

Hilti
PS 250
Ferroscan
PS 1000 X-Scan
detection systems

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Inside insight.



Detection systems

Ordering designation	Item no.
PS 250 Ferroscan system with scanner, monitor, headset, 2 battery packs, 2 AC adapters, reference grids, data cable, PC software, adapter IR, data modul; packed in a Hilti toolbox	① 000000
PS 200 S Ferroscan Set with scanner, battery pack, adapter IR, data cable, PC software; packed in a Hilti toolbox	② 000000
PS 1000 X-Scan system with scanner, monitor, 3 battery packs and 2 AC adapters, connecting cable for data transfer, reference grids, memory card, PC software; packed in a wheeled Hilti toolbox	③ 2007503
PS 1000 X-Scan with scanner, 2 battery packs, AC adapter, reference grids, memory card, PC software; packed in a Hilti toolbox	④ 2007501

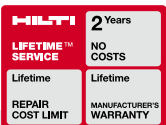
Accessories

	PS 250	PS 1000	
PSA 100 monitor with soft case, battery pack and AC adapter	■	■	2006082
PSA 10 reference grid , in mm	■		377654
PSA 12 reference grid , in mm		■	2006083
PSA 14 reference grid , in mm		■	2006085
PSA 75 brush	■	■	2013776
PUA 70 marking pens , 12 pcs	■	■	340806
PUA 90 adhesive tape	■	■	319362
PSA 50 connecting cable , 2 m, for data transfer PS 1000 – PSA 100		■	2006185
PSA 51 connecting cable , 10 m, for data transfer PS 1000 – PSA 100		■	2006186
PSA 55 adapter IR for buffering data, with PUA 95 data cable	■		2044480
PUA 95 data cable for Data transfer PSA 55 Adapter IR - PC	■		2044481
PSA 65 carrying device for the PSA 100 monitor	■	■	2006200
PSA 70 extension for PS 1000 X-Scan (floor applications)		■	2006199
PSA 80 battery pack for scanner and PS 200 M monitor	■		377472
PUA 80 AC adapter for the PSA 80 battery pack	■		000000
PSA 81 battery pack for PS 1000 X-Scan		■	2006182
PSA 82 battery pack for PSA 100 monitor	■	■	2006183
PUA 81 AC adapter for PSA 81 and PSA 82 batteries	■	■	2006089
PUA 82 motor vehicle power adapter for PSA 81, PSA 100	■	■	2006180
PSA 85 battery charger for PSA 82 battery pack	■	■	2006183
PSA 91 memory card MMC card (for PS 200 M monitor, item no. 319281)	■		305141
PSA 94 memory card SD card (for PS 200 M monitor, item no. 031225)	■		319911
PSA 95 memory card for PS 1000 X-Scan		■	2006184
PSA 92 data cable for data transfer between the monitor and PC	■		305142
PSA 93 headset for voice recording with the monitor	■	■	305143
PS 250 toolbox	■		2044482
PS 1000 toolbox		■	2006188
PS 1000 system toolbox		■	2006201

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Inside insight.

Hilti. Outperform. Outlast.

Get a visible handle
on rebar.



Non-destructive inspection of concrete structures, e.g. locating reinforcement or tensioning tendons.



Locating objects in concrete structures before drilling penetrations or breaking out openings.



Rebar detection and verification for acceptance inspections, changes of building use or post-installed rebar connections.



Measurement of depth of concrete cover for acceptance inspections, renovation work and quality checks.

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Applications

- Rebar verification and analysis
- Checking concrete cover over large areas for acceptance inspections and structural repair work

Advantages

- Scans large areas of concrete quickly and easily
- Provides accurate depth of cover measurements for reinforcement at depths up to 100 mm
- Records scan data automatically over lengths of up to 30 meters
- Displays a clear 2D image of the reinforcement on the monitor for on-the-spot structural analysis and depth of cover assessment or printing

Highlights

PC software for professional scan evaluation and data management

Hilti PROFIS Ferroscan:

- Subsequent data analysis on a PC
- Collective evaluation of several individual scans with the same parameters, use of various data formats, and much more
- Production of statistics and assessment reports

Hilti PROFIS Ferroscan MAP:

- Capable of combining multiple scans for visual presentation (in 2D/3D views)
- Provides data evaluation and visualisation of areas up to 45 x 45 m

Take a quick look beneath the surface.

