DATASHEET

HP SitePrint

Robotic solution for autonomous layouts

We've combined our printing knowhow and robotics technology to revolutionize construction site layouts bringing breakthrough efficiency.

Groundbreaking performance and productivity[1]

Save on manual work and reduce costs with automated layout and real-time floor deviation marking.

Autonomous printing with obstacle avoidance.

Printed on-slab text helps deliver executions as per plan.

Accurate layouts

Complete layout projects and print floor deviation data accurately.

Complex layouts spot-on, laying out intricate arcs and circumferences.

Raise the bar of predictability, minimizing redos and with great rigor.

One easy solution to do it all

Simple layout and floor deviation marking management.

Facilitate collaboration among trades by sharing the latest BIM/CAD model and printing clear indications on the slab.

Compact design that fits in a portable case for effortless transport.

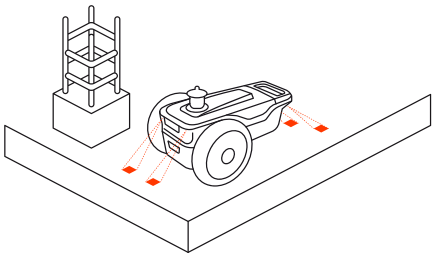
The robotic solution for autonomous layouts in various site conditions

Construction sites are one of the most unpredictable environments and conditions change on a regular basis. HP SitePrint adapts to your job site's conditions to deliver efficient and accurate layouts – safely and seamlessly. HP SitePrint is also the first robotic layout solution that unifies floor deviation marking in a real-time consolidated process. It is designed to:

- Achieve precision navigation and printing on rough surfaces: its printhead is positioned ¾" or 19 mm above the floor to prevent collisions and to allow printing on areas that don't require a broom-swept floor.
- Operate in temperatures ranging from -10ºC to 50ºC, allowing you to layout no matter the season.
- Cut down workdays with an all-in-one floor deviation marking process including measuring floor levels while performing layouts, processing data, and marking deviations – all on-site in real-time.
- HP SitePrint offers a comprehensive portfolio of 8 easily interchangeable inks designed for a variety of surfaces – like tarmac, rough concrete, plywood, or formwork, amongst others – and different durability requirements from permanent to erasable.

Safety Stop Technology

Safety is always a top concern for construction companies. Construction sites' dynamic nature can make them unstable and unsafe, so ensuring the safety and well-being of workers is a main priority.



Full autonomy can only be achieved if you can trust the robot to safely perform in any circumstance. The robotic layout system operates autonomously by incorporating two sets of sensors: a first set that prevents collisions, and a second set that is hardware-activated, and prevents accidental falls by continuously monitoring its environment to safely detect any potential obstacles, cliffs, or depressions– establishing it as a secure robotic solution for sites.

HP SitePrint's safety features are fully certified, so you can be sure it successfully meets the prescribed industrial safety standards:

- United States & Canada CAN/UL 3100 TÜV SÜD Certified.
- EU MD compliant EN 1175, EN 60204-1, EN ISO 3691, EN ISO 13849

Adapted to your current layout workflow

Automating your layout process is easier than you think

HP SitePrint pairs with a Robotic Total Station (RTS) to achieve precise layouts. It is fully integrated in the workflow that you use, with the same software that allows you to use your RTS for other tasks on the construction site. As of November 10th, 2025, it is compatible with leading RTSs in the industry; including the Leica iCR70, Leica iCR80, Leica TS16, Leica TS60, Topcon GT-1200/600, Topcon LN-150, Topcon LN-160, Trimble Ri, Trimble RTS573, Trimble S9.

Professional support from our network of industry partners

Time is crucial in construction: delays can result in extra costs – significantly impacting the financial viability of the project's stakeholders.

That's why we are committed to providing timely and efficient solutions through our extensive network of industry expert partners, who provide support for both HP SitePrint and Robotic Total Stations.

Our local HP SitePrint Specialists network ensures there is always an expert close to you ready to offer personalized advise, consultancy, remote and on-site support, or provide a unit swap when necessary, to prevent delays and increase uptime.

Flexible Pay as You Go model tailored to your business's needs

Reliable service and support contracts are fundamental in keeping projects on track – ensuring that equipment and tools are available whenever you need them.

HP SitePrint is a cost-effective solution that adapts to the needs of construction professionals. The HP SitePrint cloud management tool includes a simulator for cost and time calculations, to predict time of completion and costs for jobsite layout execution.

HP SitePrint comes with a comprehensive support contract bundled into a Pay as You Go usage rate, which covers all the essentials to run the robot for smooth operation: unlimited inks, support with repairs included, and software and firmware upgrades.

The cost adjusts based on customer output with monthly caps for high-volume users. The monthly cap allows cost control knowing the maximum you will pay per month. In all cases, you only pay for what you use.

