

Zturnbuilder X

Autonomous All-Scenario Compact Welding Robot

High-mobility intelligent welding solution for small and medium welding applications.



PRODUCT HIGHLIGHTS

- **Agile Mobile Operation**
Fast deployment for compact welding jobs

● **Compact Workpiece Adaptability**
Handles small structures and box-type parts
- **Lightweight & Compact**
Easy to deploy and maneuver

● **Repeat Positioning Accuracy**
±0.02 mm for stable welding
- **Travel Range**
15-20 km (winter) / 20-30 km (summer)

● **Multi-Position Welding**
Horizontal, flat, vertical and overhead

CORE SPECIFICATIONS

Product	Autonomous all-scenario compact welding robot (X)
Model	WMM-ZLHJ-C900
Net Weight	369 kg
Dimensions	1915 × 800 × 1415 mm
Effective Working Radius	900 mm
Battery	48 V / 15 Ah lithium iron phosphate
Battery Qty.	1
Max. Safe Travel Speed	4 km/h
Travel Range	15-20 km (winter) / 20-30 km (summer)
Max. Vertical Welding Height	1385 mm
HMI	12-inch display
Repeat Positioning Accuracy	±0.02 mm
Welding Process	Gas Metal Arc Welding (GMAW)
Welding Positions	Horizontal, flat, vertical, overhead
Welding Wire	Ø0.8-Ø1.6 mm

APPLICATION VALUE

- 01 **Higher Efficiency, Lower Cost**
Automated welding reduces labor dependence and improves productivity.

02 **Flexible Workstation Adaptation**
Agile deployment for small and medium welding scenarios.

03 **Improved Weld Consistency**
Stable process output helps ensure reliable weld quality.

APPLICATION SCENARIOS



1 Small steel structures



2 Box & frame welding



3 Tooling / fixture stations



4 Equipment structural parts



5 Flexible welding cells

Zturnbuilder X Pro

Autonomous All-Scenario Compact Welding Robot

Highly adaptable intelligent welding solution for flexible welding applications.



PRODUCT HIGHLIGHTS

- **Agile Mobile Operation**

Fast deployment for compact welding
- **Working Radius**

1300 mm for a larger operating envelope
- **Max. Arm Reach**

1525 mm for more welding points
- **Repeat Positioning Accuracy**

±0.03 mm with stable output
- **Travel Range**

19 km for sustained operation
- **Multi-Position Welding**

Horizontal, flat, vertical and overhead

CORE SPECIFICATIONS

Product	Autonomous all-scenario compact welding robot (X Pro)
Model	WMM-Xpro-C1300
Net Weight	290 kg
Dimensions	2838 × 806 × 1220 mm
Working Radius	1300 mm
Max. Arm Reach	1525 mm
Battery	48 V / 15 Ah lithium iron phosphate
Battery Qty.	1
Max. Safe Travel Speed	3 km/h
Travel Range	19 km
Turning Angle	Chassis 360°
Repeat Positioning Accuracy	±0.03 mm
Welding Process	Gas Metal Arc Welding (GMAW)
Welding Positions	Horizontal, flat, vertical, overhead
Welding Wire	Ø0.8-Ø1.6 mm
Towed Unit Weight	195.5 kg

