



# ADVANCED LAYOUT SYSTEMS

Innovative measuring  
and layout solutions  
for every jobsite.



# POS 15/POS 18 MECHANICAL TOTAL STATIONS

Right on the point.



## APPLICATIONS

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

## POS 15/POS 18 PERFORMANCE DATA

<b>Angle accuracy</b>	3" / 5"
<b>Distance measurement</b>	Prism + reflectorless
<b>Range</b>	Prism = 4000 m Reflectorless = 500 m
<b>Laser Class EDM</b>	3R

## ADVANTAGES

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

Total Stations >

# PLT 300 / PLC 300 PL SYSTEM

Jobsite layout made easy.



## APPLICATIONS

- Full jobsite layouts using 2D and 3D CAD data
- Laying out building lines with station and offset
- Point layouts using CAD data
- As-built measurements
- Measuring existing jobsite features

## ADVANTAGES

- Automatic tilt compensation – no leveling required
- Green beam laser for highly visible point layouts in bright sunlight
- Automatic stationing for quick and easy daily setup

## HILTI CONSTRUCTION LAYOUT

- Innovative Smart-Layout
- Simple user interface
- In-Field end user support
- Large 22MB capacity
- Construction focused work flow

### PLT 300 PERFORMANCE DATA

<b>Measurement accuracy</b>	3 mm @ 50m (ISO 17123-5)
<b>Distance measurement</b>	Prism + reflectorless
<b>Measurement range</b>	1.5m – 100m
<b>Angular working range</b>	HZ: 360°, V: 225°
<b>Laser Class EDM</b>	Class II green



### PLC 400 PERFORMANCE DATA

<b>Operating system</b>	Windows 7
<b>CPU</b>	Intel® Celeron® N2930 1.83 GHz up to 2.16 GHz, 2MB cache
<b>Storage</b>	2GB SDRAM, 32GB eMMC
<b>Display</b>	7" WXGA 1280 x 800 5-point capacitive multi-touch
<b>Environmental rating</b>	IP 65, MIL-STD-810G, 1,5M drop



Total Stations >

# POS 150/180 ROBOTIC TOTAL STATIONS

Accuracy at the next level.



## APPLICATIONS

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

## ADVANTAGES

- **Efficient:** One-person layout using prism or laser point
- **Simple:** Easy, intuitive operation
- **Reliable:** Hilti quality, service and support
- **Accurate:** Distance measurement with pinpoint accuracy, data saved at the touch of a button

## HILTI CONSTRUCTION LAYOUT

- Innovative Smart-Layout
- Simple user interface
- In-Field end user support
- Large 22MB capacity
- Construction focused work flow

### POS 150/POS 180 PERFORMANCE DATA

Angle accuracy	3"/5"
Distance measurement	Prism + reflectorless
Range	Prism = 4000 m Reflectorless = 500 m
Target tracking range	up to 800 m
Laser Class EDM	3R

### PLC 400 PERFORMANCE DATA

Operating system	Windows 7
CPU	Intel® Celeron® N2930 1.83 GHz up to 2.16 GHz, 2MB cache
Storage	2GB SDRAM, 32GB eMMC
Display	7" WXGA 1280 x 800 5-point capacitive multi-touch
Environmental rating	IP 65, MIL-STD-810G, 1,5M drop



Total Stations >

# PROFIS LAYOUT OFFICE

Jobsite preparation and visualization.

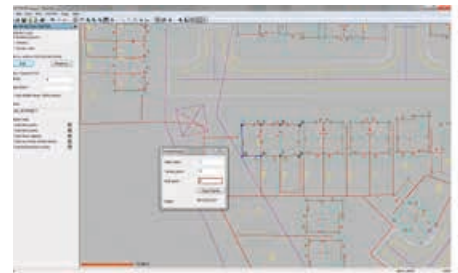


## APPLICATIONS

- Easy creation of a digital replica of your paper construction plans
- Office solution for preparation and evaluation of your data for and from the field
- Creation of layout points from CAD files, files for uploading to the Hilti tool for onboard layout

