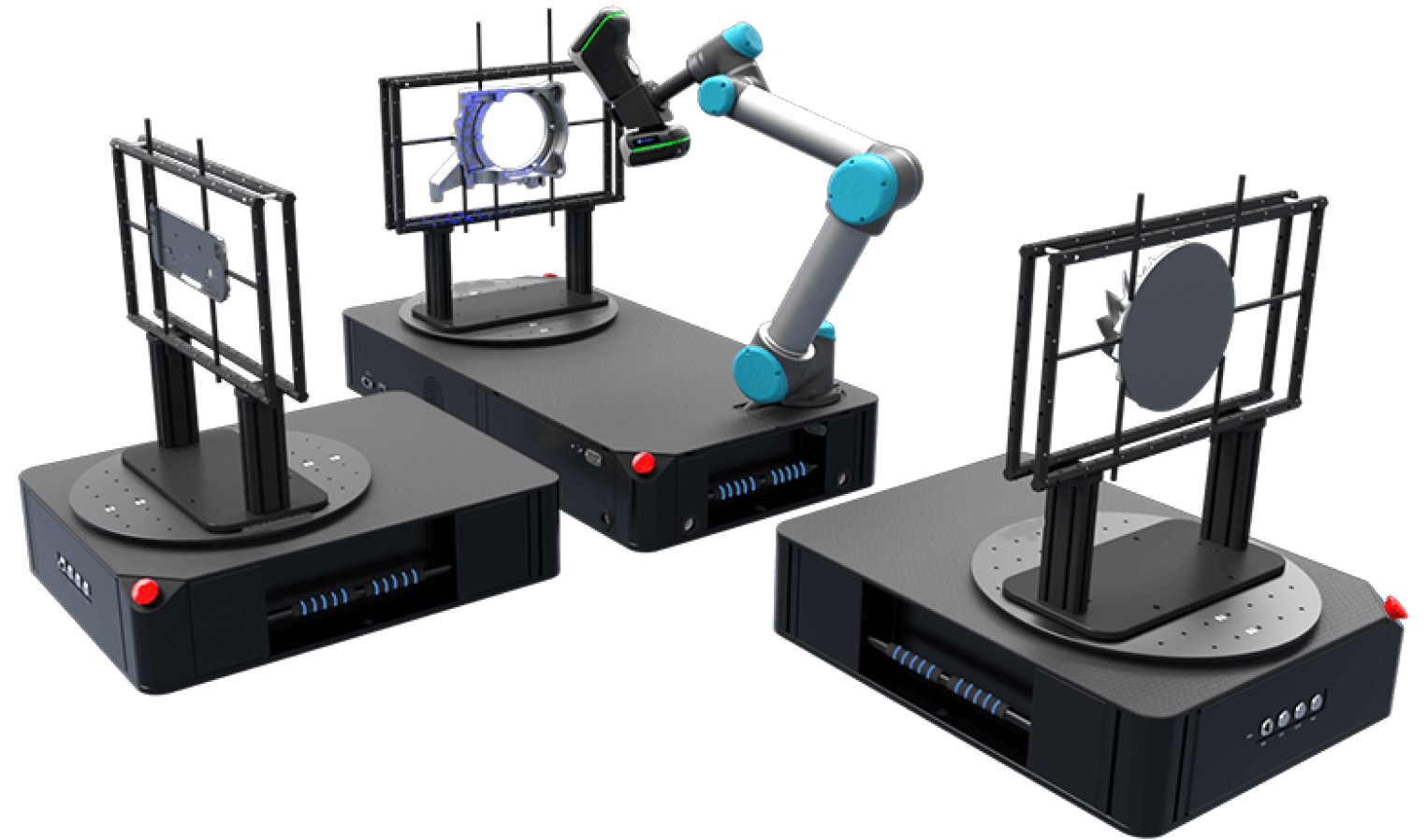


AM-DESK Automated

AM-DESK can be paired with different collaborative robots and SCANTECH's entire fleet of 3D scanners to measure numerous parts automatically. It suits well for on-site inspections on shop floors, in labs, and under harsh conditions to ensure continuous 3D measurement with high precision.

In compliance with standards of CE certification, the station ensures operators' safety with all-round methods. With versatile accessories, the station can achieve automated and uninterrupted 3D measurements for complex parts.

The station comes with powerful and easy-to-use 3D software DefinSight-Automation, which has a simple user interface to allow for smooth human-machine interaction. The software has multiple communication methods to support the functioning of various collaborative robots and enables automated measurement with multi-positioners in different scenarios.



