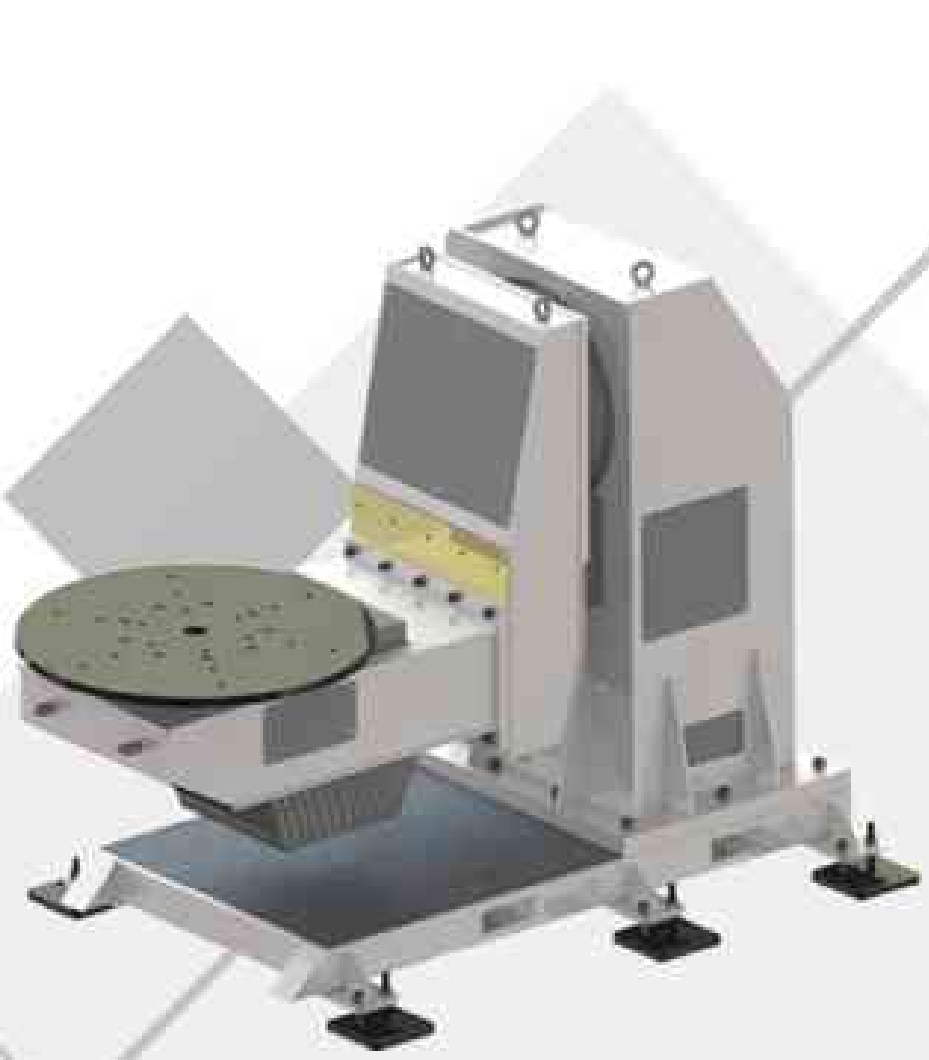


Plug, *play*, and weld.

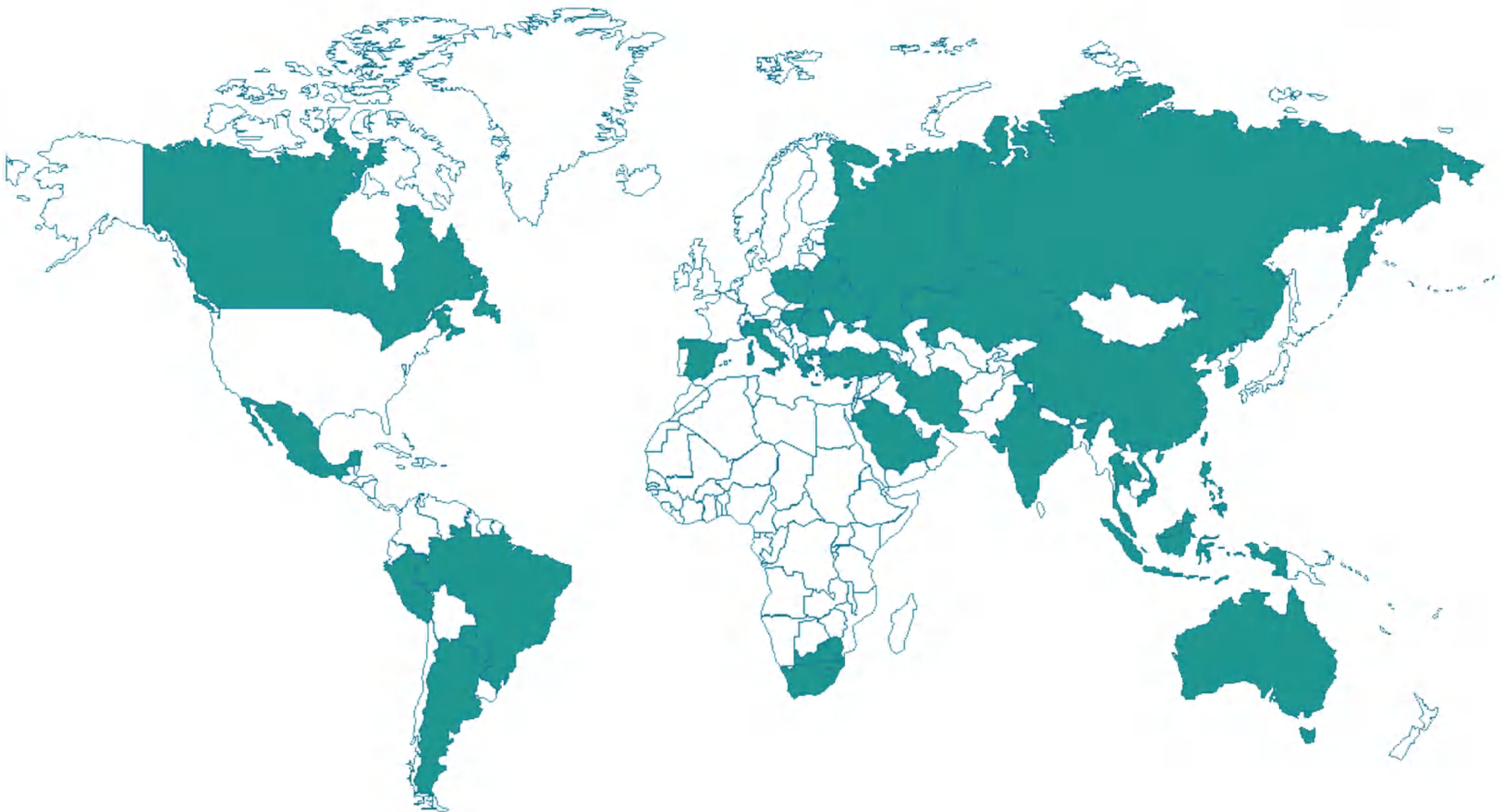


Mission:

Supply the right robotic welding packages and solutions for small & medium-size enterprise worldwide.

Vision:

Welding robot of effective utility and affordability for SME.



Strong R&D Capability

- Core team of highly-educated scientists graduating from top universities;
- Experts in control algorithm with over 15 years experience of R&D;
- Hand-on experience in development of motion-control technology, solutions, and industrial robots.

Deep Insights of Customer Demands

- 20+ years' experience of expertise in field business with deep understanding of welding SMEs' pain-points;
- Successful experience in business management for 2 public companies manufacturing welding equipment;
- Knowledge and know-how to support both channel partners and end-customers from different countries, for both commercial and technical tasks.



RobotMeta Controller - RMC 201		
Contorller's Hardware	4-core processor	
	RAM : 2GB	
	Flash disk for mass storage	
	USB memory connector	
	EtherCAT bus	
Operational System	Senou Lite	
Safety	Emergency stop and servo braking	
	Guardrail switch	
	Anti-collision for welding torches	
Programming	Teaching	
Operational Mode	Teach / Play / Remote control	
Error Detection	Error detection for emergency stop, servo, torch collision, arc start interruption, movement path, over-speed, etc.	
Motion Capabilities	Point-to-point (joint motion), straight linee,circular	
Programming	Movement / Logic / Applicationins & Process / Arithmetic	
External Axis	Available upon request	
Communication (Master Cotnrol Unit)	EtherCAT :	3 in total; 1 available for external devices
	CAN :	1 reserved
	Digital input	8 in total, 4 available for external devices
	Digital output	12 in total, 6 available for external devices
	Analog output	2 (0-10V), occupied by welding power source
Application	MIG/MAG welding	Built-in with MIG/MAG power source
		Ending arc / Crater arc
		Individual welding parameter for each path
		Seam tracking thru welding arc (external sensor requested)
	Laser welding	Standard
Enviroment	Ambient	0-45°C
	Relative humidity :	Max. 95%
	Protection level	IP 31
Electrical	Input power	1) RM 1450/6 HW: AC 1PH 220V 2) RM 2000/6 HW: Standard: AC 3P 380V; CE / UKCA / RCM Version: AC 3P 400V; Malaysia: AC 3PH 415V; India: AC 3PH 440V.
Physical	Size (W / D / H)	550 mm / 430 mm / 710 mm
	Weigth	27 kg

FastPendant

Robotic MIG/MAG welding



Easy and fast compatibility





RobotMeta Pro Controller - RMC 203		
Contorller's Hardware	4-core processer	
	RAM : 2GB	
	Flash disk for mass storage	
	USB memory connector	
	EtherCAT bus	
Operational System	Senou Lite	
Safety	Emergency stop and servo braking	
	Guardrail switch	
	Anti-collision for welding torches	
Programming	Teaching	
Operational Mode	Teach / Play / Remote control	
Error Detection	Error detection for emergency stop, servo, torch collision, arc start interruption, movement path, over-speed, etc.	
Motion Capabilities	Point-to-point (joint motion), straight linee,circular	
Programming	Movement / Logic / Applicationins & Process / Arithmetic	
External Axis	Available upon request	
Communication (Master Cotnrol Unit)	EtherCAT :	3 in total; 1 available for external devices
	CAN :	1 reserved
	Digital input	8 in total, 4 available for external devices
	Digital output	12 in total, 6 available for external devices
	Analog output	2 (0-10V), occupied by welding power source
Extra I/O Unit	Digital Input:	16 available for external devices
	Digital Output:	16 available for external devices
	Communication for Robotic Laser Welding	Available upon request
Application	MIG/MAG welding	Built-in with MIG/MAG power source
		Ending arc / Crater arc
		Individual welding parameter for each path
		Seam tracking thru welding arc (external sensor requested)
Enviroment	Laser welding	Standard
	Ambient	0-45°C
	Relative humidity :	Max. 95%
Electrical	Protection level	IP 31
	Input power	Standard version: AC 3P 380V; CE / UKCA / RCM Version: AC 3P 400V; Malaysia version: AC 3PH 415V; India version: AC 3PH 440V.
	Size (W / D / H)	550 mm / 542 mm / 710mm
Physical	Weigth	44.5 kg