APPLICATION VALUE

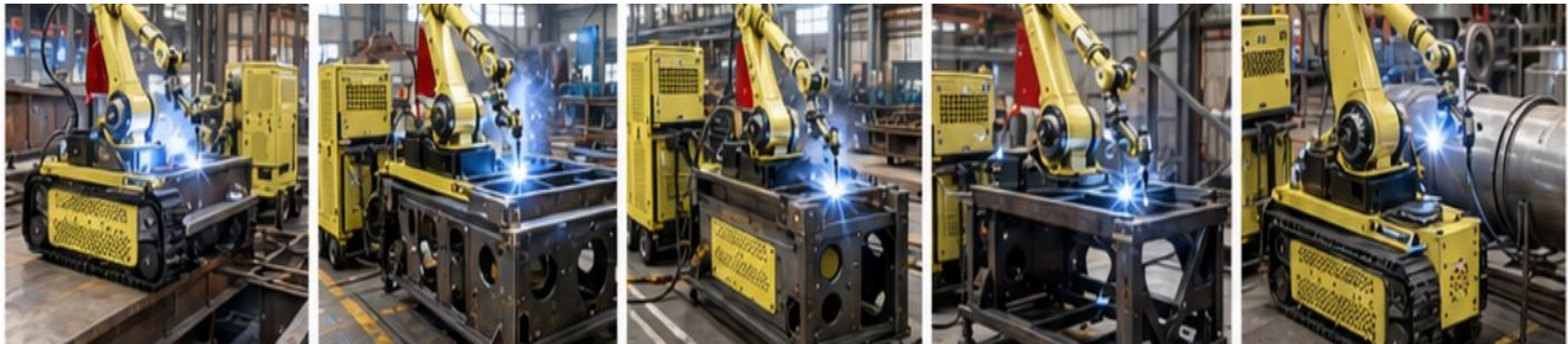
- 01 **Flexible Deployment**

Suitable for multi-workstation switching and compact welding tasks.
- 02 **Higher Efficiency, Lower Cost**

Reduces manual dependence and improves welding productivity.
- 03 **More Stable Welding**

Precise positioning helps improve weld consistency.

APPLICATION SCENARIOS



- 1 Medium steel structures
- 2 Box welding
- 3 Equipment brackets
- 4 Machine frames
- 5 Flexible welding stations

Zturnbuilder Leopard

Autonomous All-Scenario Large-Workpiece Welding Robot

High-mobility intelligent welding solution for large-workpiece welding applications.



PRODUCT HIGHLIGHTS

- **Autonomous Mobile Operation**
Flexible movement for complex work areas

● **Large-Workpiece Welding**
Designed for large structures and components

● **Travel Range**
19 km
- **All-Scenario Adaptability**
Indoor / outdoor deployment

● **Repeat Positioning Accuracy**
±0.03 mm

● **Multi-Position Welding**
Horizontal, flat, vertical and overhead

CORE SPECIFICATIONS

Product	Autonomous all-scenario large-workpiece welding robot (Leopard)
Model	WMM-10iD/8LHF500
Net Weight	1270 kg
Dimensions	2054 × 1385 × 1653 mm
Battery	48 V / 140 Ah lithium iron phosphate
Battery Qty.	1
Max. Safe Travel Speed	3 km/h
Travel Range	19 km
Max. Horizontal Welding Width	LT650-H4012 mm
Max. Vertical Welding Height	LT915-V3270 mm
System Power	26.8 kW
Repeat Positioning Accuracy	±0.03 mm
Welding Process	Gas Metal Arc Welding (GMAW)
Welding Positions	Horizontal, flat, vertical, overhead
Welding Wire	Ø0.8-Ø1.6 mm

APPLICATION VALUE

- 01 **Higher Efficiency, Lower Cost**
Automated welding reduces labor reliance, increases output and lowers cost.

02 **Complex Workstation Coverage**
High mobility and flexible posture cover more industrial scenarios.

03 **Improved Weld Consistency**
Precise positioning and stable process support reliable weld quality.

APPLICATION SCENARIOS



1 Steel structure plants



2 Ship / offshore components



3 Bridges & box girders



4 Construction machinery



5 Large tanks / pressure vessels

Zturnbuilder Goose

Autonomous All-Scenario Large-Workpiece Welding Robot

High-coverage intelligent welding solution for ultra-large workpiece applications.