The Hilti PS 250 Ferroscan system provides a non-destructive means of locating reinforcing bars and measuring their depth of concrete cover. This complete, easy-to-use cordless detection system, consisting of a scanner, monitor and PC software can also estimate the diameter of rebars found. Employing the induction principle, the scanner locates rebars accurately and reliably within concrete structures. The results of scans are displayed on the portable monitor unit as easily interpretable 2D-images for direct on-site data analysis. Alternatively, scan data can be transferred to a PC via an adapter or via the monitor unit for further analysis, creation of assessment reports and for archival purposes.



Imagescan

- Scans large areas of concrete in a grid pattern
- Locates rebars at depths of up to 160 mm
- Produces clear, easily interpretable 2D images of the layout, for measurement of depth of concrete cover and for estimation of rebar diameter
- Multiple Imagescans can be combined for large-area analysis using the PC application

Quickscan Detection

- Quickly measures the depth of cover over reinforcing bars located at depths of up to 100 mm, allowing their positions to be marked directly on the concrete surface

Quickscan recording

- Scans long stretches of up to 30 m in length, quickly and easily
- Records and evaluates the data automatically while indicating the average depth of cover, the number of bars found and the standard deviation
- Multiple Quickscans can be combined for large-area analysis using the PC application



Imagescan

- Scans large areas of concrete in a grid pattern
- Locates metal and plastic pipes as well as electric cables and conduits at depths of up to 300 mm in dry concrete
- Detects objects located behind reinforcing mesh
- Shows objects in a 2D or 3D plan view and cross-sectional view for immediate analysis

Quickscan Detection

- Quickly locates various objects in concrete, allowing their positions to be marked directly on the working surface

Quickscan recording

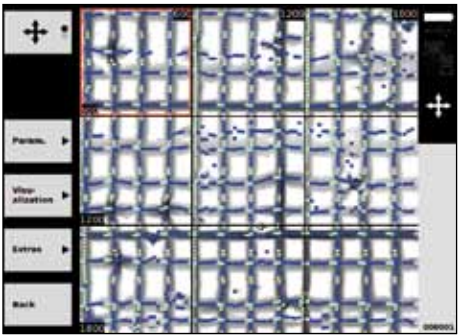
- Scans stretches of up to 10 m in length, quickly and easily
- Shows objects in 2D or 3D plan views and cross-sectional views
- Handy extension available for easy floor scanning



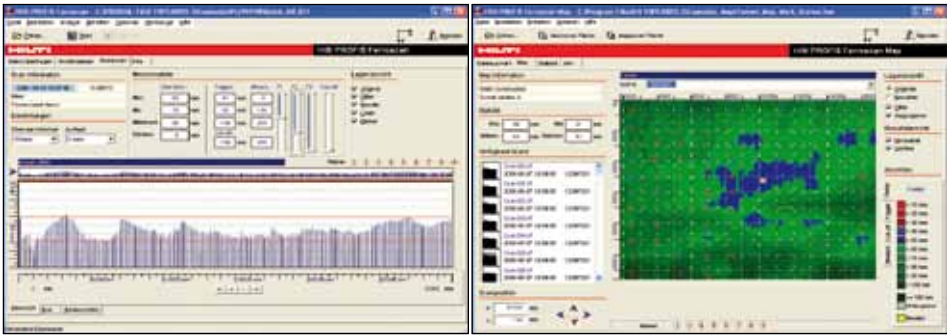
Performance data

	PS 250 Ferroscan
Detection range	max. 160 mm, see op. instructions
Localization accuracy	± 3 mm, see op. instructions
Depth measurement accuracy	± 1 mm, see op. instructions
IP protection class	IP 54
Operating temperature range	-10 to + 50°C
Battery life, scanner / monitor	8 h with NiMH / 2 h with Li-ion battery pack
Dimensions / weight, scanner	260 x 132 x 132 mm / 1.4 kg
Dimensions / weight, monitor	292 x 208 x 65 mm / 2.3 kg

We reserve the right to make technical changes.