FastPendant Pro

Robotic MIG/MAG welding



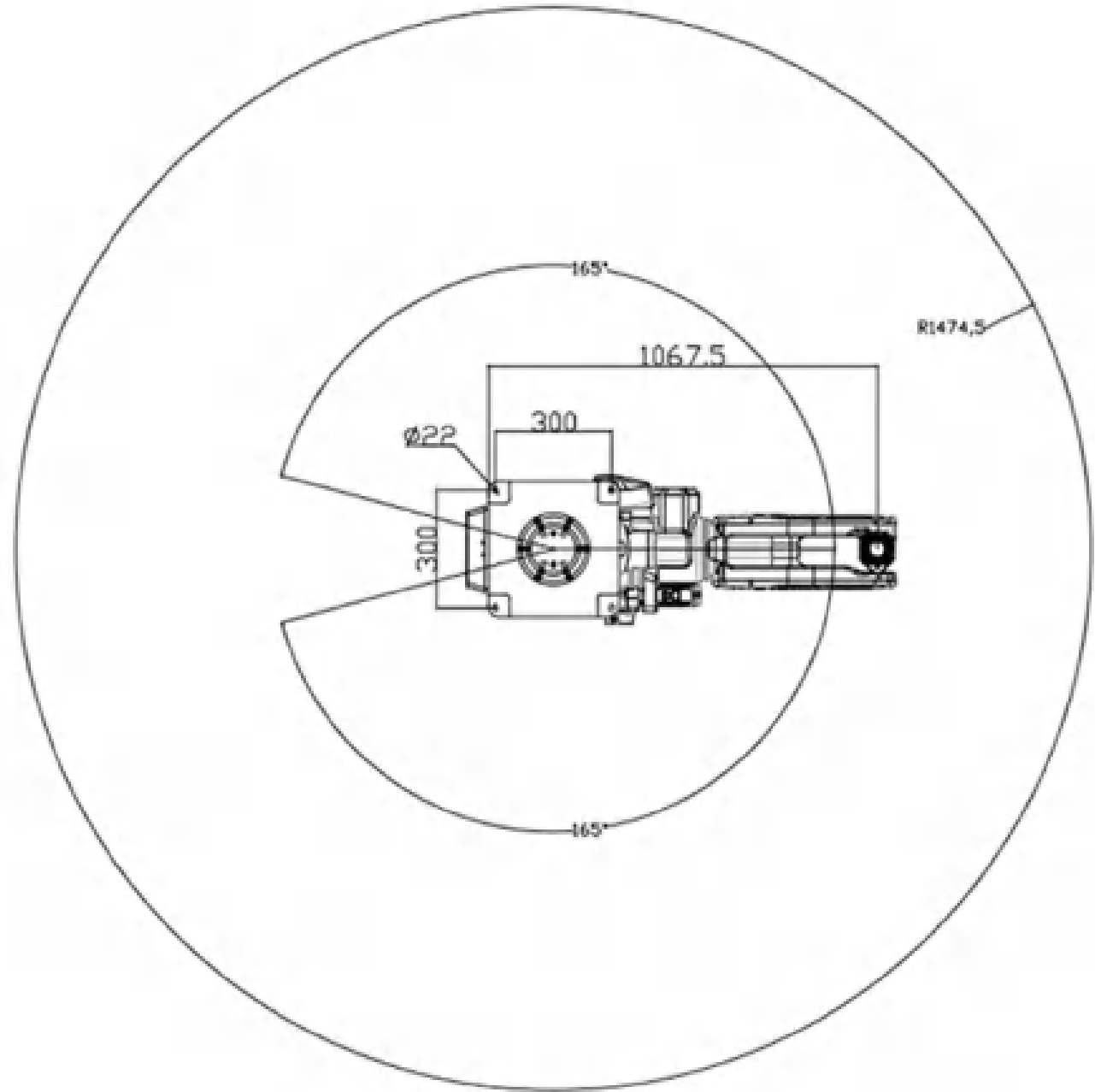
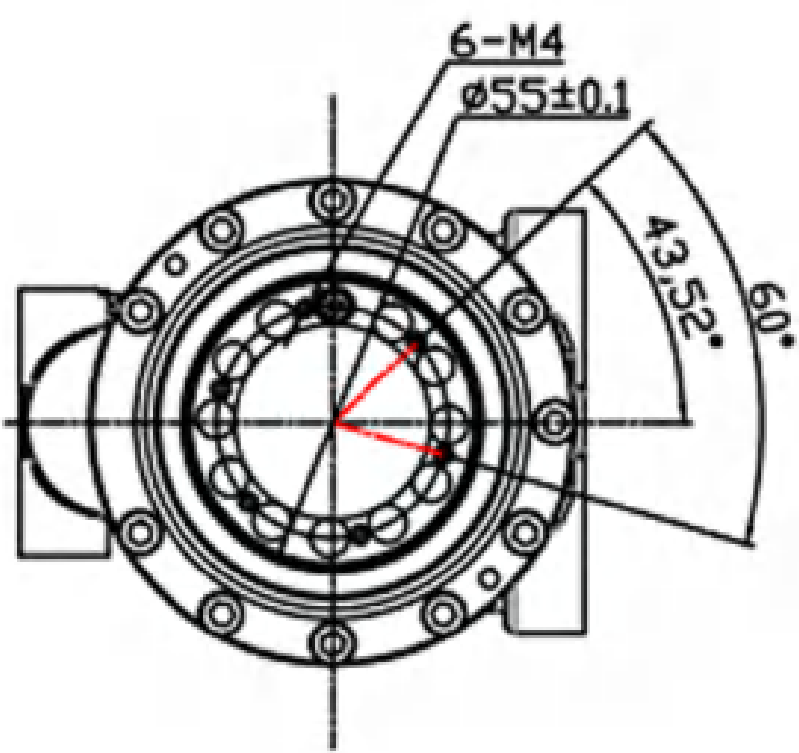
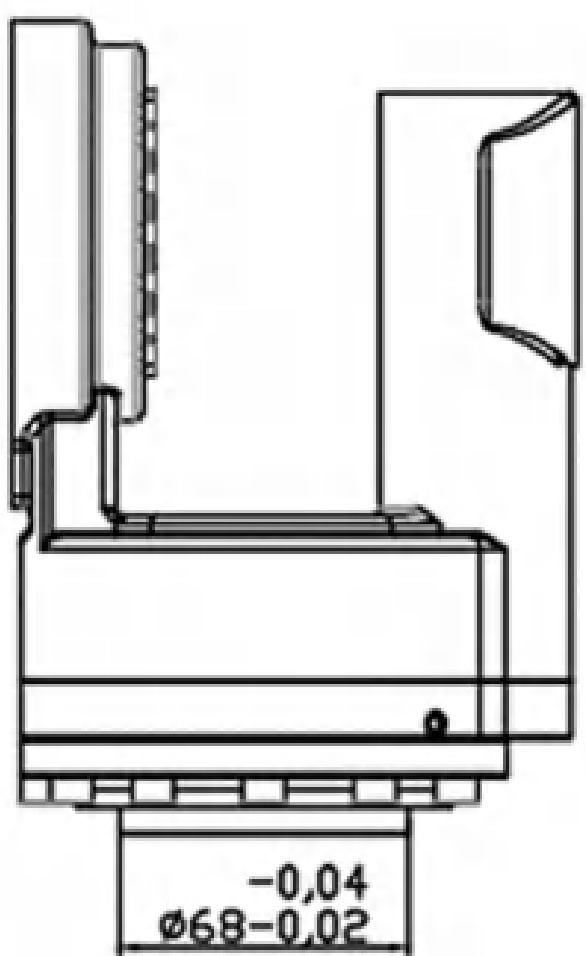
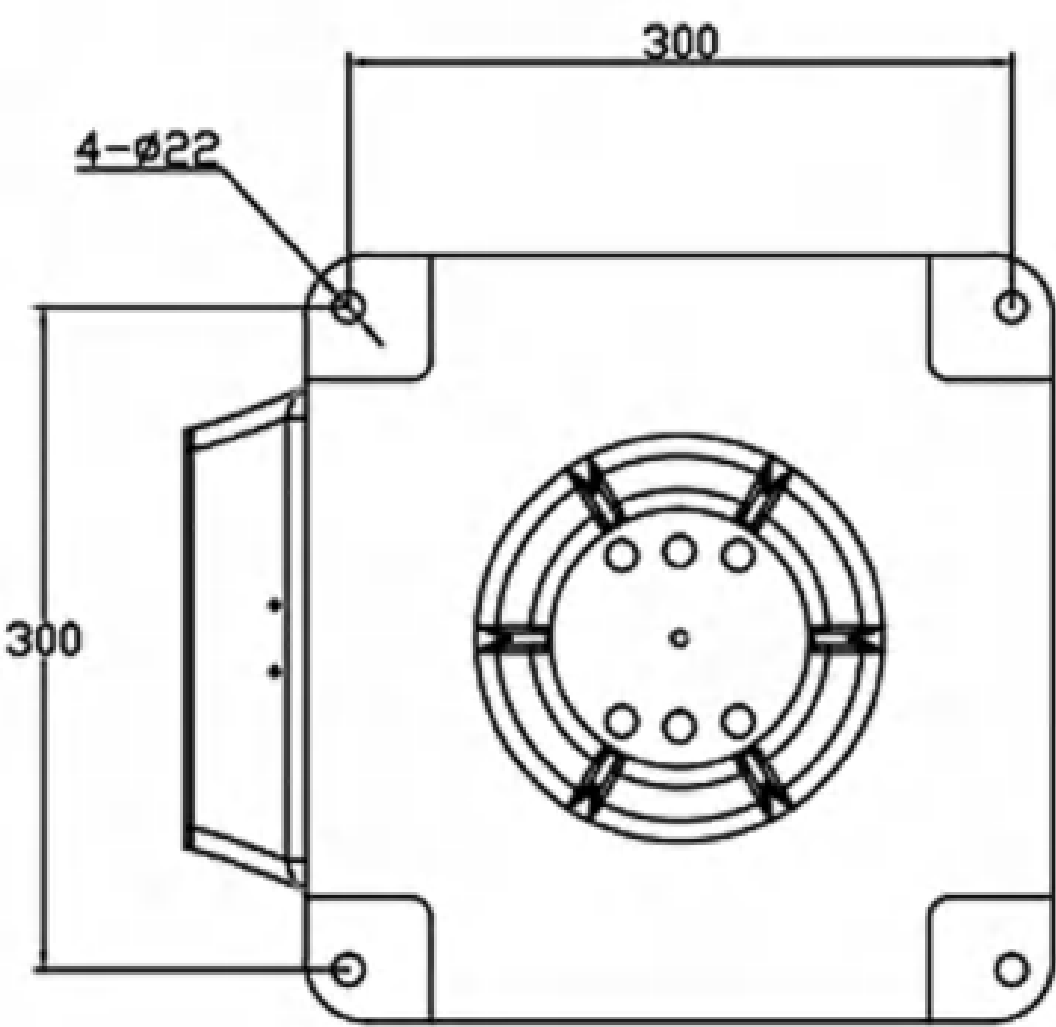
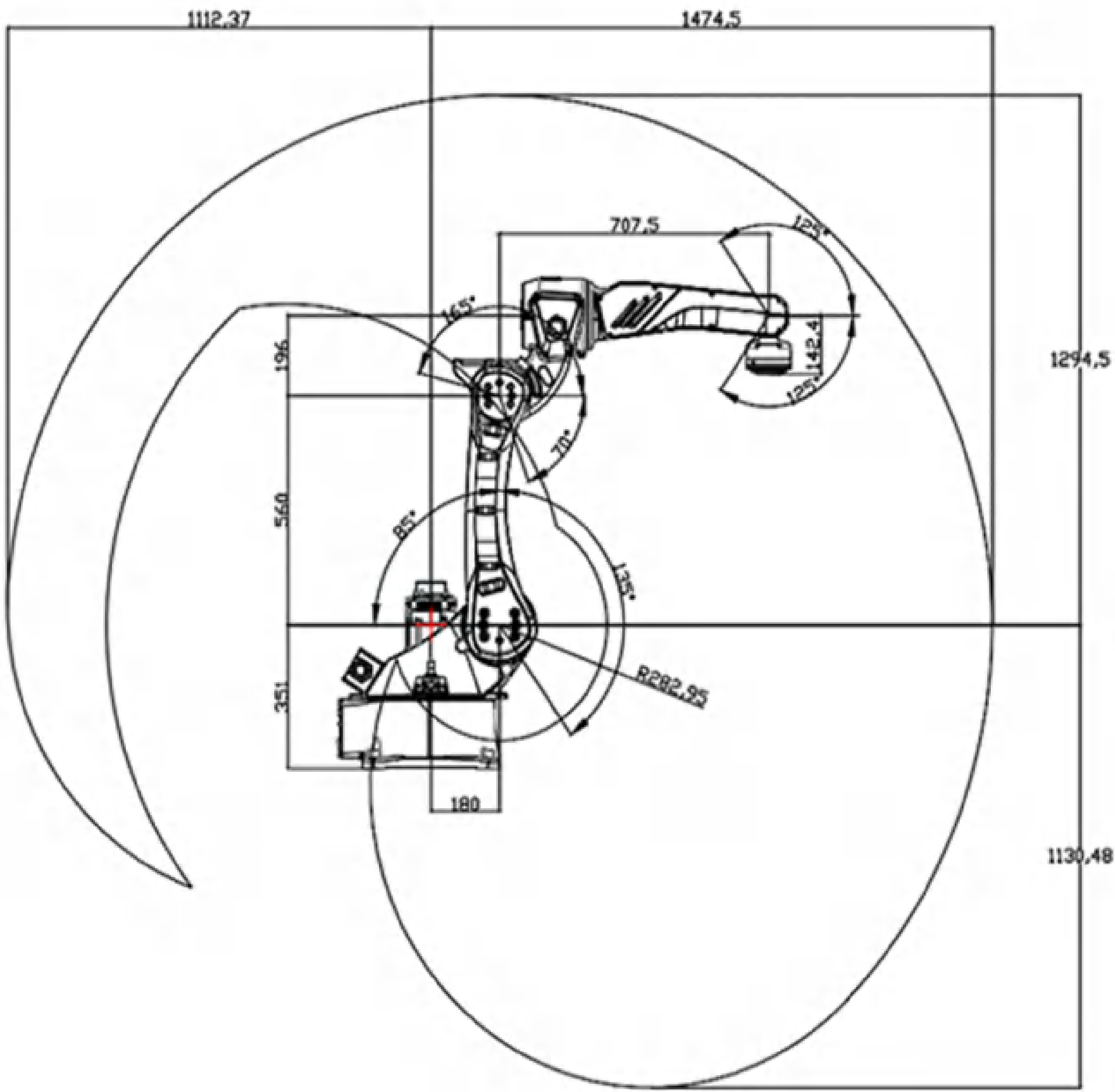
Robotic laser welding



Specification	
Number of axis	6(J 1, J 2, J 3, J 4, J 5, J 6)
Working range	1474mm
Rated payload	10 kg
Repeatability	±0.05mm
Mounting position	Floor, ceiling
Protection	
Protection rating	IP54
Cotroller	
Controller	RMC 201/RMC 203
Control system	Senou Lite
Physical	
Weight	172 kg
Environment	
Temperature during operation	0-45°
Humidity	20-80%(no condensation)
Noise level	< 85 db



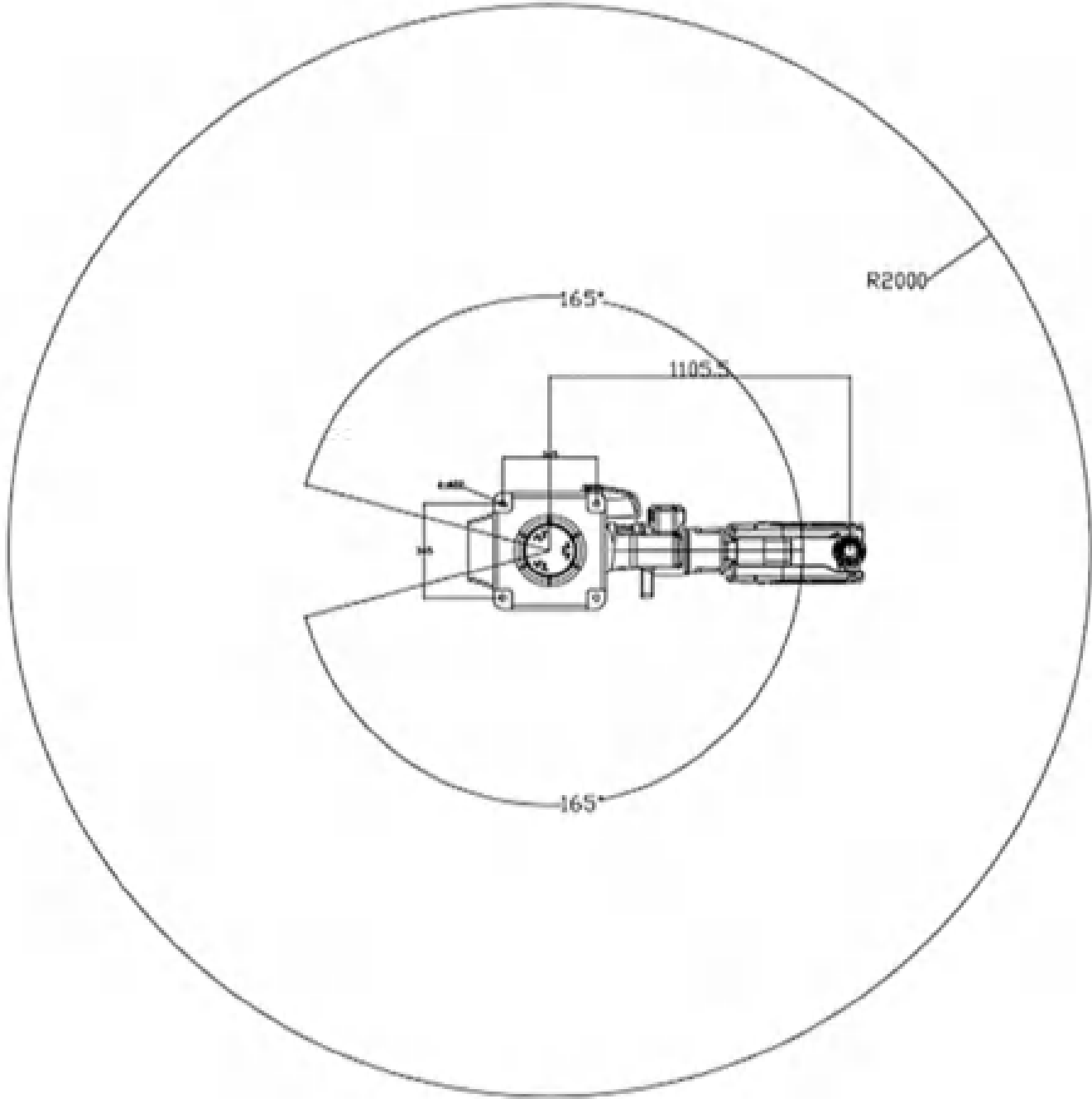
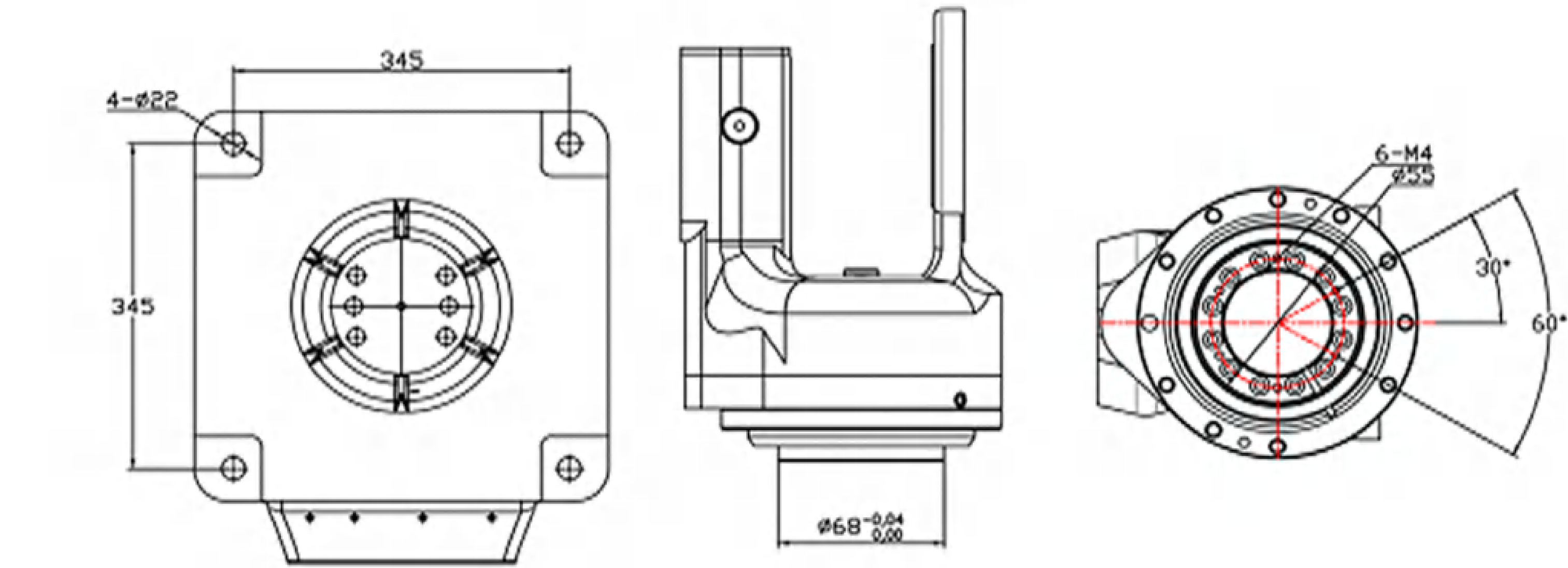
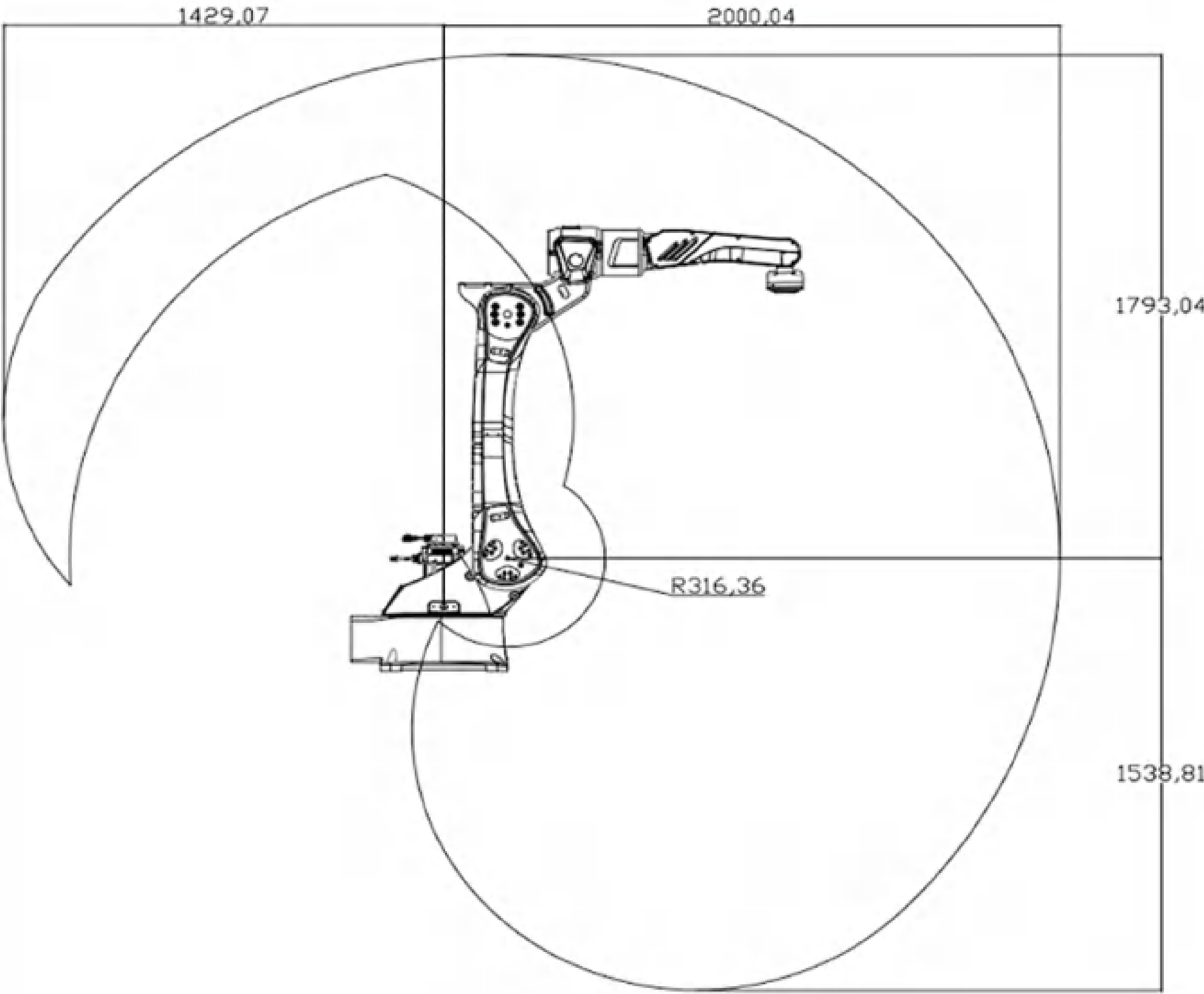
Axis	Working range	Max. speed
J 1	-173°/+173°	240°/S
J 2	-110°/+75°	225°/S
J 3	-75°/+85°	247°/S
J 4	-175°/+175°	285°/S
J 5	-128°/+128°	278°/S
J 6	-360°/+360°	1590°/S