PRODUCT HIGHLIGHTS

- High-Speed Mobile Operation

Max. safe travel speed 10 km/h
- Wide Welding Coverage

Max. horizontal range LT650-H3800 mm
- Large-Workpiece Adaptability

For bridges, steel structures and vessels
- Repeat Positioning Accuracy

±0.03 mm
- Travel Range

15-20 km (winter) / 20-30 km (summer)
- Multi-Position Welding

Horizontal, flat, vertical and overhead

CORE SPECIFICATIONS

Product	Autonomous all-scenario large-workpiece welding robot (Goose)
Model	WMM-10iD/8LHH500
Net Weight	1780 kg
Dimensions	2830 × 1605 × 1550 mm
Min. Turning Radius	4800 mm
Battery	48 V / 70 Ah lithium iron phosphate
Battery Qty.	1
Max. Safe Travel Speed	10 km/h
Travel Range	15-20 km (winter) / 20-30 km (summer)
Max. Horizontal Welding Width	LT650-H3800 mm
Max. Vertical Welding Height	LT915-V3725 mm
System Power	26.8 kW
Cooling Circulation Pump	120 W
Repeat Positioning Accuracy	±0.03 mm
Welding Process	Gas Metal Arc Welding (GMAW)
Welding Positions	Horizontal, flat, vertical, overhead
Welding Wire	Ø0.8-Ø1.6 mm

APPLICATION VALUE

- 01

High-Efficiency Transfer

Faster movement between welding locations improves site productivity.
- 02

Large-Workpiece Coverage

Wide welding range reduces repeated repositioning.
- 03

Lower Labor Intensity

Replaces heavy manual welding in demanding applications.

APPLICATION SCENARIOS



1 Large steel structures



2 Bridge components



3 Heavy vessel welding



4 Large equipment manufacturing



5 Long-seam welding

Zturnbuilder Goose Pro

High-Altitude Welding Robot

Intelligent welding solution for elevated and high-altitude welding applications.



PRODUCT HIGHLIGHTS

- **High-Altitude Welding**
Max. vertical welding height 5000 mm

● **High-Position Coverage**
Suitable for elevated structures

● **Wide Working Envelope**
Max. horizontal welding width 2700 mm

● **Repeat Positioning Accuracy**
±0.03 mm

● **High-Capacity Battery**
48 V / 140 Ah

● **Multi-Position Welding**
Horizontal, flat, vertical and overhead

CORE SPECIFICATIONS

Product	High-altitude welding robot (Goose Pro)
Model	WMM-10iD/8LHG500
Net Weight	3880 kg
Dimensions	4200 × 1320 × 2360 mm
Battery	48 V / 140 Ah lithium iron phosphate
Battery Qty.	1
Max. Safe Travel Speed	2.5 km/h
Travel Range	2-3 km (winter) / 2-5 km (summer)
Max. Horizontal Welding Width	2700 mm
Max. Vertical Welding Height	5000 mm
System Power	26.4 kW
Repeat Positioning Accuracy	±0.03 mm
Welding Process	Gas Metal Arc Welding (GMAW)
Welding Positions	Horizontal, flat, vertical, overhead
Welding Wire	Ø0.8-Ø1.6 mm

APPLICATION VALUE

- 01 **Safer High-Level Work**
Reduces the risk of personnel working at height.

02 **Complex High-Position Coverage**
Adapts to columns, side walls and vessel structures.

03 **More Stable Welding**
Improves weld consistency in difficult high-position applications.

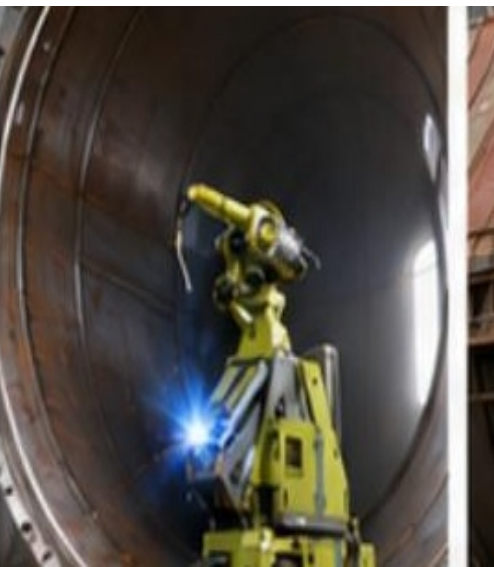
APPLICATION SCENARIOS



1 High-rise steel structures



2 Large column welding



3 High-position tank welding



4 Ship high-position components



5 Heavy equipment high-altitude welds

Zturnbuilder Eagle

Cantilever Welding Robot

High-coverage intelligent welding solution for wide welding workstations.