A Blockscan displayed on the monitor for on-the-spot analysis of reinforcement (location, depth, diameter).

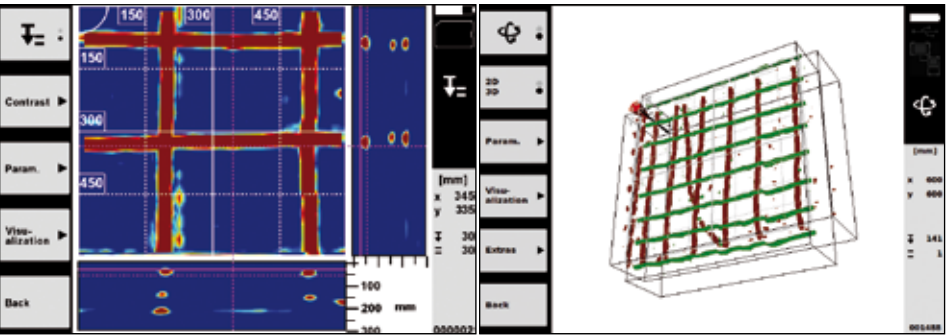


Quickscan data for analysis of depth of concrete cover, displayed using the Hilti PROFIS Ferroscan PC application.

Ferrosan MAP combines multiple scans in a large-area view showing where depth of cover is inadequate (with statistics).

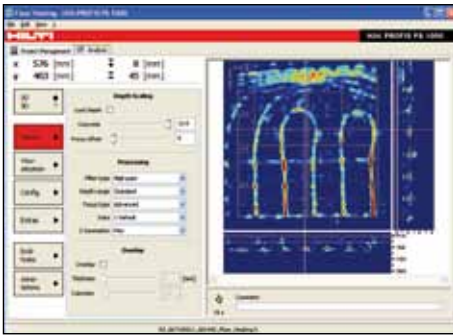
The two systems compared

PS 250 Ferroscan		PS 1000 X-Scan
■	Locating reinforcing bars	■
	Locating pre- and post-tensioning tendons	■
	Locating cavities	■
	Locating plastic pipes and electric cables	■
■	Measuring depth of concrete cover	
■	Determining rebar diameter	
	Detecting objects in multiple layers	■
	Estimating wall and slab thickness	■



2D representation of an Imagescan shown as a plan view and cross-sectional views on the PS 1000 display.

3D Imagescan (plan views, cross-sectional views) for on-the-spot visualization and analysis on the PSA 100 monitor.



Advanced software with comprehensive evaluation and analysis features for the creation of reports and documentation.

Performance data

	PS 1000 X-Scan
Detection range	max. 300 mm, see op. instructions
Localization accuracy	± 10 mm, see op. instructions
Depth measurement accuracy	± 10 mm, see op. instructions
IP protection class	IP 54
Operating temperature range	-10 to +50°C
Battery life, scanner / monitor	4 h / 2 h with Li-ion battery pack
Dimensions / weight, scanner	318 x 190 x 143 mm / 2.5 kg
Dimensions / weight, monitor	292 x 208 x 65 mm / 2.3 kg

We reserve the right to make technical changes.

Applications

- Non-destructive inspection and detection of concealed objects in steel-reinforced and prestressed concrete structures
- Detecting metal or plastic pipes and electric cables to avoid damage when drilling
- Locating rebars for post-installed rebar connections

Advantages

- Locates objects of various kinds in concrete structures, even beneath reinforcing mesh
- Displays a clear, real-time 2D image directly on the Hilti PS 1000 display
- Processed 2D and 3D plan view or cross-sectional images are displayed in color on the PSA 100 monitor unit for further on-the-spot evaluation of the data or printing

Highlights

X-Scan, because it's Xtra fast.

A compact, cordless system consisting of scanner, monitor and PC software. Quickly ready for use, easy to operate and featuring high memory capacity for clearly interpretable color images of the objects concealed in concrete structures, allowing immediate analysis.