Specification	
Number of axis	6(J 1, J 2, J 3, J 4, J 5, J 6)
Working range	2000mm
Rated payload	10 kg
Repeatability	±0.05mm
Mounting position	Floor, ceiling
Protection	
Protection rating	IP54
Cotroller	
Controller	RMC 203
Control system	Senou Lite
Physical	
Weight	210 kg
Environment	
Temperature during operation	0-45°
Humidity	20-80%(no condensation)
Noise level	< 85 db



Axis	Working range	Max. speed
J 1	-170°/+170°	150°/S
J 2	-95°/+80°	120°/S
J 3	-70°/+90°	120°/S
J 4	-170°/+170°	280°/S
J 5	-120°/+120°	280°/S
J 6	-360°/+360°	1280°/S



Features:

- 1. Synergic control MIG/MAG process as standard for 0.8/1.0/1.2/1.6 mm solid wire (carbon steel).
- 2. Based on full-digit system controlling precisely the droplet transfer processs, ensuring continuously stable welding quality.
- 3. MIG/MAG welding power source based on inverter technology. Advanced in energy saving and high in reliability.
- 4. Full digital-control wire-feeding system of high precision and stability, even under changes of external conditions.

Specification		
Model	MetaMIG 350 SYN	MetaMIG 500 SYN
Control Mode	Full Digital-control	
Welding Process for Robotic	GMAW (CO ₂ or mixed-gas); FCAW	
Synergic Control	Available as standard	
Pulse MIG/MAG	N/A	
Rated Input Voltage	AC 3PH 380V +/- 15%	
Input Frequency	50/60 HZ	
Rated Input Power	13.9 KVA	24.7 KVA
Power Factor	0.93	
Efficiency	85%	
Rated OCV	75 V	80 V
Rated Output Current	40 ~ 350 A	40 ~ 500 A
Rated Output Voltage	16 ~ 31.5 V	16 ~ 39 V
Wire-feeding speed	1.5 ~ 20 m/min	
Duty Cycle	60%	60%
Wire Diameter	0.8 / 1.0 / 1.2 mm	0.8 / 1.0 / 1.2 / 1.6 mm
Welding Operational Mode	-	-
Electromagnetic Compatibility	EN 60974-10	EN 60974-10
Ingress Protection	IP 21S	IP 21S
Insulation Grade	F	F
Working Temperature	-10°C ~ +40°C	
Dimension	688 (L) * 294 (W) * 547 (H) mm	
Gross Weight	35.7 KG	



Features:

- 1. Pulse MIG/MAG and synergic MIG/MAG process as standard for 0.8/1.0/1.2/1.6 mm solid wire (carbon steel).
- 2. Based on full-digit system controlling precisely the droplet transfer processs, ensuring continuously stable welding quality.
- 3. MIG/MAG welding power source based on inverter technology. Advanced in energy saving and high in reliability.
- 4. Full digital-control wire-feeding system of high precision and stability, even under changes of external conditions.

Specification		
Model	MetaMIG 350 Pulse	MetaMIG 500 Pulse
Control Mode	Full Digital-control	
Welding Process for Robotic	GMAW (CO ₂ or mixed-gas); FCAW	
Synergic Control	Available as standard	
Pulse MIG/MAG	Available as standard	
Rated Input Voltage	AC 3PH 380V +/- 15%	
Input Frequency	50/60 HZ	
Rated Input Power	13.9 KVA	24.7 KVA
Power Factor	0.93	
Efficiency	85%	
Rated OCV	75 V	80 V
Rated Output Current	40 ~ 350 A	40 ~ 500 A
Rated Output Voltage	16 ~ 31.5 V	16 ~ 39 V
Wire-feeding speed	1.5 ~ 20 m/min	
Duty Cycle	60%	60%
Wire Diameter	0.8 / 1.0 / 1.2 mm	0.8 / 1.0 / 1.2 / 1.6 mm
Welding Operational Mode	-	-
Electromagnetic Compatibility	EN 60974-10	EN 60974-10
Ingress Protection	IP 21S	IP 21S
Insulation Grade	F	F
Working Temperature	-10°C ~ +40°C	
Dimension	688 (L) * 294 (W) * 547 (H) mm	
Gross Weight	35.7 KG	



Features:

1. Recommended Welding Machine for Welding Carbon Steel Material.

2. Three welding modes: ultra-low spatter MAG/CO₂ welding, fastspot welding and normal MAG / CO₂ welding.

3. Capable of welding 0.7-3mm carbon steel plate and galvanized steel sheet.

4. Heat input reduced by 10%-20%, making welding easy to control and deformation minor.

5. Spatter reduced by 60%, reaching ultra-low spatter.

6. Fully digitalized system, ensuring precise control of droplet transition, continuous and stable welding quality.

7. Fully digital & high-precision wire feeding control system.

8. Widely used in manufacturing of electric vehicles, ordinary furniture, school facilities, and other products of thin materials.
- 

Specification	
Model	MetaMIG 350 RL
Rated Input Voltage/Frequency (V/Hz)	AC 3PH 380V +/- 10% /50
Rated Input Capacity	14 KVA
Rated Input Current	21 A
Rated Output Voltage	31.5 V
Rated Load Duration	60 %
Output No-Load Voltage	96 V
Rated Output Current	60 ~ 350 A
Rated Output Voltage	17 ~ 31.5 V
Wire Diameter	0.8 / 1.0 / 1.2 mm
Wire Feed Method	Wire Push
Gas Flow	15 ~ 20 L/min
Welding Gun Cooling Method	Air-Cooled
Enclosure Level	IP 23
Insulation Level	H
Dimension	660 (L) * 320 (W) * 560 (H) mm
Gross Weight	55 KG



Robotic MIG/MAG torches



Specification			
Types	Water-cool	Gas-cool / Enclosed-type	
Model	RMT 500 W	RMT 500 GE	RMT 350 GE
Consumables	Euro	Asain /Euro	
Shock-sensor	Standard	Standard	Standard
Rated apmerage (MIG)	550 A	500 A	350 A
Rated apmerage (MAG)	500 A	400 A	300 A
Duty Cycle	60%	60%	60%
Wire Diameter	0.8/1.0/1.2/1.6	0.8/1.0/1.2/1.6	0.8/1.0/1.2
Torch Neck	Angle	35°	35°
		22° / 45°	22° / 45°
	Length	280 mm	250 mm
		180/250/350/500 mm	165/300/350/400 mm

Robotic Push-pull Torch & Torch Cleaner

1. Equipped with servo motor for smooth and precise wire-feeding of aluminium welding.
2. Capable of synchronizing with robotic wire-feeder.
3. High accessibility with compact size.
4. Convenience with Euro connector and removable torch head.
5. Compatible accessories and consumables with RMT 500W torch.

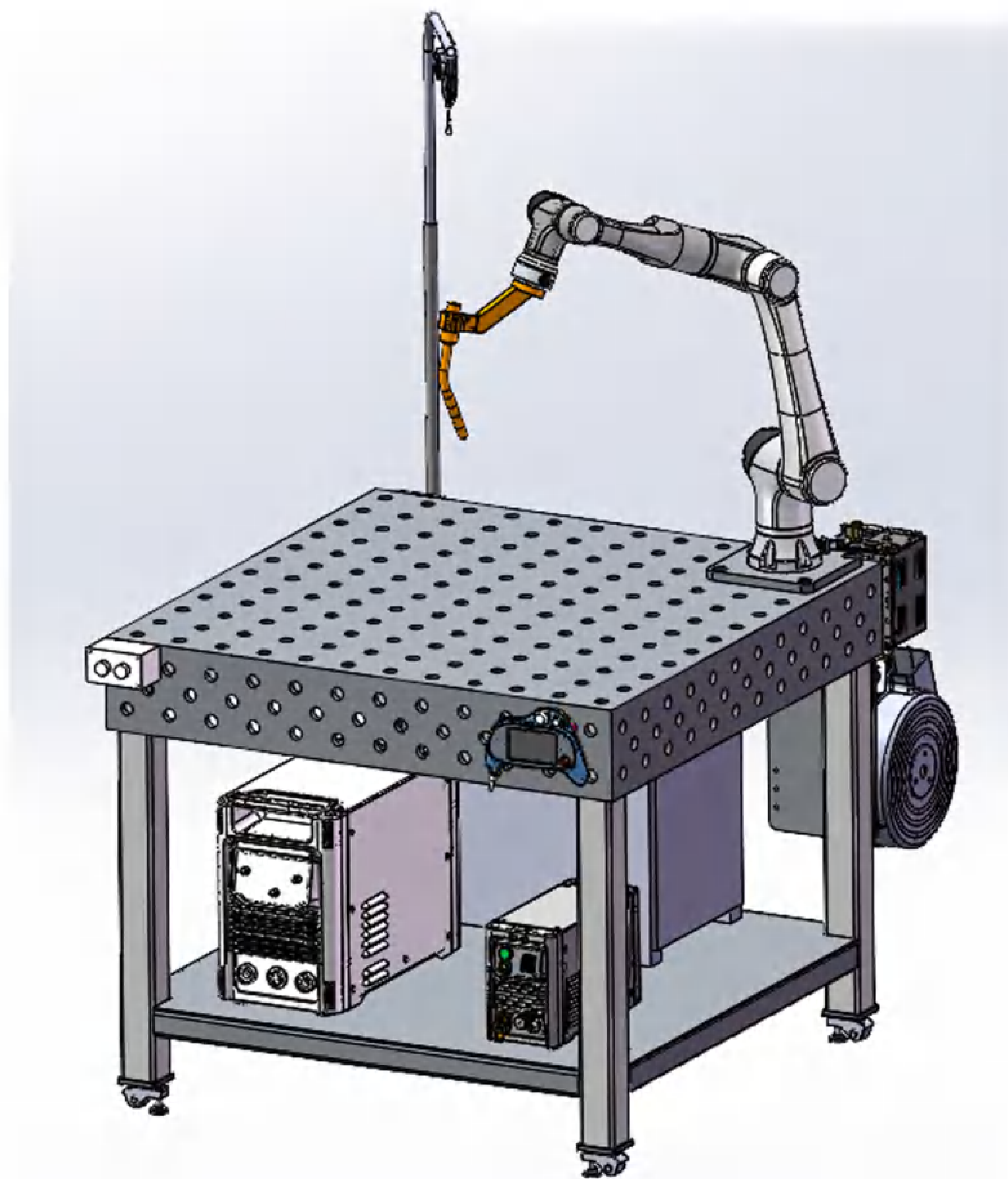
Specifiction	
Rating (MIG)	500A
Rating (MAG)	450A
Duty cycle	100%
Wire Diameter	0.8~1.6



Specifiction	
Compressed air supply outlet	G1/4"
Hose inside diameter	min.06mm
Normal pressure	6bar
Operation pressure	6-8bar
Control voltage	NPN (0V DC) PNP (24V DC)
Power demand	2.8w
Operation voltage	10-30V DC
Current consumption	Approx.4mA(24V)
Continuous current	Max.100mA
Pneumatic motor speed	Approx.650U/min
Air consumption	Approx.400L/min
Bottle capacity	0.5 Liter
Solid wire	Max.1.2mm
Cutting time	1 Sec
Cutting rate at 6 bar	

Ready-to-weld Cobot welder

1. Great combination of cobot's safety and flexibility advantages, and the easy-to-use robotic control system and mature functions for robotic welding.
2. Ready-to-weld package with cobot being mounted to welding table, and connected with MIG welding equipment.
3. Super friendly for manual welders to learn and use, with lowest possible skill requirements and learning curve for new operators.
4. Precise control of MIG torch to reach the desired welding points at optimum posture, with RobotMeta's mature control system and unique teach pendant for welding.
5. Flexibility and productivity, all-in-one package at mobility and optimizing usage of the workshop space.