PRODUCT HIGHLIGHTS

- Wide Cantilever Coverage

Rotational working envelope up to 170°
- Vertical Welding Height

3200 mm
- Autonomous Mobile Operation

Flexible travel for complex sites
- Repeat Positioning Accuracy

±0.03 mm
- Travel Range

2-3 km (winter) / 3-5 km (summer)
- Multi-Position Welding

Suitable for varied welding operations

CORE SPECIFICATIONS

Product	Cantilever welding robot (Eagle)
Model	WM-M10iD/8LHY500
Equipment Net Weight	3360 kg
Body Dimensions	3647 × 1318 × 1796 mm
Battery	48 V / 140 Ah lithium iron phosphate
Battery Qty.	1
Max. Safe Travel Speed	4 km/h
Travel Range	2-3 km (winter) / 3-5 km (summer)
Horizontal Welding Range	Rotational ±170°
Vertical Welding Height	3200 mm
System Power	26.4 kW
Repeat Positioning Accuracy	±0.03 mm
Welding Process	Gas Metal Arc Welding (GMAW)
Welding Positions	Horizontal, flat, vertical, overhead
Welding Wire	Ø0.8-Ø1.6 mm

APPLICATION VALUE

- 01

Large Coverage Area

Cantilever structure provides a broader welding envelope.
- 02

Fewer Equipment Adjustments

Reduces repetitive machine relocation and auxiliary setup.
- 03

Improved Site Flexibility

Better suited to wide and complex structural welding.

APPLICATION SCENARIOS



1 Wide steel structures



2 Box side-wall welding



3 Ship plate assembly



4 Large equipment side welding



5 Heavy structural parts

Zturnbuilder Wolf

Autonomous All-Scenario Large-Workpiece Cutting Robot

Intelligent cutting solution for large plates and heavy structural components.



PRODUCT HIGHLIGHTS

- **Autonomous Mobile Cutting**
Flexible movement for large workpieces

● **Large Cutting Coverage**
Max. horizontal cutting width 4012 mm

● **Plasma Cutting**
Efficient cutting for heavy plate

● **Repeat Positioning Accuracy**
±0.03 mm

● **Max. Vertical Cutting Height**
2807 mm

● **System Power**
3.8 kW + 123 kVA

CORE SPECIFICATIONS

Product	Autonomous all-scenario large-workpiece cutting robot (Wolf)
Model	WMM-Q1-AT500
Net Weight	2870 kg
Dimensions	3022 × 1400 × 2030 mm
Min. Turning Radius	1650 mm
Battery	72 V / 314 Ah ternary lithium
Battery Qty.	1
Max. Safe Travel Speed	2.8 km/h
Travel Range	4.2 km
Max. Horizontal Cutting Width	4012 mm
Max. Vertical Cutting Height	2807 mm
System Power	3.8 kW + 123 kVA
Repeat Positioning Accuracy	±0.03 mm
Cutting Process	Plasma cutting
Robot Body	GP20HL
Cutting System	RLHY/GP20

APPLICATION VALUE

- 01 **Efficient Material Cutting**
Improves large-plate cutting productivity.

02 **Reduced Manual Operation**
Lowers dependence on heavy manual handling and movement.

03 **More Stable Cutting**
Better dimensional consistency for downstream processing.

APPLICATION SCENARIOS



1 Thick plate blanking



2 Bridge plate cutting



3 Ship plate cutting



4 Construction machinery parts



5 Vessels & shaped components

Zturnbuilder Falcon

Autonomous All-Scenario Large-Workpiece Cutting Robot

High-mobility intelligent cutting solution for large structural components.