What's Included

HP SitePrint Pay as You Go support usage rate includes unlimited inks designed to print on a variety of surfaces, remote and on-site support services from our specialists, comprehensive coverage including parts and repairs, plus access to the last software updates and the latest firmware versions.

We are constantly developing new features and enhancements and delivering them through software upgrades. This way, our customers will always have the most advanced and reliable version of the product.

Technical Specifications

General

General	HP SitePrint Robot
Product	A2PS9A
Power Management	Exchangeable Lithium-Ion battery. Each battery has a runtime of 4 hours. By combining both batteries, you can sustain continuous operation throughout an entire day shift.[2]
Application	Layout for building construction: interior walls, Mechanical, Electrical, Plumbing, Fire Protection, HVAC and Formwork
Material	Porous surfaces: polished and rough concrete, tarmac and wood. Non-porous surfaces: terrazzo, vinyl and epoxi
Obstacle Avoidance	4 Safety sensors to avoid falloffs 3 LiDAR sensors to avoid collisions Depth Camera for HP Smart Navigation System
Step Overcoming Capacity	0.74 in (19 mm)

Printing

Ink Cartridge	1 cartridge (400ml Ink System)
Printing Speed	Up to 5,314 ft/h (1.260 m/h)
Navigation Speed	8.267 ft/h (2.520 m/h)
Minimum Printable Width	0.08 in (2 mm)
Maximum Printable Width	2 in (51 mm)
Printable Elements	Lines, Text, dashed-lines, curved lines, circumferences.
Printhead to Floor Distance	0.74 in (19 mm)
Print Accuracy Tolerance	1/8 in (3 mm)[3]
Floor Level Accuracy Tolerance	3/32 in (2 mm)[5]

Ink

7J3Q9A	HP SitePrint 100 - Blue SB Semi-Permanent
76Y83A	HP SitePrint 101 - Red SB Semi-Permanent
76Y82A	HP SitePrint 102 - Black SB Permanent
7J3R0A	HP SitePrint 103 - Black WB Permanent
7J3R1A	HP SitePrint 104 - Cyan WB Permanent
7J3R2A	HP SitePrint 105 - Magenta WB Permanent
76Y80A	HP SitePrint 107 - Cyan WB Semi-Permanent
76Y81A	HP SitePrint 108 - HP SitePrint 108 - Magenta WB Semi-Permanent
76Y84A	HP SitePrint 109 - HP SitePrint 109 - Cleaning Fluid

Environmental

Protection	IP44/NEMA1
Maximum Slope	2.5º
Recommended Operating Temperature Range	From 14ºF (-10ºC) to 122ºF (50ºC)
Operating Humidity	20%-80%
Operating Altitude	2,000 m

Dimensions

Dimensions	Printer only: 20.6 x 12.4x10.2 in (52.5 x 31.7 x 26.1 cm) With transportation case: 24.6 x 19.3 x 14.4 in (62.5 x 49.0 x 36.5 cm)
Weight	Printer only: 19.8 lb (9.0 kg) With transportation case: 42.1 lb (19.1 kg)

Connectivity

RTS Compatibility

Leica iCR70/80, Leica TS16, Leica TS60.
Topcon GT-1200/600, Topcon LN-150, Topcon LN-160.
Trimble Ri, Trimble RTS573, Trimble S9

Connectivity	Bluetooth, 4G, WiFi

Certifications

Safety	United States & Canada CAN/UL 3100 TÜV Certified; EU MD compliant EN 1175, EN 60204-1, EN ISO 3691, EN ISO 13849.
Electromagnetic	Compliant with Class A requirements, including USA (FCC rules), Canada (ICES), EU (RED), Australia (ACMA), New Zealand (RSM).
Environmental	WEEE, EU RoHS, REACH, CE marking compliant.

1. Up to ten times the productivity' claim is based on data from pilot case studies where HP SitePrint was used- comparing the HP SitePrint performance either to the manual chalk-line layout that was done before HP SitePrint was used on the same job or to the customer estimation on the time/resources needed based on experience with similar projects. Exact improvement factors will vary from project to project and can be influenced by multiple factors, such as the line density or the dimensions of the site.

2. Battery life was tested at 68ºF (20ºC). The battery retains over 75% of its initial capacity after 300 charging cycles.

3. Print Accuracy Tolerance of +/- 1/8 in (+/- 3 mm) average while operating with a 3" Total Station at a distance between 15.4 ft and 98.4 ft" (5 m and 30 m"). Absolute position values are dependent on the RTS stationing.

4. Recommended operating temperature range: Water-Based Inks from 32ºF to 122ºF (0ºC to 50ºC) and Solvent-Based Inks from 15ºF to 122ºF (-10ºC to 50ºC)

5. Floor Level tolerance of +/- 3/32 in (+/- 2 mm) average while operating with a 3" Total Station at a distance between 15.4 ft and 98.4 ft "(5 m and 30 m)". Absolute position values are dependent on the RTS stationing.

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