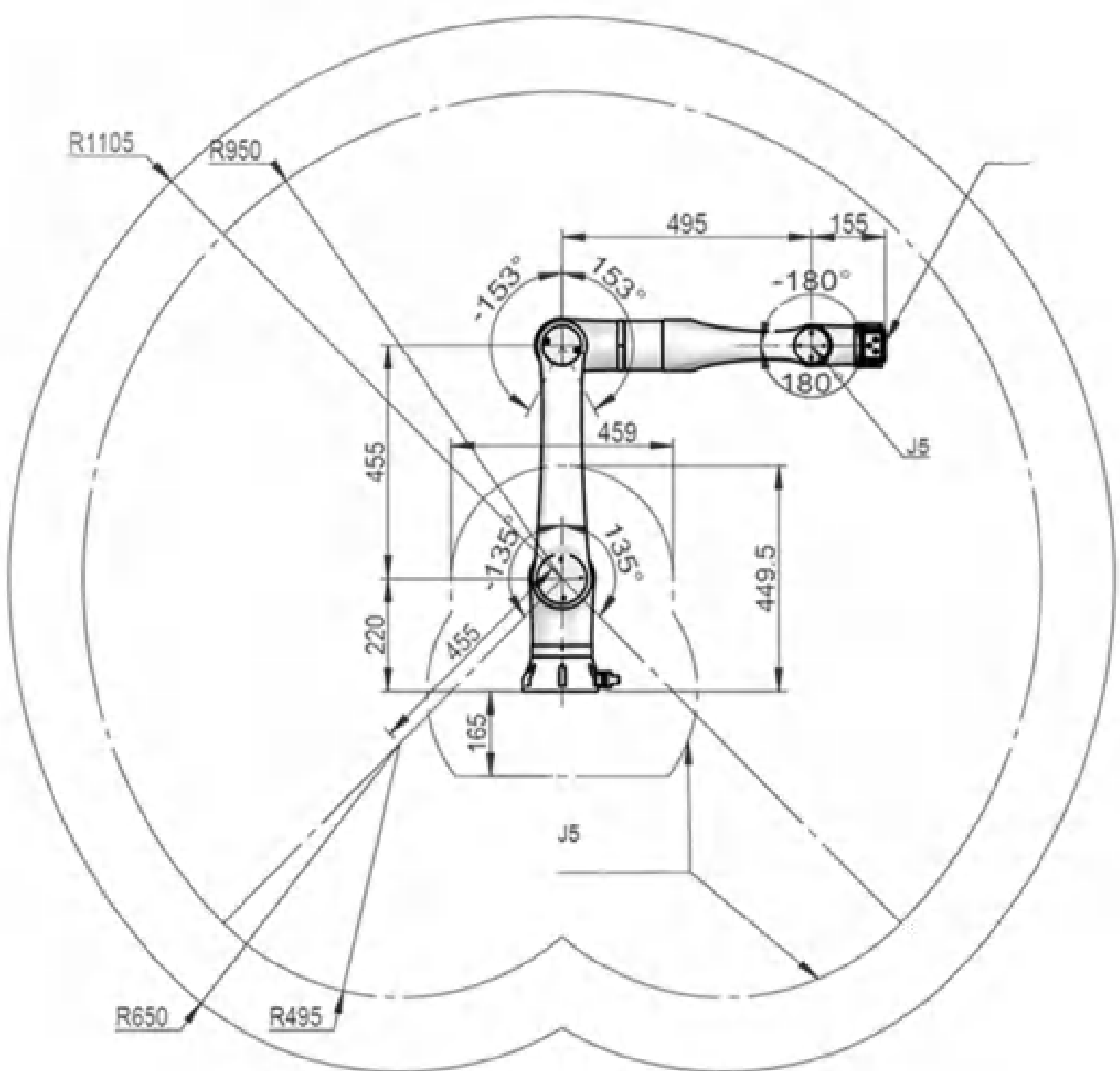
Specification		
Model	RM 1100/4 C	RM 1470/8 C
Number of axis	6	6
Working range	1100mm	1468mm
Rated payload	3.5 kg	8 kg
Repeatability	±0.02mm	±0.03mm
Mounting position	Floor, wall, ceiling	Floor, wall, ceiling
Protection		
Protection rating	IP54	IP54
Cotroller		
Controller	RMC 203	RMC 203
Control system	Senou Lite	Senou Lite
Electrial connections		
Supply voltage	220V	220V
Power consumption(average)	180 kwh	350 kwh
Physical		
Weight	26 kg	45 kg
Environment		
Temperature during operation	0-50°	0-50°
Humidity	20-80% (no condensation)	20-80% (no condensation)
Noise level	< 85 db	< 85 db

Axis	Working range		Max. speed	
Model	RM 1100/4 C	RM 1470/8 C	RM 1100/4 C	RM 1470/8 C
J 1	-360°/+360°	-360°/+360°	180°/S	100°/S
J 2	-360°/+360°	-360°/+360°	180°/S	100°/S
J 3	-360°/+360°	-360°/+360°	180°/S	150°/S
J 4	-360°/+360°	-360°/+360°	180°/S	150°/S
J 5	-360°/+360°	-360°/+360°	200°/S	180°/S
J 6	-360°/+360°	-360°/+360°	200°/S	180°/S

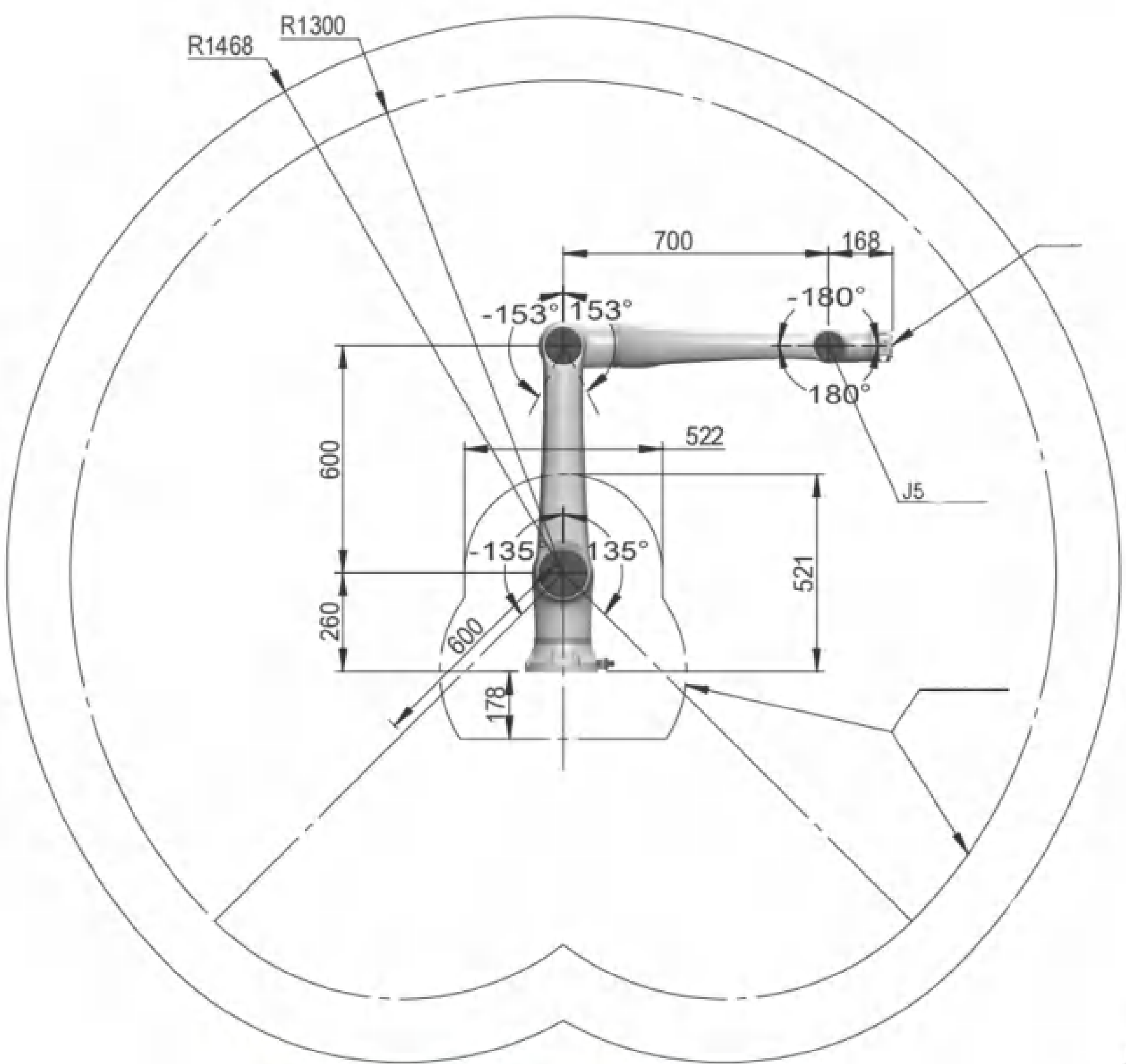
RM 1100/4 C



RM 1470/8 C



RM 1100/4 C

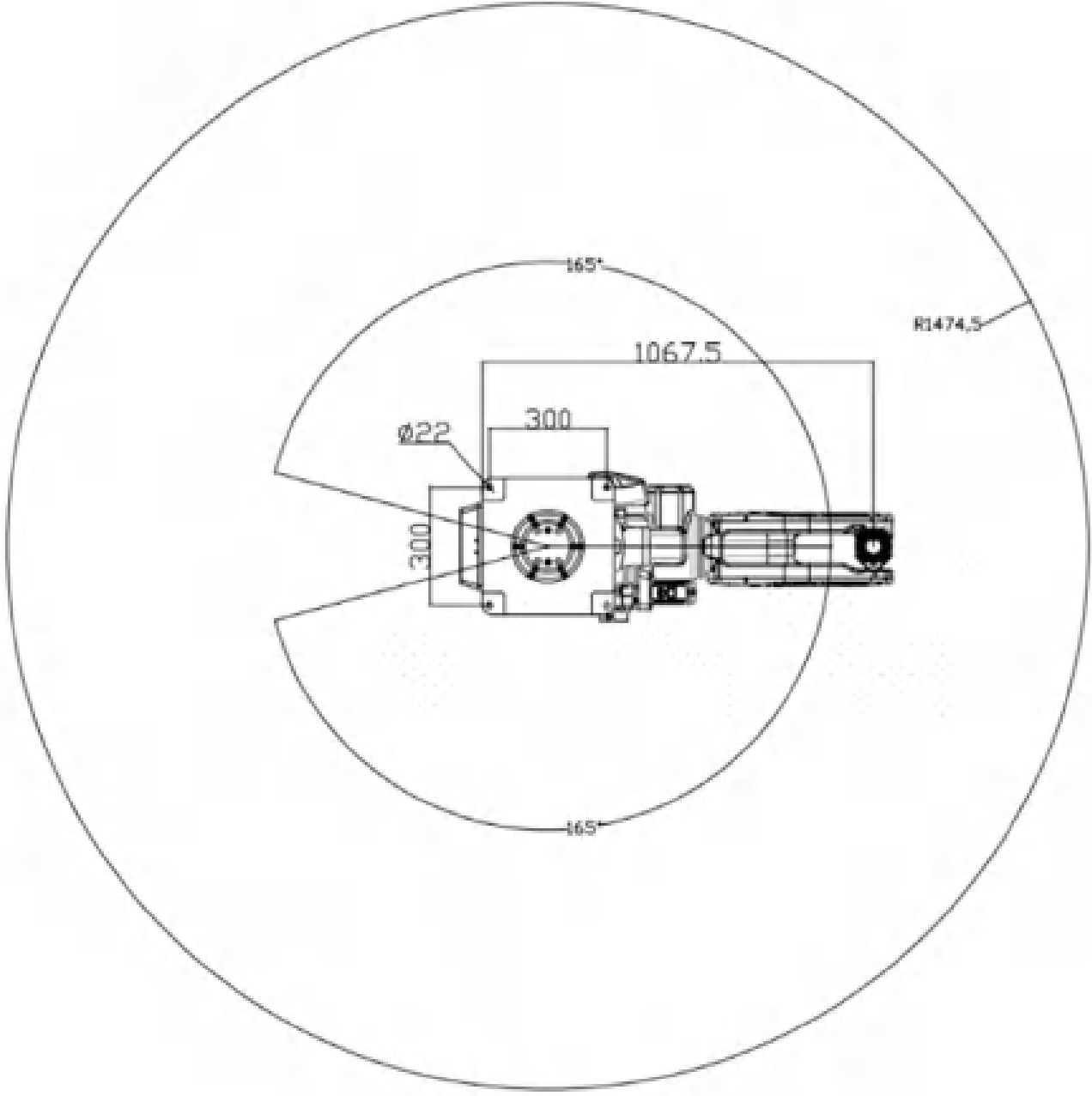
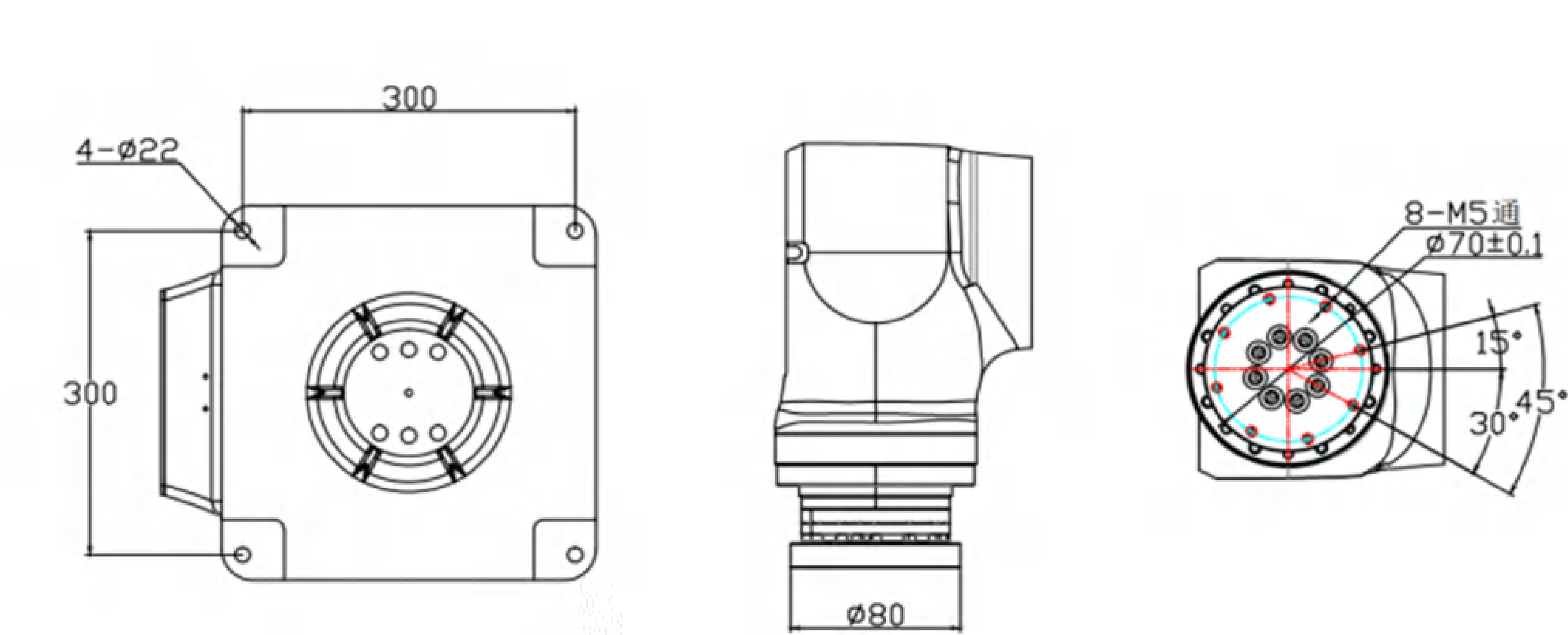
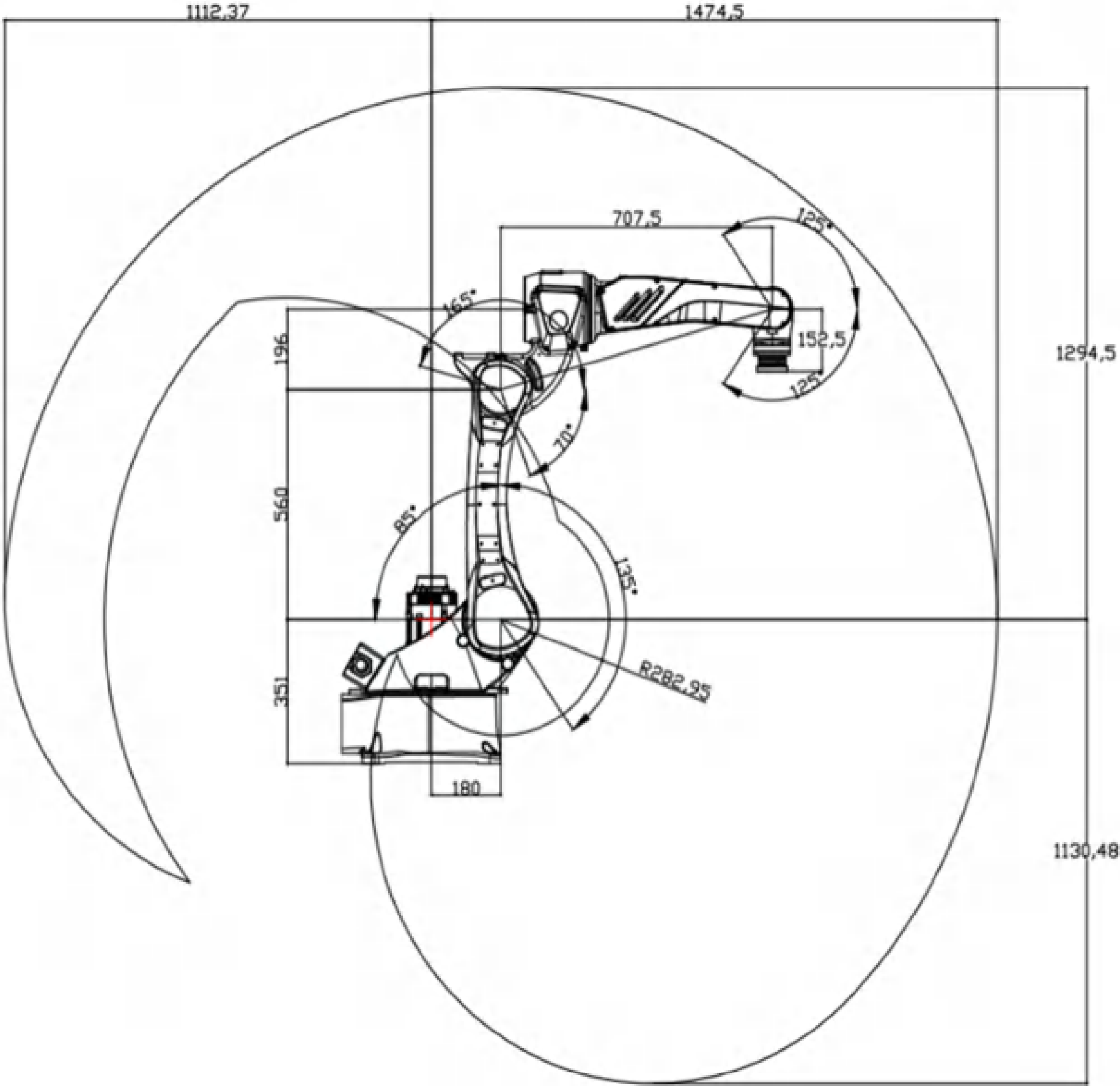