PRODUCT HIGHLIGHTS

- All-Scenario Mobile Cutting

Adaptable to complex industrial sites
- Ultra-Wide Cutting Coverage

Max. horizontal width LT650-H6415 mm
- Large Vertical Envelope

Max. height LT915-V3721 mm
- Plasma Cutting

High efficiency with reliable finish
- Travel Range

20 km
- Repeat Positioning Accuracy

0.07 mm

CORE SPECIFICATIONS

Product	Autonomous all-scenario large-workpiece cutting robot (Falcon)
Model	WHY-GP20HL/QG300
Net Weight	2680 kg
Dimensions	2580 × 1619 × 1950 mm
Min. Turning Radius	2900 mm
Battery	DC 48 V / 140 Ah ternary lithium
Battery Qty.	1
Max. Safe Travel Speed	2-3 km/h
Travel Range	20 km
Max. Horizontal Cutting Width	LT650-H6415 mm
Max. Vertical Cutting Height	LT915-V3721 mm
System Power	4.7 kVA
Repeat Positioning Accuracy	0.07 mm
Cutting Process	Plasma cutting
Robot Body	GP20HL
Cutting System	RLHY/GP20

APPLICATION VALUE

- 01 Large Cutting Coverage

Suitable for ultra-long and oversized structural components.
- 02 Improved Site Flexibility

Mobile design supports cutting across multiple work zones.
- 03 Stable Process Performance

Helps maintain cutting dimensions and efficiency.