## ADVANTAGES

- **CAD import:** Ability to import AutoCAD DWG and DXF files for creating layout points
- **Graphical user interface:** Provides direct access to common functions for a shorter learning curve and minimal self-training
- **Standard view controls:** Offer a common user interface designed for anyone with a limited understanding of CAD for fast, easy operation
- **Point creation:** Multiple point selection in Individual, Window, or Current view point selection together with layers for maximum control of point selection
- **Enter plans:** Lets you enter plans on the spot and perform COGO (coordinate geometry) functionality in the office
- **Field to finish:** Easily create CAD-ready deliverables directly from survey data
- **Straightforward:** No need to learn a complex engineering CAD program



## PROFIS LAYOUT OFFICE REQUIREMENTS

Operating system	Windows 7 or later
Computer processor	64-bit quad-core CPU
Computer memory	8 GB RAM
Screen resolution	920 × 1080 pixels
Graphics card	OpenGL-compatible graphics card with > 1 GB
Max. file size	60 MB
Max. number of points	50 000

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## PROFIS Layout Office



One PC office application that lets you seamlessly import and combine data from all your instruments to produce the final results. Manage and combine your data with PROFIS Layout Office to ensure the best results.

Point creation, COGO calculations, datum transformations and volume calculations. With all components integrated in one application, Hilti PROFIS Layout Office lets you manage your project in an integrated way. No need to transfer data between the various modules.

## PROFIS Connect



Hilti PROFIS Connect is a desktop application that connects the POS 15/18 to the PC and various PC application packages such as Sema, Dietrich's CADwork and AutoCAD.

With this solution you can easily transfer coordinates from the total station to the PC application. The primary use for this solution is transferring as-built measurements directly to the design model.

## Point Creator AutoCAD/Revit



Point Creator is designed for construction contractors and engineers who need the ability to easily create 2D and 3D field points within their preferred design file.

This plug-in for AutoCAD and Revit allows users to quickly and easily auto-insert their field layout points for use with Hilti's best-in-class construction positioning and layout systems for easy staking out in the field.

## Volume Calculator add-on

























Volume calculator is an add on for our existing software Profis Layout Office which will help you in more easily calculating cut and fill quantities for earthwork applications.

You can define your calculation settings using different methods, report your calculation results for billing, quotation and verifiability purposes and integrate your volume calculation within your current Hilti workflow. The add on is compatible with all data obtained from Hilti total stations.

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# HILTI SOFTWARE SOLUTIONS

Choose the tool that's right for you.

<b>1</b>	<b>Layout Tool</b>						
	<p><b>POS 15</b> total station</p> <p><b>POS 18</b> total station</p>		<p><b>POS 150</b> robotic total station</p> <p><b>POS 180</b> robotic total station</p>		<p><b>PLT 300</b> layout tool</p>		
<b>2</b>	<b>Field Controller</b>						
			<p><b>PLC 400</b> controller</p>				
<b>3</b>	<b>Minimum Required Accessories</b> (Accessories are specific to the tool)						
	<p><b>POA 99</b> battery</p>		<p><b>POA 86</b> charger</p>		<p><b>POA xxx</b> battery</p>		<p><b>POA 116</b> radio bridge</p>
	<p><b>POA 90</b> battery</p>		<p><b>POA 86</b> charger</p>		<p><b>POA xxx</b> charger</p>		
<b>4</b>	<b>Recommended Accessories</b> (Most accessories are common to all these tools)						
	<p><b>POA 20</b> 360° prism</p>		<p><b>POA 52</b> pole</p>		<p><b>POA 73</b> frame clamp</p>		
	<p><b>POA 25</b> 360° prism</p>		<p><b>POA 36</b> tripod</p>		<p><b>POA 75</b> bipod</p>		<p><b>POA 79</b> frame clamp</p>
<b>5</b>	<b>Software</b> (Compatible with all systems)						
							
<b>PROFIS Layout Office</b>	<b>PROFIS Connect</b>	<b>Point Creator AutoCAD/Revit</b>	<b>Volume Calculator add-on</b>				



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