RM 1470/8 C

Specification	
Number of axis	6(J 1, J 2, J 3, J 4, J 5, J 6)
Working range	1475mm
Rated payload	12 kg
Repeatabilty	±0.05mm
Mounting position	Floor, ceiling
Protection	
Protection rating	IP54
Cotroller	
Controller	RMC 203
Control system	Senou
Physical	
Weight	172 kg
Environment	
Temperature during operation	0-45°
Humidity	20-80%(no condensation)
Noise level	< 85 db



Axis	Working range	Max. speed
J 1	-165°/+165°	248°/S
J 2	-135°/+85°	196°/S
J 3	-70°/+165°	213°/S
J 4	-170°/+170°	288°/S
J 5	-125°/+125°	288°/S
J 6	-360°/+360°	1280°/S



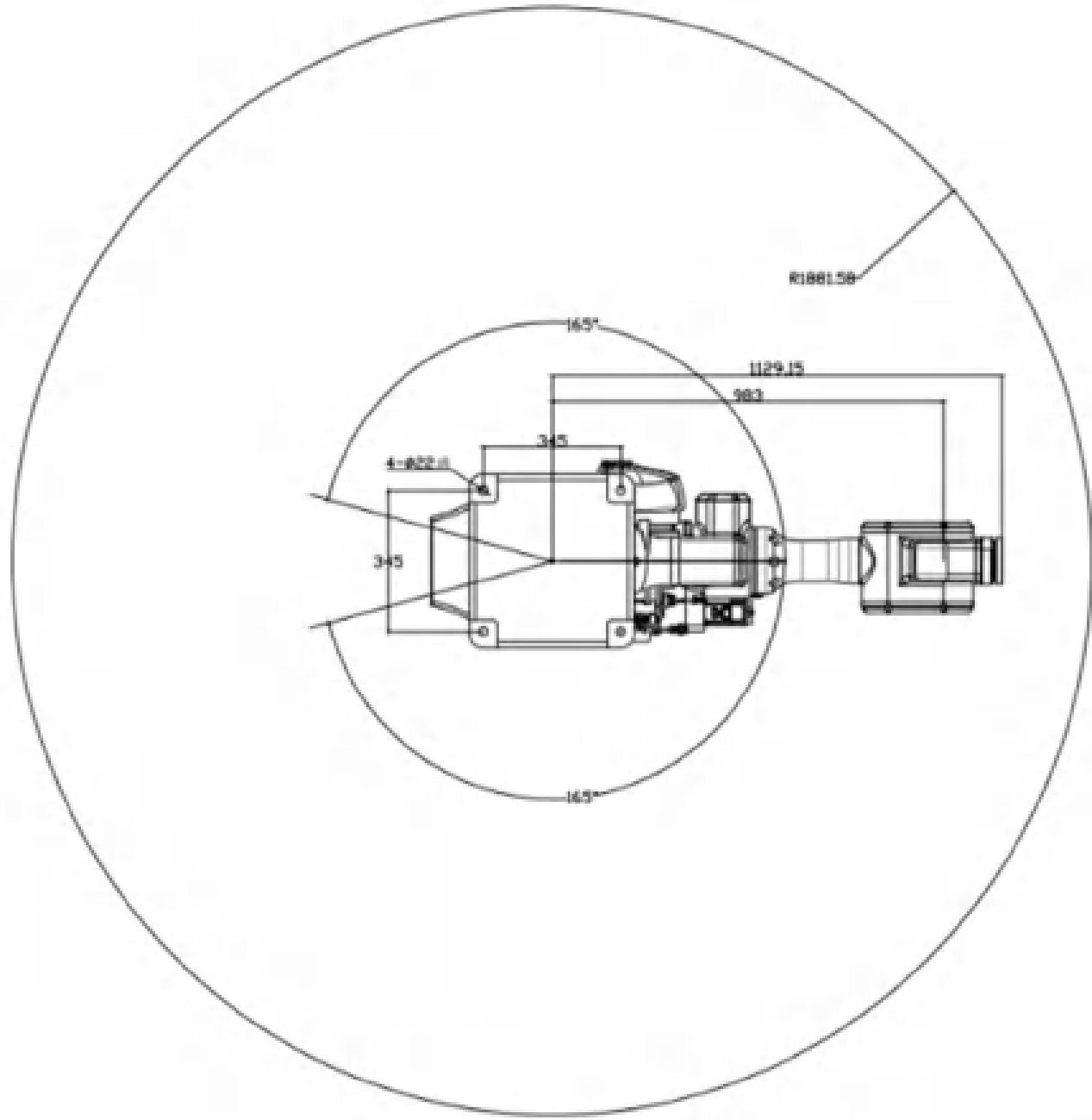
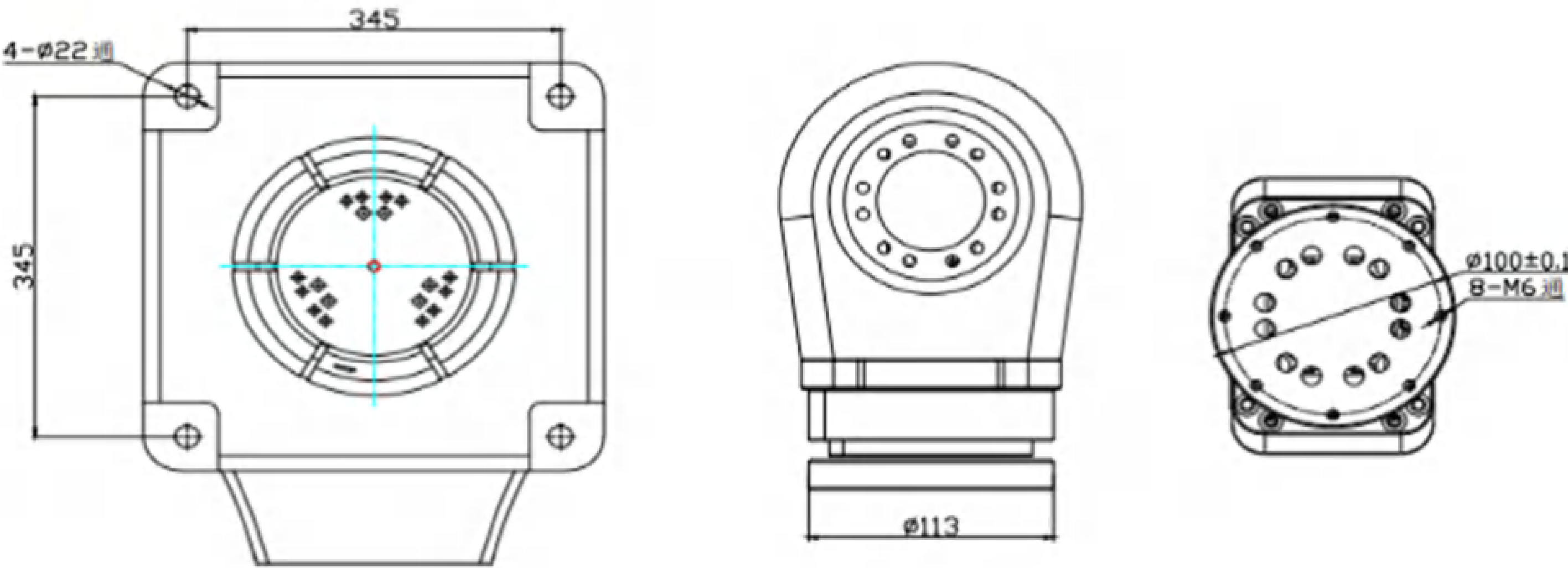
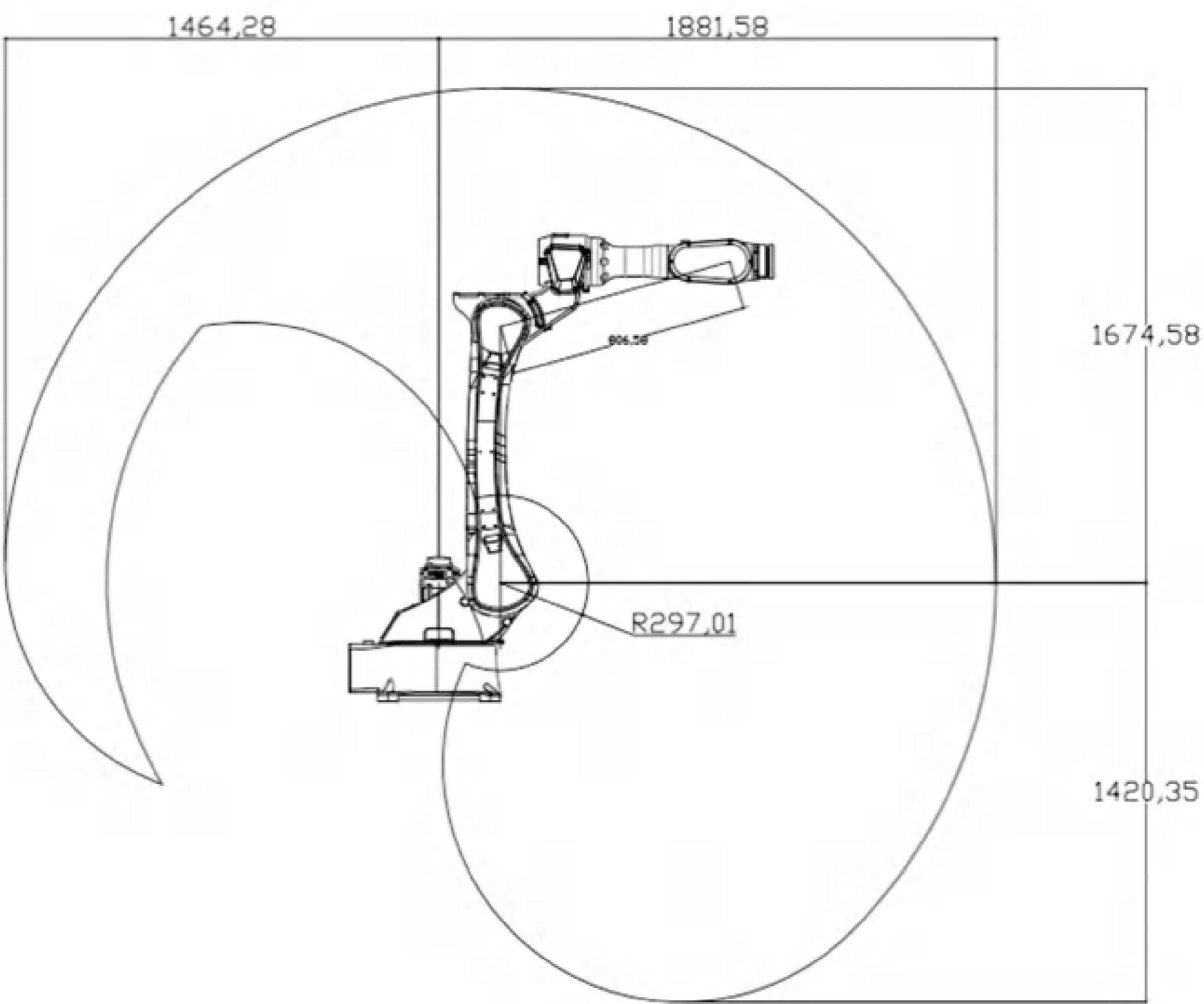
RM 1880/25 HW (Robotic Laser Welding)



Specification	
Number of axis	6(J 1, J 2, J 3, J 4, J 5, J 6)
Working range	1880mm
Rated payload	25 kg
Repeatability	±0.05mm
Mounting position	Floor, ceiling
Protection	
Protection rating	IP67
Cotroller	
Controller	RMC 201/RMC 203
Control system	Senou Lite
Physical	
Weight	210 kg
Environment	
Temperature during operation	0-45°
Humidity	20-80%(no condensation)
Noise level	< 85 db



Axis	Working range	Max. speed
J 1	-170°/+170°	150°/S
J 2	-95°/+80°	120°/S
J 3	-70°/+90°	120°/S
J 4	-170°/+170°	250°/S
J 5	-115°/+115°	250°/S
J 6	-360°/+360°	380°/S



Robotic Laser Welding

Key Advantages

- Higher welding efficiency than traditional TIG/MIG welding by 2-10 times.
- More friendly to environment, consuming less electric power for the same welding job.
- More friendly to welders and operators by eliminating hazards to human body.
- Easier to achieve high-quality welding results, especially for aluminium and stainless steel.
- Easy to use and to learn about operation.
- Digital control system, allowing parameters to be saved and retrieved.
- Safety design to turn off laser at the right time.



Standard packages:

- RobotMeta Pro controller and pendant.
- RM 1500/10 or RM 1800/25.
- Robotic laser source: 1.5 / 2.0 / 3.0 KW.
- Robotic laser head.
- Forced chiller.
- Robotic wire-feeder for laser welding.

Parameters				
1	Source & Power		1.5 KW	2 KW 3 KW
2	Input Voltage		AC 1P 220V AC 3P 380V	
3	Avg. Power Consumption		7.3 KW	8.1 KW 12 KW
4	Laser head		3-in-1 Type	
5	Functions		Welding / Cutting / Cleaning	
6	Applicable Material		Steel / Stainless Steel / Aluminum	
7	Thick-ness	Steel	1~2 mm	1~3 mm 1~4mm
		SUS	1~3 mm	1~4mm 1~5 mm
		Alu	1~2 mm	1~3 mm 1~4mm
8	Speed range		0~120 mm/s	
9	Cooling unit		Build-in	External
10	Wobble Length		1070 +/- 10 mm	
11	Wobble Frequency			
12	Wire-feeder		Standard with 4-roller feeder	
13	Applicable wire		0.8 / 1.0 / 1.2 / 1.6 mm	



Robotic TIG Welding

1. Applicable for TIG welding of thin sheets and tubes of various metal materials, including stainless steel, carbon steel, copper and copper alloy, titanium, aluminium and alloy.
2. Fully digital-control power source and high-precision wire-feeding system, ensuring stable wire-feeding even under changing input voltage or wire-feeding resistance.
3. Fully functional for robotic and automatic welding, reaching optimum welding finishing, penetration and width, with welding parameters adjustable for peak current, base current, pulse
4. Capable of output with various TIG waves for optimum welding results.
5. Capable of replacing up to 10 welders.
6. High ignition success rate and TIG arc stability.