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SCANTECH (HANGZHOU) CO., LTD

Features



Robust Performance

AM-DESK is the trusted 3D measurement station for various tasks whether in lab or on the shop floor. It enables fast and automated inspections for parts ranging from casting parts, plastic parts to stamping parts within 100 kilograms.

Once the measurements are completed, the station can generate inspection reports automatically by comparing actual 3D coordinates and CAD data, significantly enhancing efficiency.

Easy Programming and Automated Calibration

Engineered with PLC and servo-mechanists system, the station can achieve programmable and automated measurement when paired with multiple collaborative robots. At the click of a button, it can conduct complex measurement tasks per preset measuring paths. Engineers and operators with different levels of expertise and programming skills can operate it with ease.

When used in an unstable environment for high-intensity operations, instruments need to be calibrated to ensure high-precision measurement results. The station can fully and automatically calibrate* its sensor after a scanning session or when the temperature changes to ensure uninterrupted measurements.

* AM-DESK Lite does not support fully automated calibration.



Safety Guard

The station is CE marked, meeting EU's safety, health, and environmental requirements. It adopts highly safe methods, including serial arrangement for emergency stop, a buzzer to indicate potential dangers with lights and sounds, and controllable force distance with servo-mechanists to ensure safe operations.

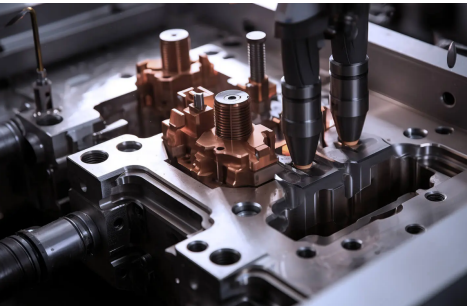
When paired with cobots*, it supports 10-grade collision detection and sensor safety detection to stop the robot from operating due to abnormal or potential dangers.

*The next robotic generation-known variously as “workplace assistant robots”, “collaborative robots” or just “cobots”-are designed to operate uncaged alongside people.

Technical Specifications

Type	AM-DESK 60120	AM-DESK Lite
Dimension	1200 x 600 x 177 mm (47.2 x 23.6 x 7.0 in)	1200*600*180 mm (47.2 x 23.6 x 7.1 in)
Weight	75 KG (165.3 lb)	70 KG (154.3 lb)
Turntable Payload	≤125 KG (275.6 lb)	≤75 KG (165.3 lb)
Max Rotational Speed of Turntable	50°/S	40°/S
Communication Interface	TCP/IP	TCP/IP
Robot Supported	UR5 AUBO i5 JAKA ZU5 Han's E05-L ELITE CS66/EC66/EA66 EFORT ECR5 FAIR FR5	
Power Supply	110 V-220 V/50-60 Hz	220 VAC/50-60 Hz
Peak Power	900 W	700 W

Applications



Mold

This 3D object scanner streamlines mold design, inspection, and repair tasks with its top-notch scanning capabilities. It enables quick capture of intricate details for design improvements and accurate inspections, reducing rework and waste. When maintenance or repairs are needed, the scanner helps visualize defects and plan precise repair strategies, extending mold lifespan and ensuring seamless functionality.



Automotive

This handheld 3D scanner enables precise capture of automotive components for rapid prototyping and supports quality control tasks by detecting defects and ensuring compliance with standards. Additionally, it aids in customization, maintenance, and assembly operations, enhancing productivity and innovation in automotive tasks.



Energy & Heavy Industry

The portable 3D scanner provides advanced scanning capabilities for wind turbines, hydraulic power systems, and construction machinery. It enables precise scanning and detailed 3D modeling of components, supporting tasks such as maintenance planning, defect detection, and performance optimization.



Non-industry

The handheld 3D scanner serves various industries like healthcare, sculpture, education & research, and entertainment. It aids in surgical planning, digital sculpting, artifact study, and prop/model creation for movies and gaming. Its versatility, accuracy, and ease of use make it essential for fostering innovation and practical applications across these diverse sectors.



Rail Transportation and Ship

SCANTECH 3D laser scanner facilitates precise scanning and modeling of rail tracks, train parts, ship hulls, propellers, and engine components. The scanner supports maintenance planning, defect detection, quality control, and assembly verification, contributing to improved productivity, safety, and reliability in both rail and maritime operations.



Aerospace

The 3D scanner excels in quality control by accurately inspecting components for defects, dimensions, and surface finish. Additionally, the scanner allow quick capture of complex geometries for rapid prototyping that contributes significantly to improved efficiency, quality, and safety in aerospace manufacturing and maintenance tasks.