Creator for AutoCAD		■		2068307
Point Creator for REVIT		■		2068308
AC adapter POA 81	■		■	435297
Battery cable 12V POA 88		■		2042318
Battery charger set POA 87 (includes POA 85 power supply)		■		2042317
Battery POA 80	■		■	435296
Battery charger POA 82	■		■	435298
Battery POA 84		■		2042314
Bipod POA 75		■		2077857
Centre punch POAW 46	■	■		2042329
Point Transfer System (Layout Stand)		■		3512922
Prism POA 20		■		2042043
Prism POA 22	■	■		2042045
Prism POA 23		■		2042046
Prism POA 24		■		2042047
Reflector rod POA 52		■		2042048
Reflector rod POA 54		■		2042300
Stylus pen POW 91			■	2042338
Tripod PUA 35	■			428683
Tripod PUA 36		■		2048717
Wall mount POA 74		■		2044040
Wall mount ratchet POAW 54			■	2042309

Hilti. Outperform. Outlast.

P.O. Box 21148, Tulsa, OK 74121 | Hilti, Inc. (U.S.) 1-800-879-8000 | www.us.hilti.com | en español 1-800-879-5000 | Hilti (Canada) Corporation | 1-800-363-4458 | www.hilti.ca

Hilti is an equal opportunity employer | Hilti is a registered trademark of Hilti, Corp. ©Copyright 2014 by Hilti, Inc. • 8/14 • CK

The data contained in this literature was current as of the date of publication. Updates and changes may be made based on later testing. If verification is needed that the data is still current, please contact the Hilti Technical Support Specialists at 1-800-879-8000. All published load values contained in this literature represent the results of testing by Hilti or test organizations. Local base materials were used. Because of variations in materials, on-site testing is necessary to determine performance at any specific site. **Printed in the United States**

Certified Quality and Environmental Systems
ISO 9001 / ISO 14001
Reg. No. 12455-02
*ISO 14001 US Only



Robotic total stations POS 180 / POS 150
Mechanical total stations POS 18 / POS 15

INNOVATIVE SOLUTIONS FOR MEASURING AND JOBSITE LAYOUTS.

Hilti. Outperform. Outlast.

Right on point.

Mechanical total stations POS 18 / POS 15

Applications

- Laying out positions and checking heights for excavations, formwork and fastening points on floors, walls and ceilings
- Transferring control lines and points vertically over several floor levels
- As-built measurement of points, direct area measurement and planning

Advantages

- **Accurate:** Measures distances to surfaces without need for reflectors
- **Practical:** Guide light for the rod operator for easy self-alignment during layout work
- **Simple user interface:** Clearly legible screen, easy-to-follow graphics, intuitive guidance through measuring tasks, touch screen with large symbols
- **Plans stored in the tool:** Unique, direct on-screen selection of layout points

Performance data POS 19 / POS 15

Display	Color touch screen, 320 x 240 pixels
Angle accuracy	3" (POS 18) / 5" (POS 15)
Distance measurement	Reflectorless
Range	up to 1115 ft (340m)
Target tracking range	n/a
Horizontal drive / focus	Mechanical
Laser Class EDM	Class II (CFR 21) / Class 3R (IEC 60825)
Power source	2 x Li-ion, 3.8 V 5.2 Ah



Robotic total stations POS 180 / POS 150
Mechanical total stations POS 18 / POS 15

STRAIGHT TO THE POINT.

Hilti has done it again. Using the latest in robotic technology, the new Hilti Robotic total stations are making their mark on a construction site near you. With digital plans stored in memory, the compact controller is in permanent wireless contact with the total station and provides direct access to functions that make everyday layout and measuring tasks easier than ever. But best of all, these jobs can now be completed quickly and efficiently by just one person.



Robotic total stations POS 180 / POS 150
Mechanical total stations POS 18 / POS 15

THE ENTIRE JOBSITE AT YOUR FINGERTIPS.

Hilti Robotic Total Stations bring the plans to the jobsite – for a reliable “BIM to jobsite” and “jobsite to BIM” data flow. Functions such as jobsite layout, as-built measurements and other specific measuring tasks (e.g. measuring safety clearance or shifting building control lines) can now be carried out efficiently and reliably by just one person.