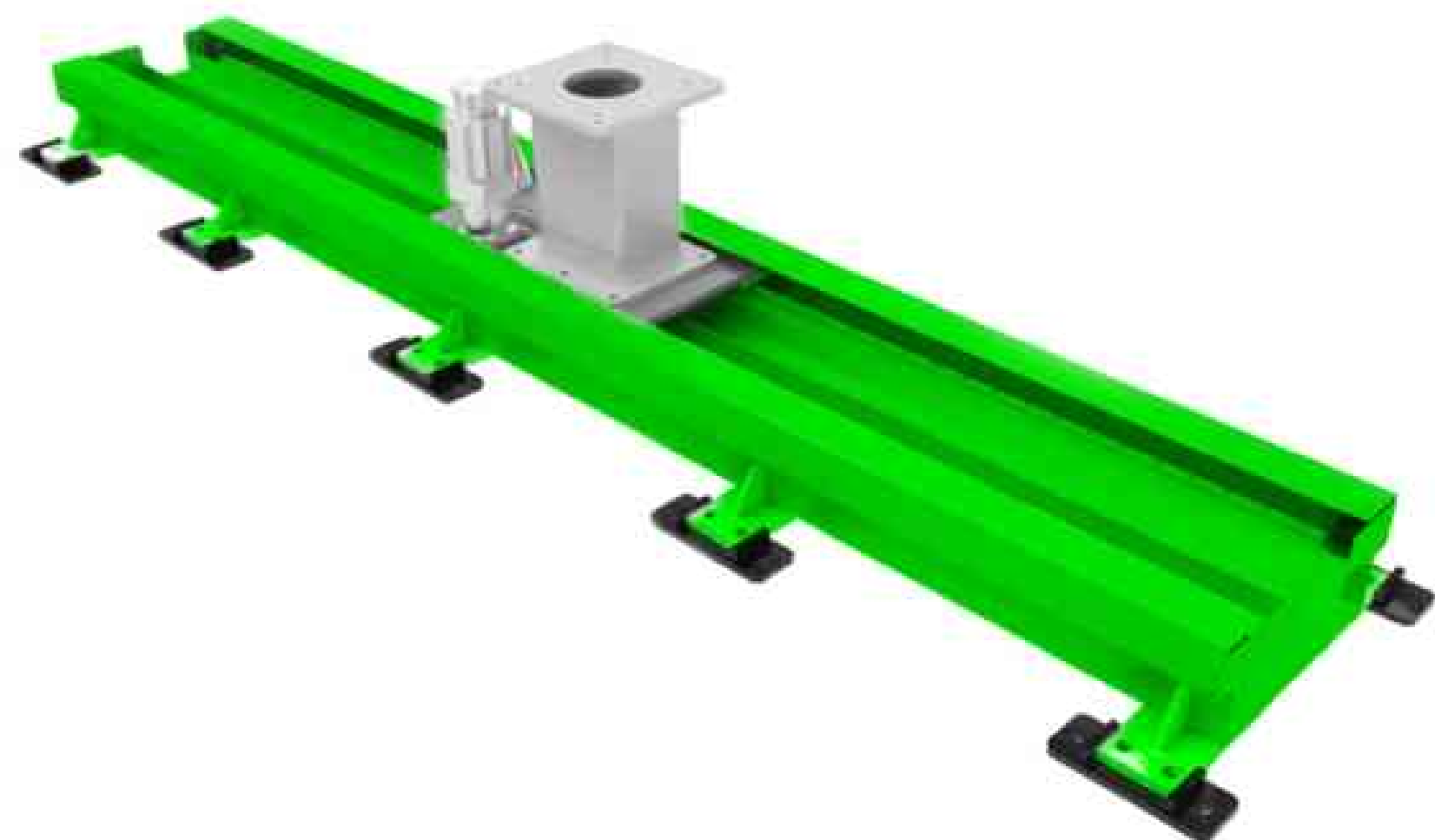


Specification		
Model	Pulse DC TIG 400 R	Pulse AC/DC TIG 315 R
Rated Input Voltage	AC 3PH 380V +/- 10%	
Rated Input Power(KVA)	18	13
Rated Input Current(A)	28	22.4
Rated Duty Cycle(%)	60	
Output no-load voltage(V)	Manual welding:71V	Manual welding:40V
	Chlorine arc welding:71V	Chlorine arc welding:66V
Enclosure rating	IP23	
Insulation Grade	H	
Dimension L*W*H(cm)	66*32*56	66*33*56
Gross Weight(Kg)	55	57
Compatible tungsten wire diameter (mm)	1—6	
Compatible welding rod diameter (mm)	2—6	
Maximum Argon Flow	25L/min	/



Specification	
Rating	400A
Duty cycle	80%
Wire Diameter	0.8~1.2
Types	Water-cool

Track

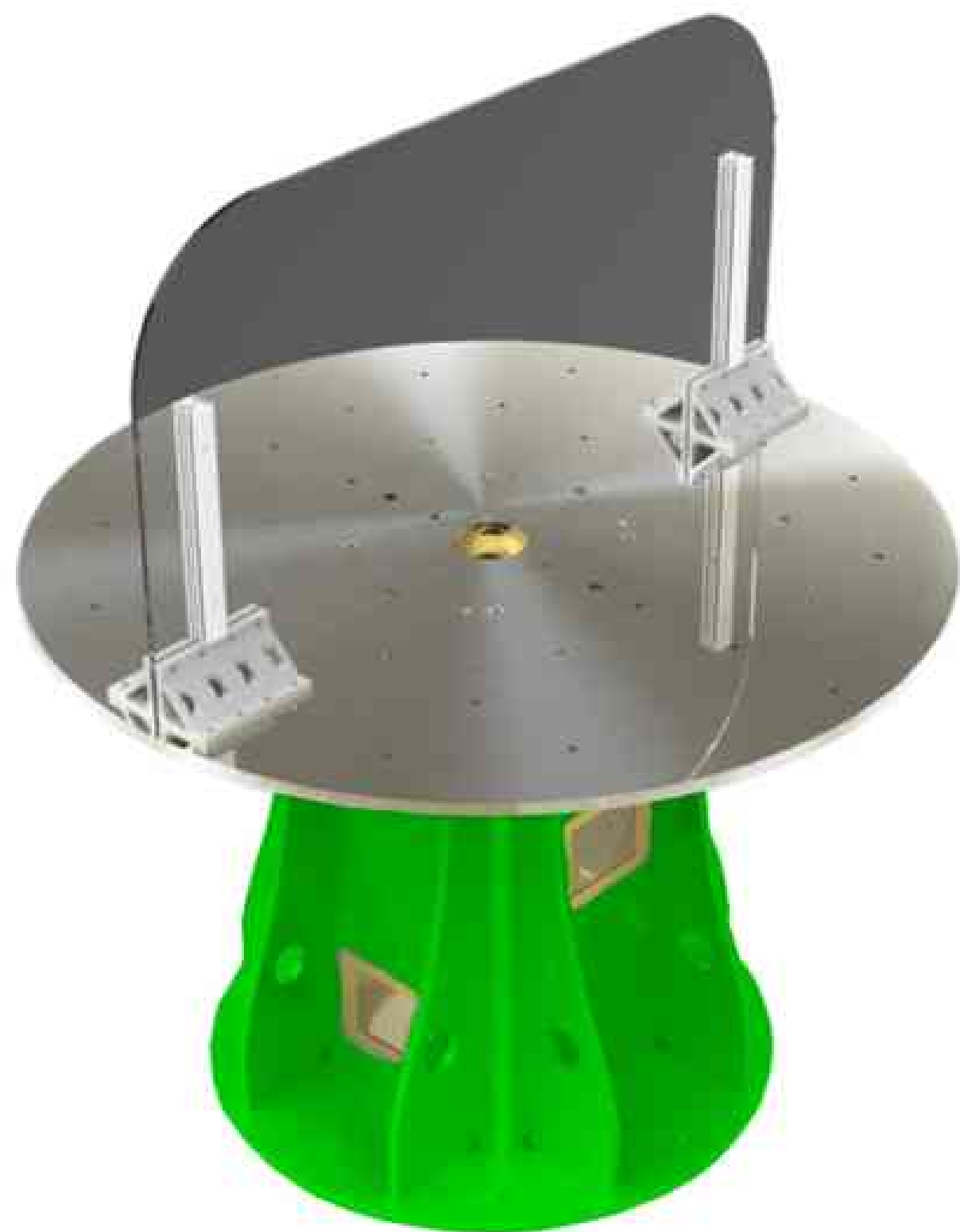


Specifiction

Model	R1-500	R1-1000	R1-2000
Payload (kg)	500	1000	2000
Effective working length (mm)	1. 3m effective working length for 4 m rail, including base but without cover. 2. Maximum length of 1 module: 6 m. 3. Effective working length decreases by 20% if cover is added.	1. 2.5 m effective working length for 4 m rail, including base but without cover. 2. Maximum length of 1 module: 6m.	1. 2.5 m effective working length for 4 m rail, including base but without cover. 2. Maximum length of 1 module: 6m.
Maximum speed of moving (mm/s)	800	800	500
Repeatability (mm)	±0.1	±0.1	±0.15
Total reduction ratio	14.2742	13.407	20.8227
Servo moto power (kw)	1.5	3.0	3.0

Turn-table / 1 Axis

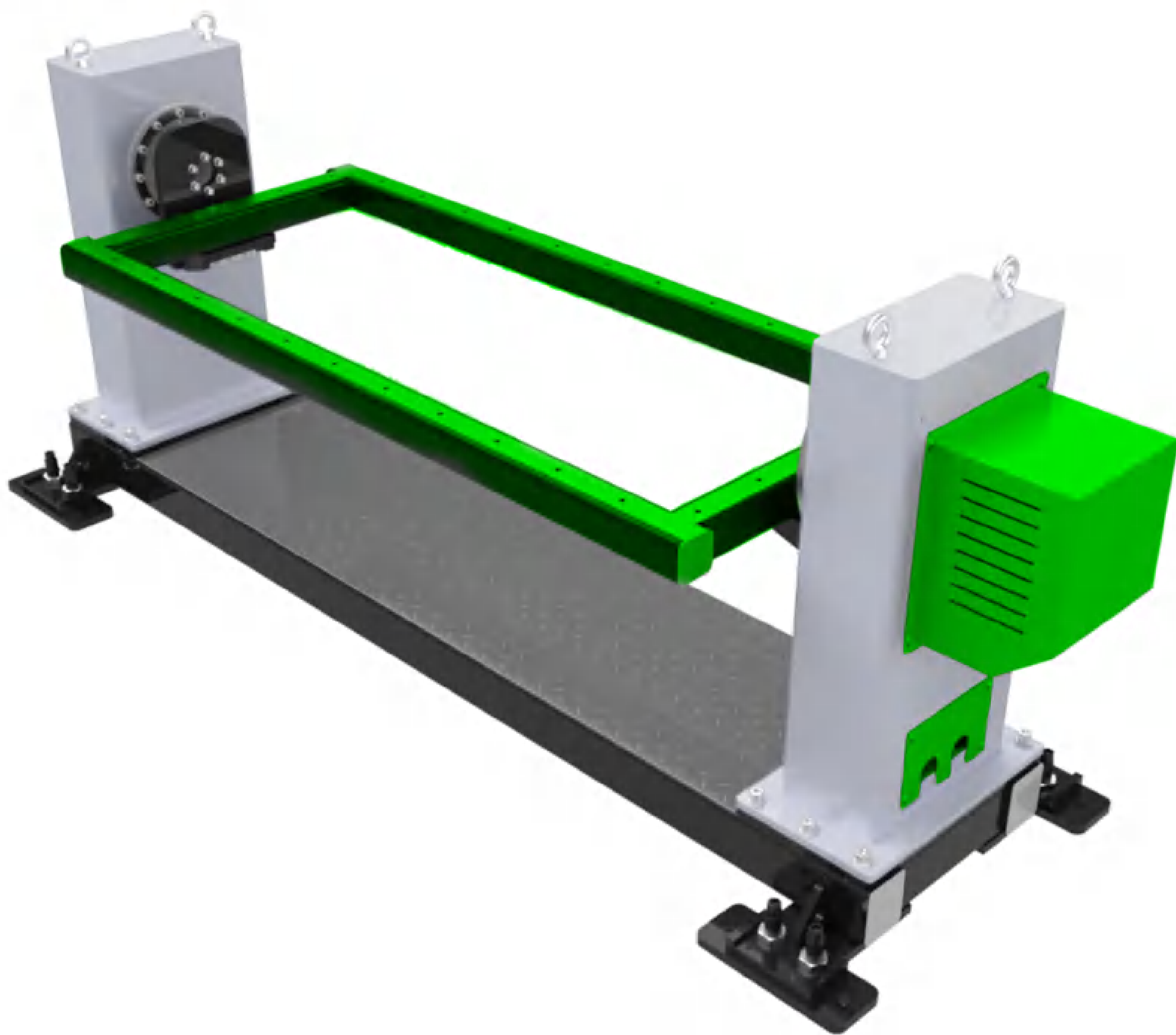
Specifiction



Model	TT1-250-400	TT1-500-400	TT1-750-400
Payload (kg)	250	500	750
Table diameter (mm)	400		
Rotating speed (°/s)	76.4	67.8	45.3
Repeatability (arcmin)	±1.0		
Rotary angle (°)	±360		
Eccentricity length (mm)	≤200		
Gravity distance (mm)	≤200		
RV reducer	27C—157	50C—177	100C—264.6
Total reduction ratio	157	177	264.6
Servo motor power (kw)	1.0	2.0	

* Please note that the finished products may slightly differ from the pictures in exterior design and colour. Functions and working mechanism remain as the same.

U-type Positioner / 1 Axis



Specifiction

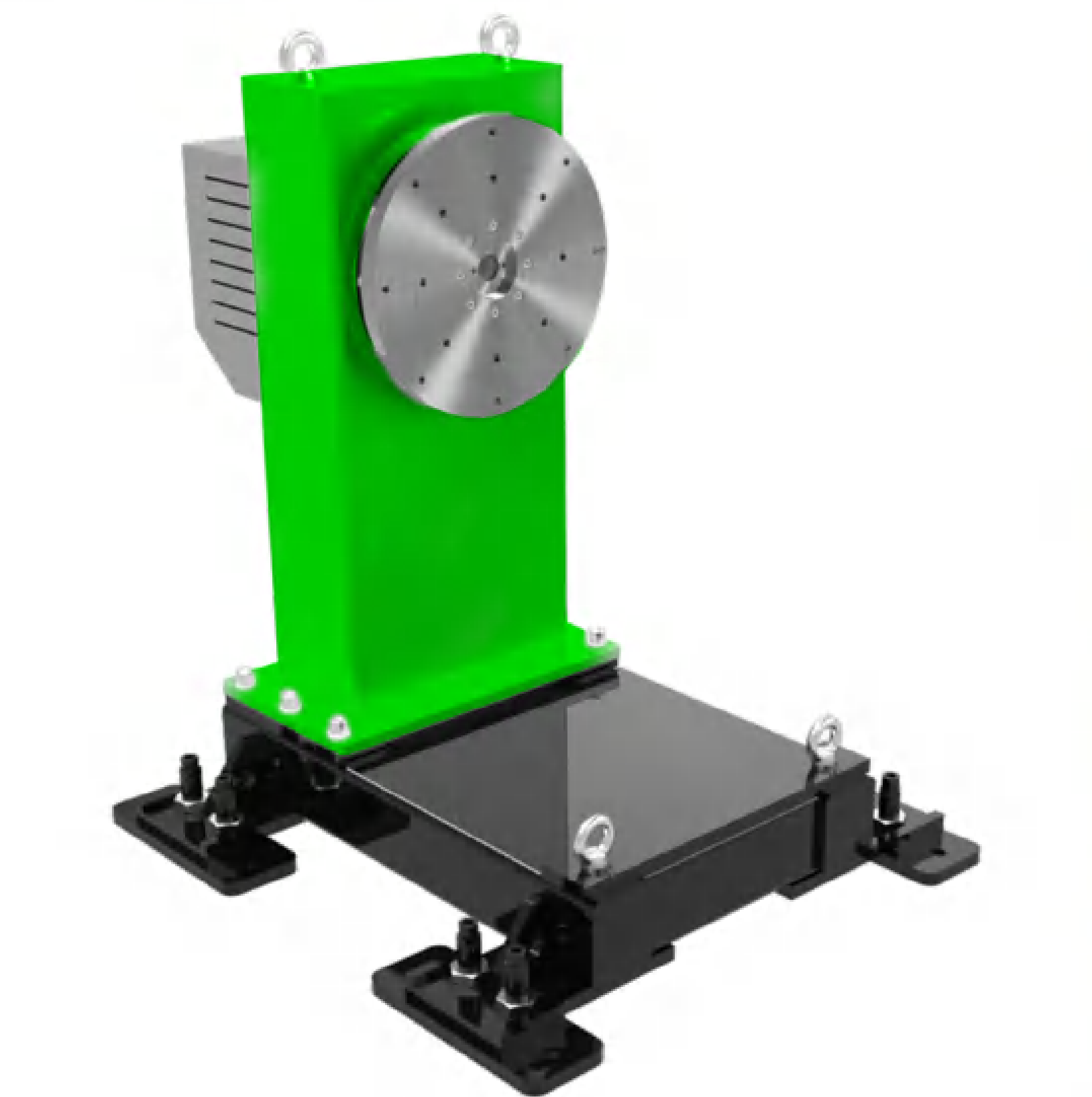
Model	U1-250-1800/800	U1-500-1800/800	U1-1000-1800/800	U1-250-2500/800	U1-500-2500/800	U1-1000-2500/800	U1-2000-3000/800	U1-3000-3000/800
Payload (kg)	250	500	1000	250	500	1000	2000	3000
Height (axis center to base) (mm)	650						950	
Frame size (mm)	1800×800			2500×800			3000×800	
Rotating speed (°/s)	78	78	74	78	78	74	64.5	22.63
Repeatability (arcmin)	±1.0	±1.0	±1.2	±1.0	±1.0	±1.2	±1.2	±1.8
Rotary angle (°)	±360							
Eccentricity length (mm)	≤150		≤100	≤150		≤100		≤80
Gravity distance (mm)	≤300		≤200	≤300		≤200		≤150
RV reducer	40E—153	80E—153	110E—161	40E—153	80E—153	110E—161	320E—185	
Total reduction ratio	153		161	153		161	185	530.34
Servo motor power (kw)	1.5	2.0	3.0	1.5	2.0	3.0	3.0	4.3

* Please note that the finished products may slightly differ from the pictures in exterior design and colour. Functions and working mechanism remain as the same.

