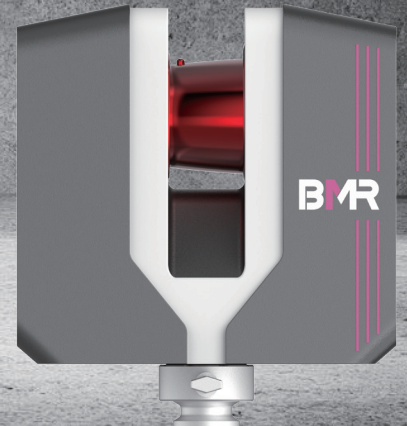


One-Click Measurement Faster, Better, More Economical

Measuring Robot



Industry Pain Points

Traditional construction quality inspection relies heavily on manual operations and multiple instruments, resulting in complex processes, low efficiency, and inaccurate results, making it difficult to achieve efficient, comprehensive, and objective evaluation.

Low Efficiency

Heavy workload and long time consumption

Low Accuracy

Outdated tools with large errors

Incomplete Coverage

Limited sampling measurements

Opaque

Repeated measurements by multiple parties

Difficult Maintenance

Fragmented manual records

Precision Master Series Measuring Robot — Quality Speaks Through Data; Data-driven Transformation, Redefining Construction Quality Standards

Product Introduction*

The measuring robot is a high-efficiency, high-precision, intelligent, and multi-purpose measuring robot. It is widely applied to construction quality inspection in residential and public buildings, covering scenarios such as indoor as-built measurement, building façade measurement, basement floor flatness measurement, and concrete surface measurement. The robot supports panoramic image capture, point cloud data acquisition, real-time reverse BIM modeling, and construction material quantity calculation. It can also operate in coordination with concrete finishing robots and interior finishing robots, forming a closed-loop workflow that spans problem detection, issue documentation, and corrective execution, thereby enabling comprehensive quality control throughout the construction process.

High Efficiency

Single scan with full-area coverage. Single-room measurement takes only 2 minutes, with an operating efficiency of over 300 m²/h.

High Precision

High-precision imaging and image-processing scanner with an accuracy of ± 1 mm

Intelligent

AI measurement algorithms with intelligent multi-scenario recognition

Low Cost

Measurements can be completed by one person, saving approximately 70% in overall costs compared with traditional construction

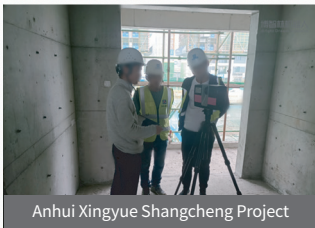
Main Parameters*

Product Name		Measuring Robot CL10	Measuring Robot CL100	Measuring Robot CL400
Main Parameters	Dimensions (LxWxH)	238x218x120mm	230x183x103mm	230x183x103mm
	Weight	3.9kg	4.4kg	4.4kg
	Measurement Range	0.6~30m	0.5~100m	0.5~400m
	Measurement Accuracy	±1.50mm	±1.00mm	
	Temperature Range	-5°C to +45°C	-10°C to +55°C	
	Laser Class	Class 1 laser, eye-safe		
	Battery Life	4h		
	Measurement Efficiency	2 min/station, 300 m ² /h		
As-built Measurement	Structural Stage	●	●	●
	Masonry Stage	●	●	●
	Plastering Stage	●	●	●
	Finishing Stage	●	●	●
	Unit Acceptance Inspection	○	●	●
Digital Delivery	Panoramic Photos	○	Optional	●
	Point Cloud Models	●	●	●
	BIM Model	●	●	●
	Material Quantity Calculation	●	●	●
	Multi-robot Linkage	●	●	●

Application Cases*

- To date, the measuring robots have been applied across more than 23 provincial-level administrative regions, including Xinjiang, Beijing, Shandong, Chongqing, Sichuan, Jiangsu, and Hainan, with over 800 projects completed and a cumulative delivered area of approximately 20,000,000 m².
- Compared with traditional construction, the overall construction cost using measuring robots is reduced by approximately 70%; measurement efficiency is high with wide coverage, eliminating repetitive manual work; measurement data are accurate and comprehensive, meeting construction quality acceptance requirements. The product has received unanimous praise from customers including CCCC First Highway Engineering Bureau, CSCEC Fifth Engineering Division, Xi'an High-Tech New Development, Beijing Construction Engineering Group No. 4, and China Metallurgical Group.

(*Robot construction costs, in addition to robot-related costs, are also affected by factors such as on-site project conditions, proficiency of human-robot collaboration, and construction management level. Actual project data shall prevail.)



Service Commitment

Free one-time on-site delivery, installation, and on-site guidance for new machines⁽¹⁾; free installation and operation training; free remote technical support and consulting services; lifetime on-site service⁽²⁾; 1-year warranty for the complete machine⁽³⁾; 5-year spare parts supply guarantee; 7x24-hour service hotline; on-site service within 24 hours in stationed cities and 48 hours in other cities (excluding remote areas), or on-site service as agreed.

Notes: (1) One free on-site installation service is included. (2) During the warranty period, warranty-covered items are serviced free of charge; services beyond the warranty period or non-warranty items are provided at a charge. (3) Accessories and consumables are not covered by the warranty. High-quality accessories and consumables are available for customer purchase.

Official Website: <https://www.bm-robot.com>

Service Hotline: **400 988 2007**

(*Data are sourced from the BRIGHT MASTER ROBOTICS Laboratory. The final right of interpretation belongs to BRIGHT MASTER ROBOTICS. As technology is continuously updated, BRIGHT MASTER ROBOTICS reserves the right to modify its products. If technical parameters or product functions are changed, no further notice will be given. The actual delivered product shall prevail.)



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