APPLICATION SCENARIOS



1 Large bridge components



2 Steel structure cutting



3 Ship segmented plate cutting



4 Large box components

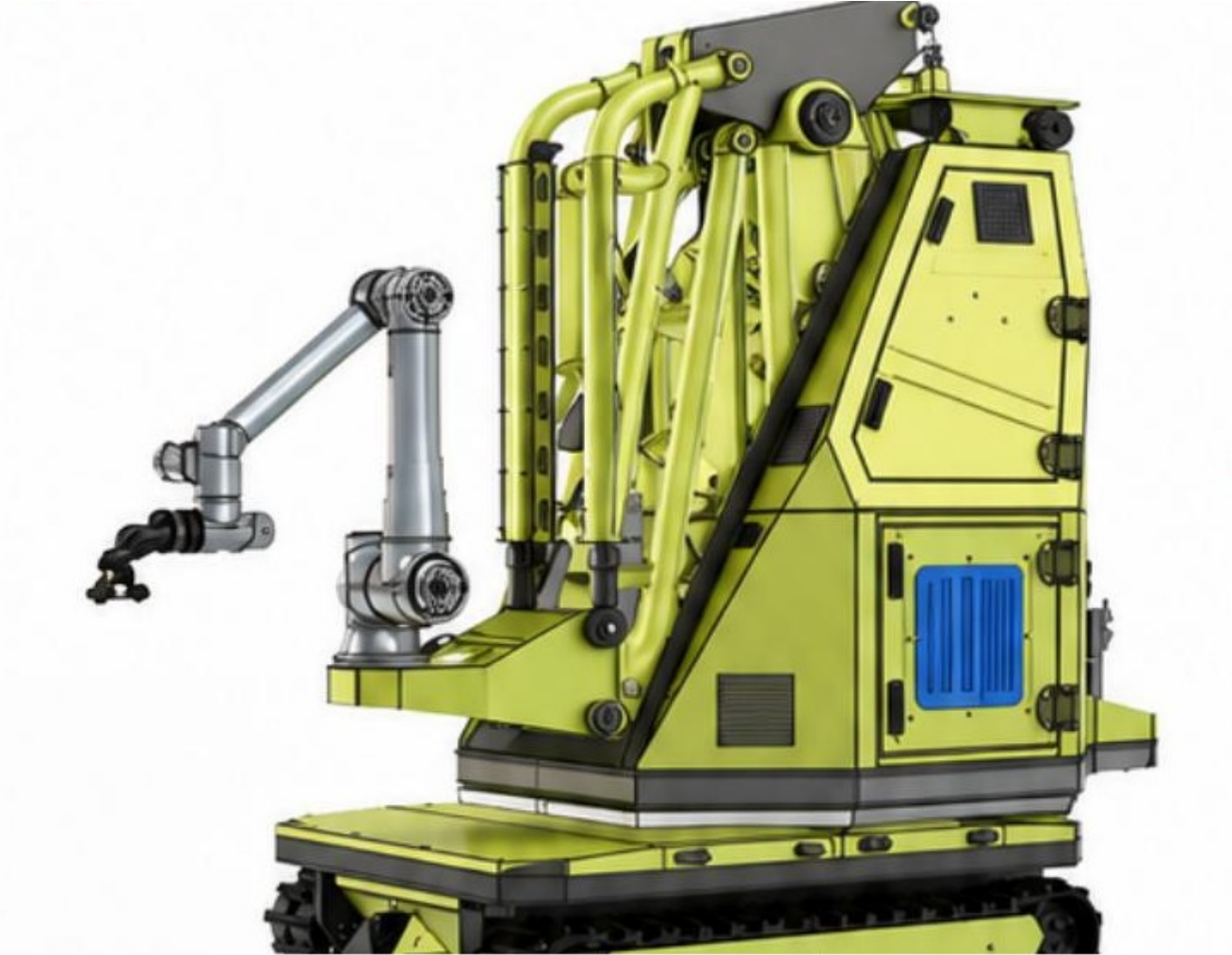


5 Irregular thick plate cutting

Zturnbuilder Rabbit

Autonomous All-Scenario Spray Coating Robot

Intelligent spray coating solution for large-workpiece coating applications.



PRODUCT HIGHLIGHTS

- Autonomous Spray Operation

Flexible mobile deployment
- Spray Radius

4000 mm coverage
- Spray Height

4000 mm for large components
- Repeat Positioning Accuracy

±0.03 mm
- Travel Range

19 km
- Typical Power

350 W

CORE SPECIFICATIONS

Product	Autonomous all-scenario spray coating robot (Rabbit)
Model	WMCR10-CC162
Net Weight	1340 kg
Dimensions	2450 × 1200 × 2426 mm
Battery	48 V / 140 Ah lithium iron phosphate
Battery Qty.	1
Max. Safe Travel Speed	3 km/h
Travel Range	19 km
Spray Radius	4000 mm
Spray Height	4000 mm
Ambient Temperature	0-45°C
Typical Power	350 W
Repeat Positioning Accuracy	±0.03 mm
Operating Altitude	≤1000 m
Spray Gun Model	WEINAR WN-31

APPLICATION VALUE

- 01

More Uniform Spraying
Improves coating consistency and surface finish.
- 02

Lower High-Altitude Work Risk
Reduces manual spraying at height and in confined areas.
- 03

Higher Efficiency, Lower Cost
Suitable for continuous coating of large workpieces.

APPLICATION SCENARIOS



1 Large tank coating



2 Construction machinery spraying



3 Steel structure surface treatment



4 Hull section coating



5 Large equipment coating

Zturnbuilder Industrial Charging Unit

Mobile Energy Storage & On-Site Power Supply Solution

Flexible power support for robots, AGVs and industrial field operations.



PRODUCT HIGHLIGHTS

- Mobile Power Supply

Trailer-style design for flexible deployment
- Battery Capacity

30 kWh, expandable
- Dual-Voltage Output

AC 380 V / AC 220 V
- Max. Output Power

380 V: 79 kW
- On-Site Auxiliary Power

Supports robots, AGVs and forklifts
- Reduced Downtime

Improves continuity of field operations

CORE SPECIFICATIONS

Product	Zturnbuilder Industrial Charging Unit
Net Weight	900 kg
Dimensions	1300 × 810 × 960 mm (towbar height 1250 mm)
Chassis Size	2800 × 1230 mm
Input Voltage	AC 380 V / AC 220 V
Battery Capacity	30 kWh (expandable)
Max. Output Power	380 V: 79 kW / 220 V: 5 kW

APPLICATION VALUE

- 01

Flexible Energy Replenishment

Meets mobile power needs across different work zones.
- 02

Reduced Downtime

Rapidly supports robots and AGVs to maintain productivity.
- 03

Improved Support Capability

Suitable for emergency and mobile industrial power supply.

APPLICATION SCENARIOS



1 Robot energy replenishment



2 AGV power supply



3 Temporary factory power



4 Outdoor construction power



5 Emergency mobile power