L-type Positioner

/ 1 Axis

Specifiction

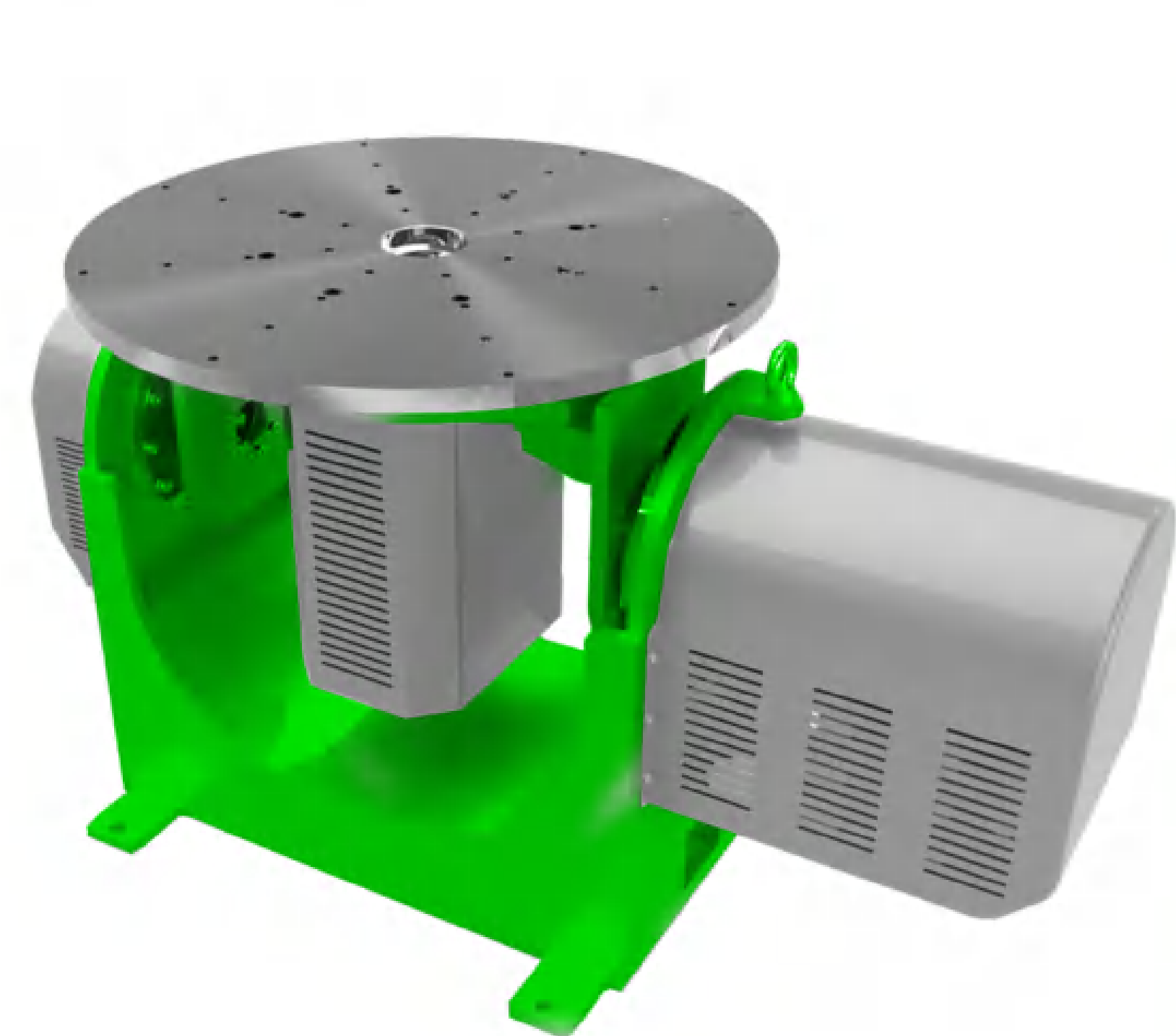


Model	L1-250-400	L1-500-400	L1-1000-800	L1-2000-800
Payload (kg)	250	500	1000	2000
Table diameter (mm)	400		800	
Rotating speed (°/s)	67.7	45	12.6	11.66
Repeatability (arcmin)	±1.0		±1.8	
Rotary angle (°)	±360			
Eccentricity length (mm)	≤150		≤100	
Gravity distance (mm)	≤150		≤100	
RV reducer	27C—177	100C—264.6	160E—171	320E—185
Total reduction ratio	177	264.6	951.19	1029.06
Servo motor power (kw)	1.5	3.0	3.0	4.3

P-type Positioner

/ 2 Axis

Specifiction

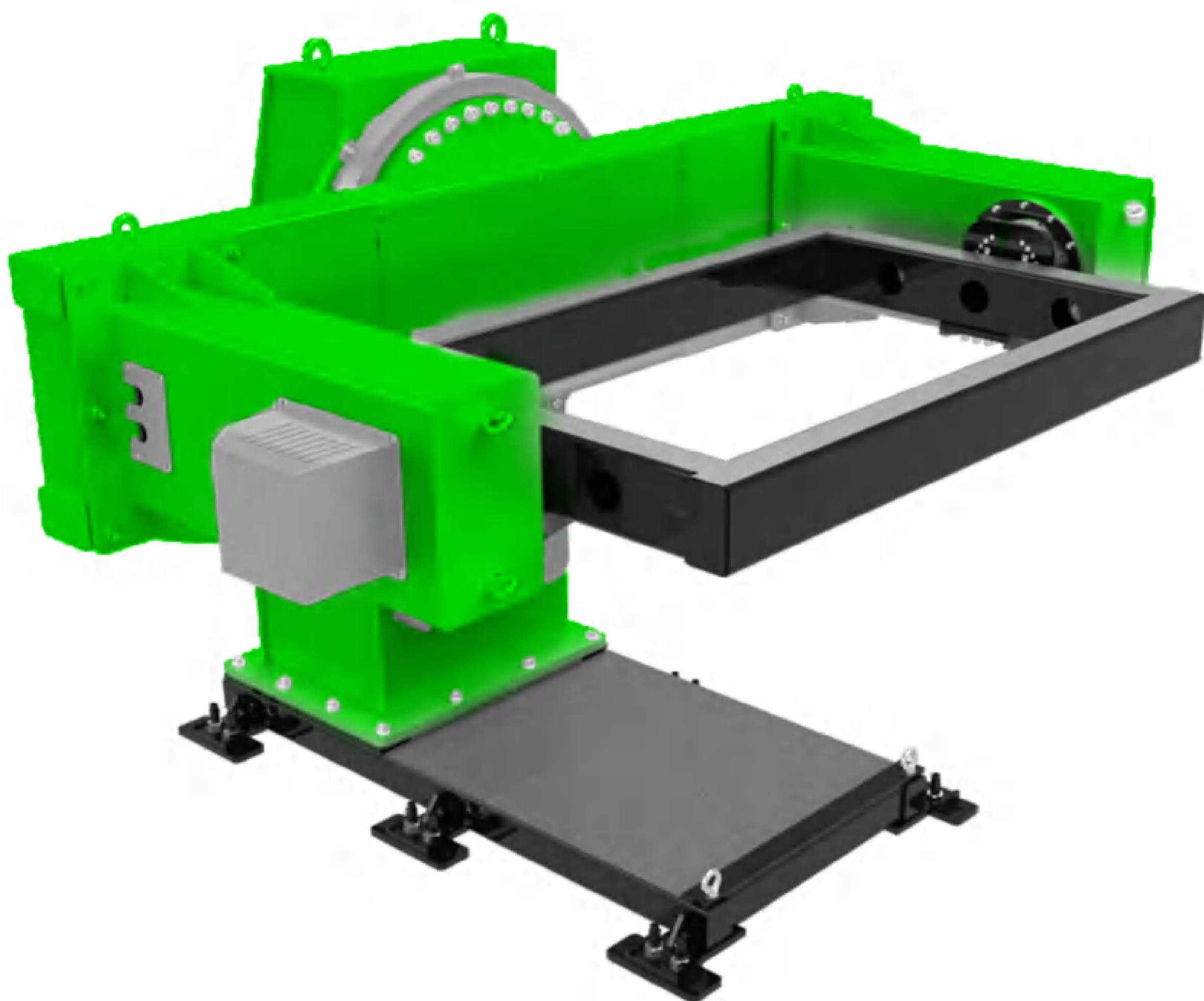


Model		P2-250-800	P2-500-800
Payload (kg)		250	500
Table diameter (mm)		800	
Rotating speed (°/s)	Flipping axis	78	45
	Rotating axis	76.4	67.7
Repeatability (arcmin)		±1.5	
Rotary angle (°)		Flipping axis:±90; Rotating axis:±360	
Eccentricity length (mm)		≤100	
Gravity distance (mm)		≤100	
RV reducer	Flipping axis	40E—152	100C—264.6
	Rotating axis	27C—157	50C—177
Total reduction ratio	Flipping axis	153	264.6
	Rotating axis	157	177
Servo motor power (kw)	Flipping axis	2.0	3.0
	Rotating axis	1.5	2.0

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Positioner / 2 Axis

LU-type Positioner / 2 Axis

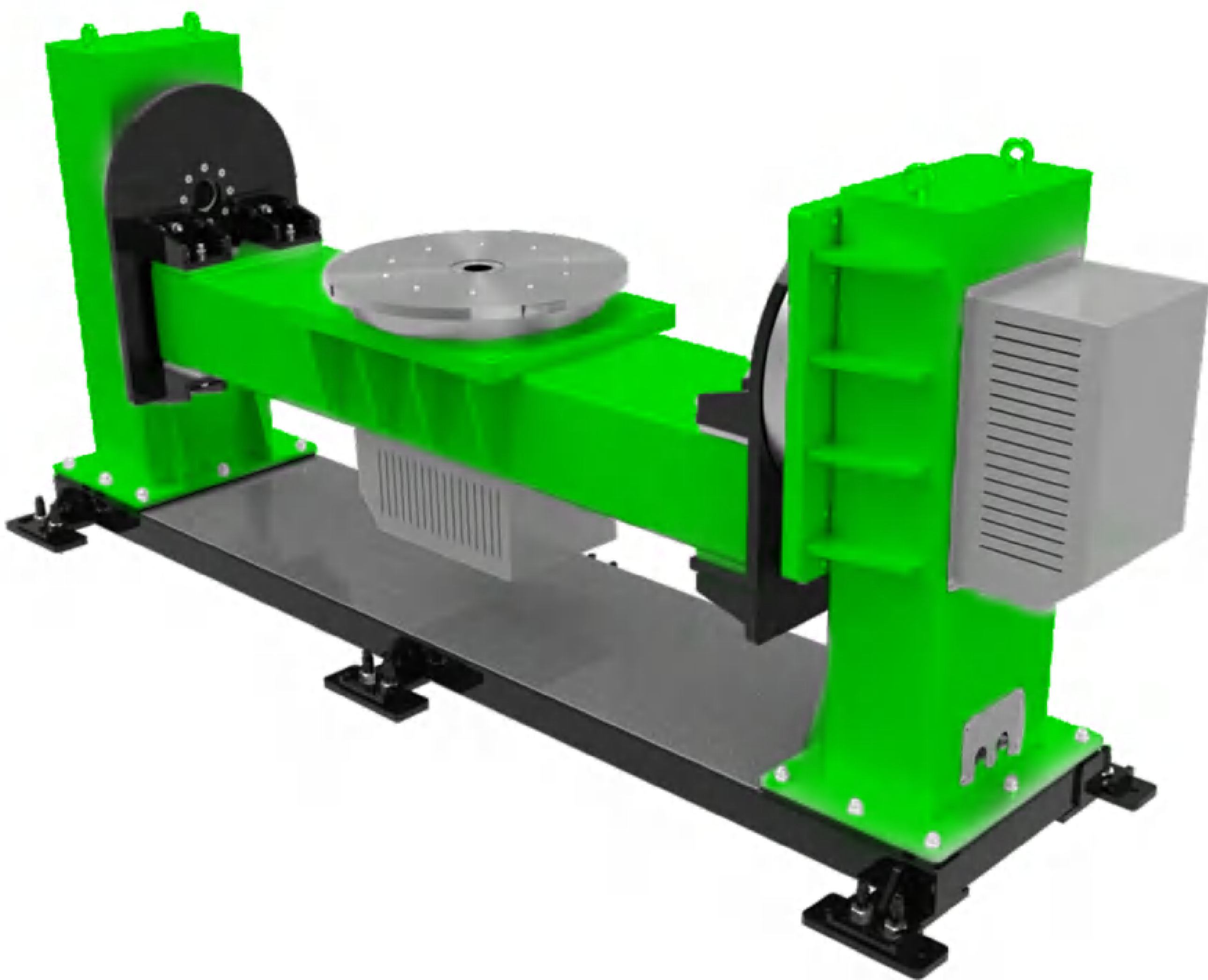


Specifiction

Model		LU2-250-1800/800	LU2-500-1800/800	LU2-1000-1800/800	LU2-2000-1800/800
Payload (kg)		250	500	1000	2000
Frame size (mm)		1800*800			
Rotating speed (°/s)	Flipping axis	42.7	12.5	12.5	11.66
	Rotating axis	78	78	70	64.86
Repeatability (arcmin)		±1.5			±2.0
Rotary angle (°)		Flipping axis:±180; Rotating axis:±360			
Eccentricity length (mm)		≤200	≤150		
Gravity distance (mm)		≤100			
RV reducer	Flipping axis	200C—281	160E—171	160E—171	320E—185
	Rotating axis	40E—153	80E—153	160E—171	320E—185
Total reduction ratio	Flipping axis	281	951.19	951.19	1029.06
	Rotating axis	153	153	171	185
Servo motor power (kw)	Flipping axis	3.0	3.0	3.0	4.3
	Rotating axis	2.0	2.0	2.0	3.0

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U-type Positioner / 2 Axis



Specifiction

Model		UT2-250-1200	UT2-500-1200	UT2-250-1400	UT2-500-1400	UT2-1000-1500	UT2-1000-1600
Payload (kg)		250	500	250	500	1000	1000
Table diameter (mm)		1200		1400		1500	1600
Rotating speed (°/s)	Flipping axis	45				42	
	Rotating axis	67.7				42	
Repeatability (arcmin)		±1.0				±1.5	
Rotary angle (°)		Flipping axis:±90; Rotating axis:±360					
Eccentricity length (mm)		≤100					
Gravity distance (mm)		≤200					
RV reducer	Flipping axis	100C—264.6				200C—281	
	Rotating axis	27C—177	50C—177	27C—177	50C—177	200C—281	200C—281
Total reduction ratio	Flipping axis	264.6				281	
	Rotating axis	157	177			281	
Servo motor power (kw)	Flipping axis	3.0					
	Rotating axis	1.5	2.0	1.5	2.0	3.0	3.0

