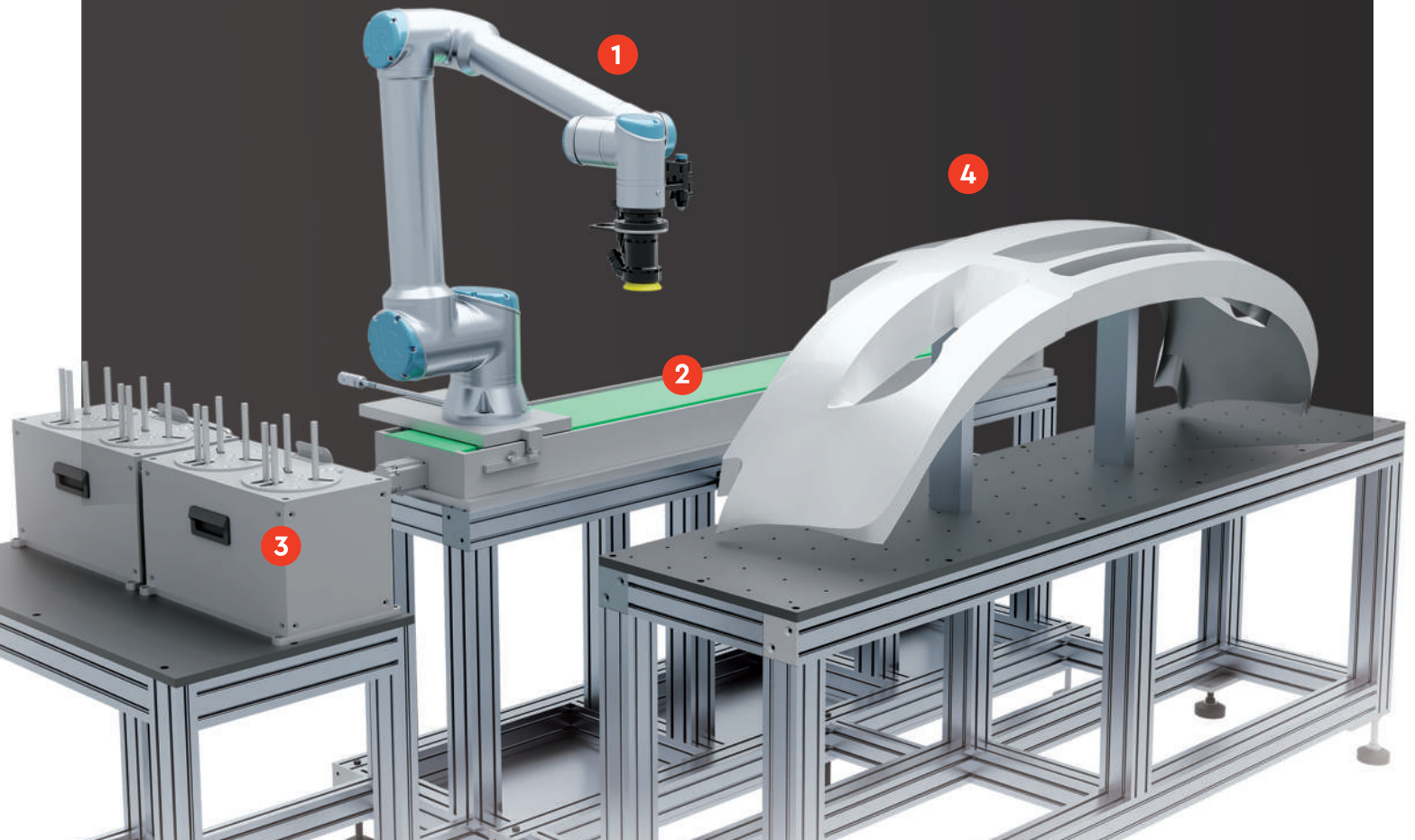


AIDIN ROBOTICS

AIRO-One Solution for Surface Finishing



✓ Suitable for grinding, surface treatment, and machining in **various production environments** !

1 Robot Arm + Tool

Precision

Adaptive Force Control | Precise and stable force control even on complex curved surfaces
Force range : **5~75N**

2 Linear Guide

7-Axis System

Extended Workspace | Linear guide integration for large-scale surface handling

3 Media Management System

Efficiency

End-to-End Automation | Fully automated supply, polishing, and inspection process

4 Vision System

Flexibility

AI Auto-Pathing | 3D vision-based optimal trajectory without manual teaching

Solution
Introduction Homepage Contact Us



▼ The advantage of AIRO-One Solution for Surface Finishing



Self-developed 6 axis F/T sensor
& high-performance robot controller
ensure $\pm 0.1\text{N}$ precision



High productivity
with 16 hours daily operation



Low initial cost, ROI within 2 years



Robot performs control execution
with no additional equipment



Easy & Fast

Intuitive interface
for easy programming
and fast deployment

▼ Specification

Item	Description
Minimum Layout	1500mm * 1500mm
Installation Type	Selectable according to the customer's environment (Room Type / Custom Type)
Application	Automotive (body panels, hood surfaces, exterior design components) Semiconductor (display copper plates) Furniture (exterior surface polishing) Housings Die-cast components
Material Removal Rate	Ultra-fine ($\leq 0.25 \mu\text{m}$)
Compatible Products	Supports all product lengths

▼ The composition of AIRO-One Solution for Surface Finishing



Collaborative Robot
(Universal Robot UR10e)



6 axis F/T Sensor
(AFT200)



Robot Motion Controller
(ARC)



Other customizable tools
(Tailored to fit the
customer environments)

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