Solutions that are right for your business.



*Some limitations apply. Contact Hilti for details.

Tool Fleet Management

Hilti Tool Fleet Management is a usage model with no hidden costs. Simply put, you pay for the use of the tools with a low monthly rate that covers everything to keep those tools where they belong, on the job and working. At the end of the Fleet term, return the tools for new ones and receive complimentary consumables of your choice¹. By cycling out your Fleet tools and replacing them with new tools on a regular schedule, you will constantly have the latest and greatest in tool technology, helping increase productivity and profitability.

Tools On Demand

Eligible Fleet customers² can take advantage of our new Tools On Demand program to further increase their productivity and profitability. Tool Fleet Management provides a core set of tools for a low monthly rate with full service for a term of several years. Tools On Demand is an innovative solution for seasonal and peak tool needs. This service provides tools for three to 12 months.

Tool Rental

If you need tools for just a few days, one of our many independent rental outlets across North America can help. You can find a rental location near you by calling 1-800-879-8000 in the U.S. or 1-800-363-4458 in Canada and speaking to one of our customer service representatives.

¹Hilti consumable credit voucher. Contact Hilti for details.
²Eligible Fleet customers are those with 10 or more tools on their fleet.

Customize your package.

Yearly

Tool Fleet Management
 For use throughout the year, day-in and day-out

Monthly

Tools On Demand
 For special projects or peak times of the year

Daily

Tool Rental
 For immediate short-term use

Step 1 TOTAL STATION ACCURACY

Total station POS 150 (5" accuracy)
 2082890

Total station POS 180 (3" accuracy)
 2082891

Step 2 FIELD CONTROLLER

Controller POC 100 BC
 2088055

Controller POC 100 ME
 2088056

Step 3 MINIMUM REQUIRED ACCESSORIES

Battery POA 84
 2042314
 (2 recommended)

Case POA 100
 2049925

Battery POA 80
 435296

AC adapter POA 81
 435297

Charger POA 87
 2042317

Step 4 RECOMMENDED ACCESSORIES

Reflector rod POA 52
 2042048

Frame clamp POA 76
 2042310

Prism POA 20
 2042043

Tripod PUA 36
 2048717

Step 5 SOFTWARE

Point Creator for AutoCAD
 2068307

Point Creator for REVIT
 2068308

PROFIS Layout
 2005070

Application software

Now everyday applications such as staking out from the plan, measuring and saving data, checking heights, shifting building control lines and measuring clearance distances are available at the touch of a button. Thanks to automatic prism tracking and continuous measurement data capturing, all tasks can be carried out by just one person. This new controller puts the complete building plan in the palm of your hand.

Functionality

- POC 100**
- Import linework via .dxf
 - Horizontal layout
 - As built
 - Missing line
 - Measure and record
 - Calculate areas
 - Use reference lines for layout
 - COGO functionality



POS 15 / POS 18

- Horizontal layout
- Vertical layout
- As built
- Missing line
- Measure and record
- Calculate areas
- Vertical alignment
- Remote heights



PC software

Hilti PROFIS Layout can be used to generate simple plan data, make calculations, transfer previously saved measurement data to other systems or for the purpose of creating documentation.

Hilti Point Creator is a plug-in for AutoCAD and Revit systems that generates point data with attributes from 3D and AutoCAD models. This data can be transferred straight to the Total stations POS 180 and POS 150.

Functionality

- PROFIS Layout**
- Create points, lines and arcs
 - Segment elements to create points for layout
 - Direct transfer of data to the POC 100, POS 15 or POS 18
 - Organize projects using different jobs and layering within the jobs
 - Import points from .txt or .csv formats
 - Various COGO functionality (compute distances, areas and angles)
 - Import a background .dxf
 - Automatically generate points from the .dxf



Point Creator

- Automatically generate layout points within blocks
- Manually create layout points on CAD entities
- Create points on lines and curves
- Export points for layout
- Import points back into design after field collection
- Create points on walls, ceilings and floors - any surface
- Define settings for the creation, export and import of points
- Available for AutoCAD and Revit