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L-type Positioner / 2Axis

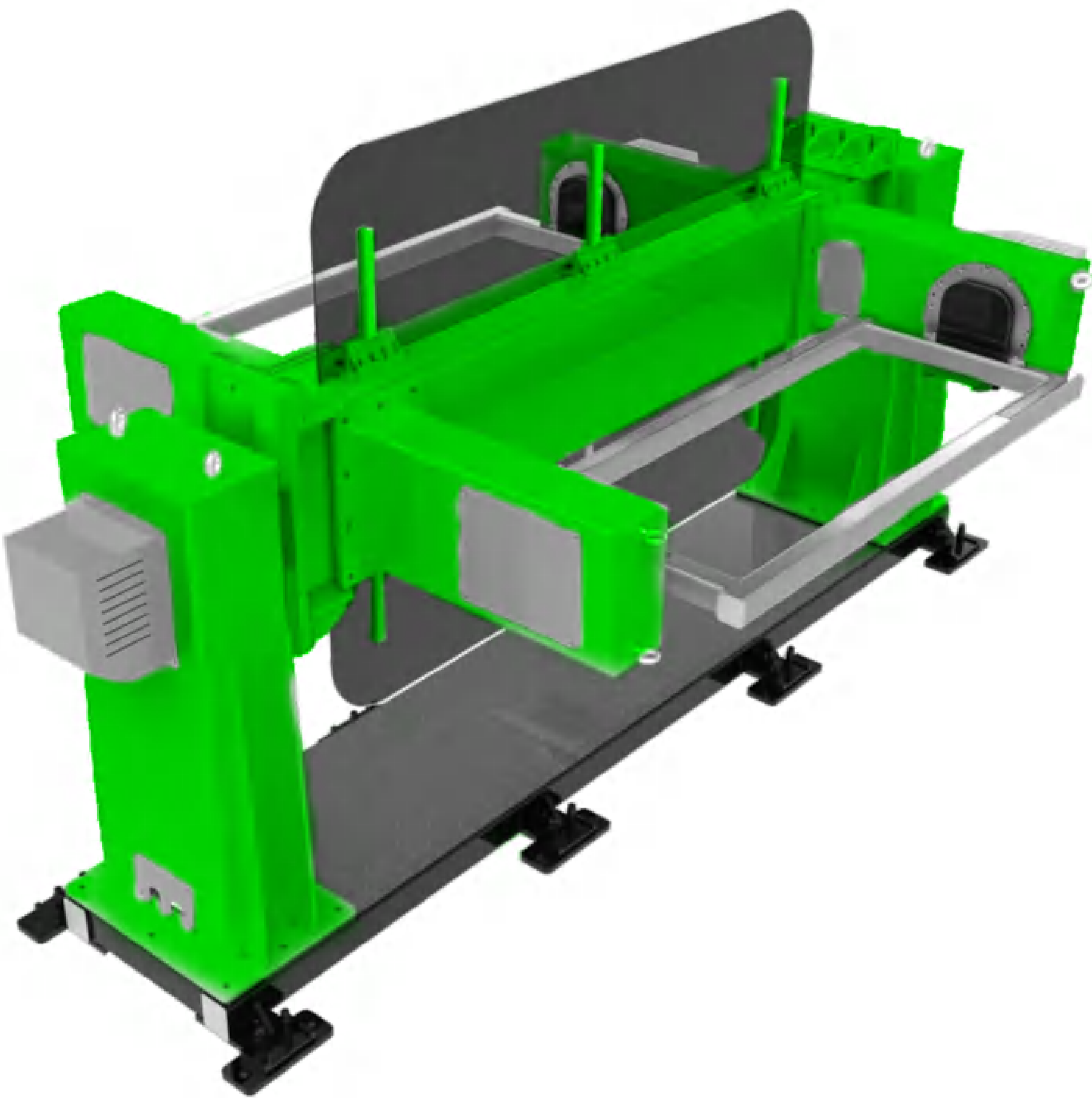


Specifiction

Model		L2-250-800	L2-500-800	L2-1000-1200	L2-2000-1200
Payload (kg)		250	500	1000	2000
Table diameter (mm)		800		1200	
Rotating speed (°/s)	Flipping axis	45.3	42	12.6	11.66
	Rotating axis	76.43	67.8	42.7	24.48
Repeatability (arcmin)		±1.5		±1.8	
Rotary angle (°)		Flipping axis:±180; Rotating axis:±360			
Eccentricity length (mm)		≤200	≤250	≤250	≤150
Gravity distance (mm)		≤200	≤300	≤300	≤200
RV reducer	Flipping axis	100C—264.6	200C—281	160E—171	320E—185
	Rotating axis	27C—157	50C—177	200C—281	160E—171
Total reduction ratio	Flipping axis	264.6	281	1029.06	1029.06
	Rotating axis	157	177	281	490.21
Servo motor power (kw)	Flipping axis	3.0	3.0	3.0	4.3
	Rotating axis	1.5	2.0	2.0	3.0

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U-type Positioner / 3 Axis

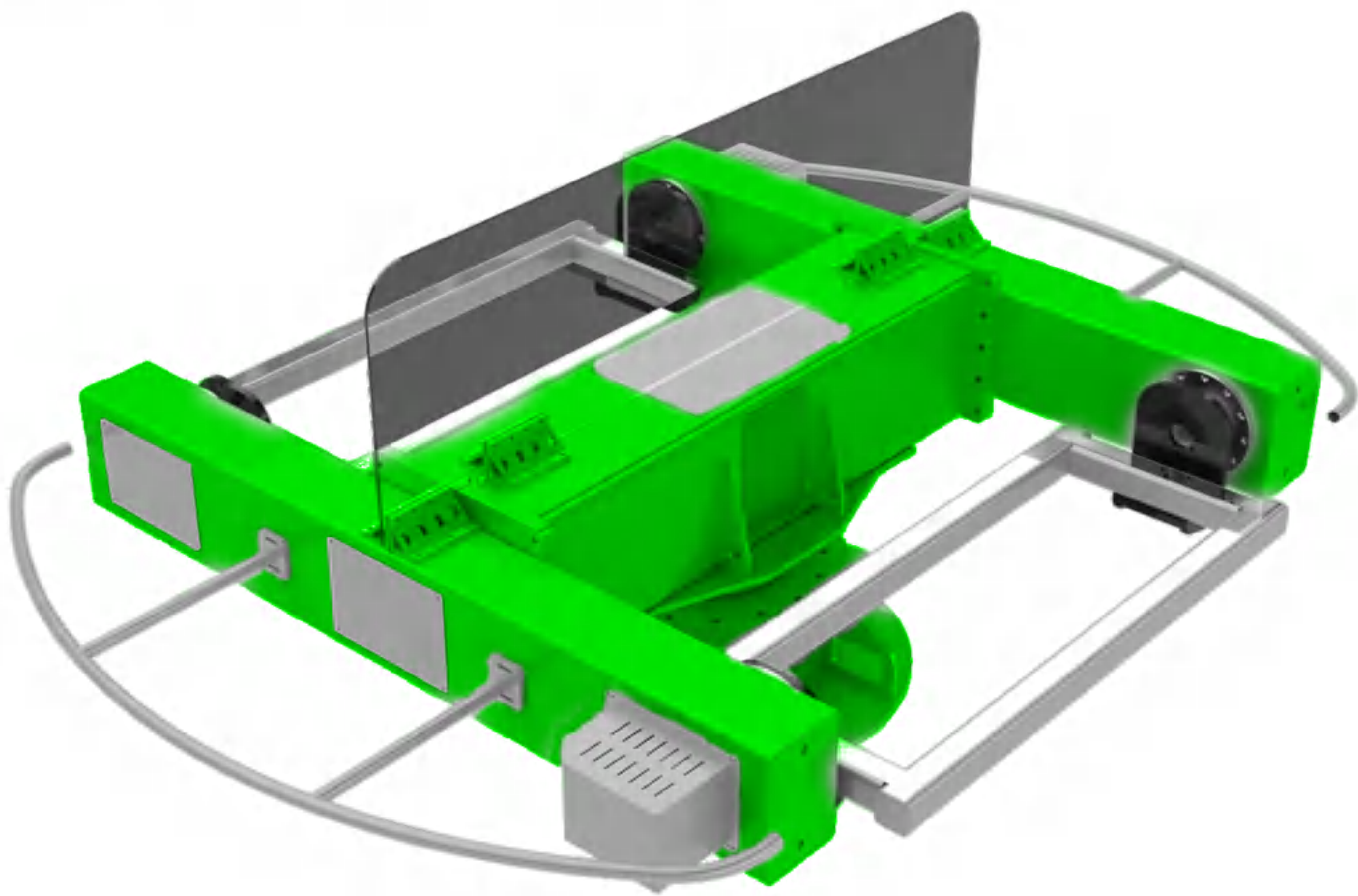


Specifiction

Model		U3-250-1800/800	U3-500-1800/800	U3-1000-1800/800	U3-250-2500/800	U3-500-2500/800	U3-1000-2500/800
Payload (kg)		250	500	1000	250	500	1000
Frame size(mm)		1800*800			2500*800		
Rotating speed (°/s)	Outer axis	64	64	22.63	64	64	22.63
	Inner axis*2	78	78	70	78	78	70
Repeatability (arcmin)		±1.5					
Rotary angle (°)		Outer axis:±180; Inner axis:±360					
Eccentricity length (mm)		≤100					
Gravity distance (mm)		≤150					
RV reducer	Outer axis	320E—185					
	Inner axis*2	40E—153	80E—153	160E—153	40E—153	80E—153	160E—153
Total reduction ratio	Outer axis	185		530.34	185		530.34
	Inner axis*2	153		171	153		171
Servo motor power (kw)	Outer axis	3.0					
	Inner axis*2	1.5		3.0	1.5		3.0

* Please note that the finished products may slightly differ from the pictures in exterior design and colour. Functions and working mechanism remain as the same.

Horizontal Rotating Positioner / 3 Axis

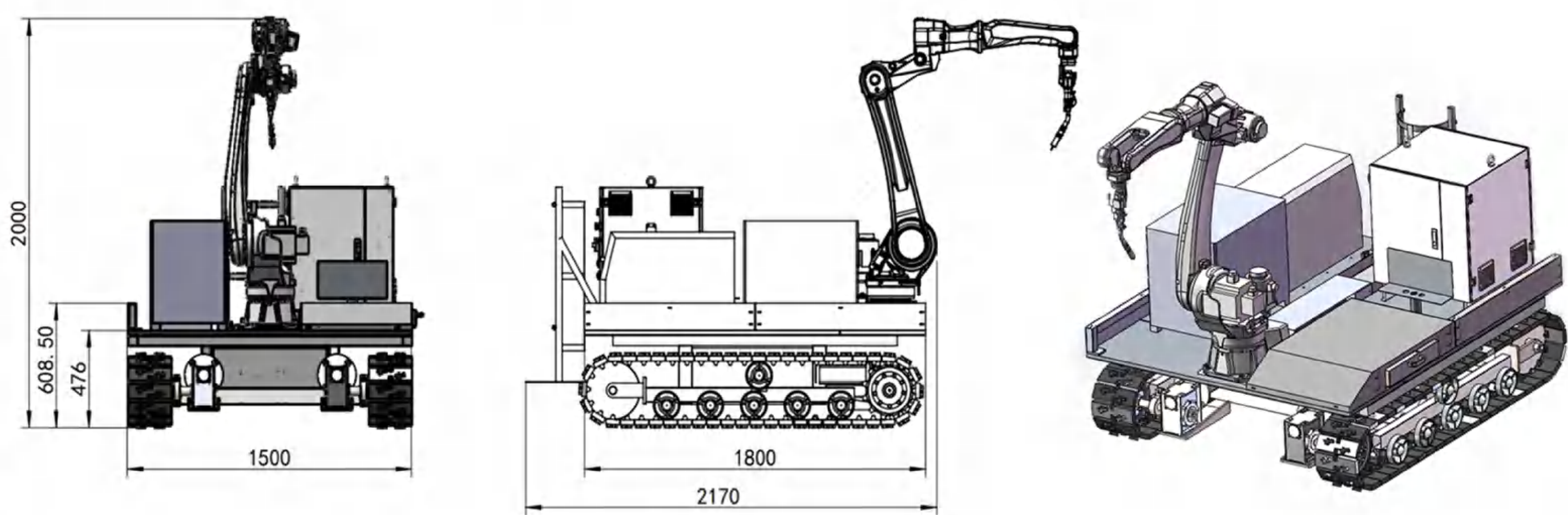


Specifiction

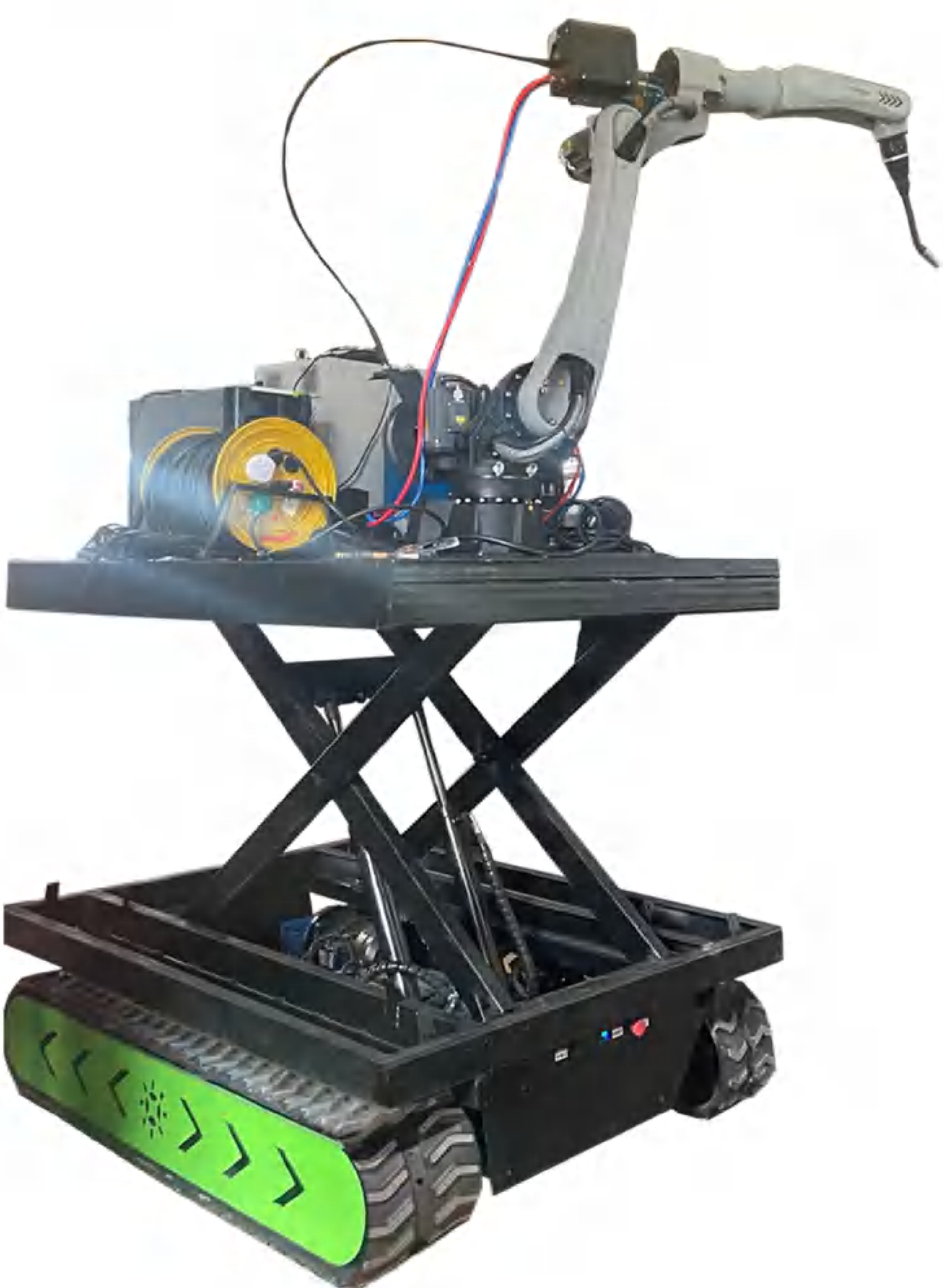
Model		HRU3-250-1800/800	HRU3-500-1800/800	HRU3-1000-1800/800	HRU3-250-2500/800	HRU3-500-2500/800	HRU3-1000-2500/800
Payload (kg)		250	500	1000	250	500	1000
Frame size(mm)		1800*800			2500*800		
Rotating speed (°/s)	Flipping axis*2	78	78	74.5	78	78	74.5
	Rotating axis	42	24.48	11.66	42	24.48	11.6
Repeatability (arcmin)		±1.5	±1.8	±1.8	±1.5	±1.8	±1.8
Rotary angle (°)		Flipping axis:±180; Rotating axis:±360					
Eccentricity length (mm)		≤100					
Gravity distance (mm)		≤150					
RV reducer	Flipping axis*2	40E—153	80E—153	110E—161	40E—153	80E—153	110E—161
	Rotating axis	200C—281	320C—202.36	320E—185	200C—281	320C—202.36	320E—185
Total reduction ratio	Flipping axis*2	153		161	153		161
	Rotating axis	281	202.36	1029.06	281	202.36	1029.06
Servo motor power (kw)	Flipping axis*2	1.5		3.0	1.5	2.0	3.0
	Rotating axis	3.0	4.3		3.0	4.3	

* Please note that the finished products may slightly differ from the pictures in exterior design and colour. Functions and working mechanism remain as the same.

- 1. Multi-functionality: multiple welding methods to meet different types of welding needs.
- 2. High-precision: advanced sensor and control system, achieving high-precision welding.
- 3. Flexibility: move freely in complex on-site environments and easily reach the welding positions.
- 4. Intelligence: through programming, auto-positioning and adjustment of welding parameters can be achieved to improve work efficiency.
- 5. Safety: reduce manual operations in hazardous environments and lower the risks.
- 6. Efficiency: able to work continuously, improving the efficiency of welding jobs.
- 7. Adaptability: suitable for different welding materials and shapes of workpieces.
- 8. Remote Control: support remote control for easy monitoring and managing.



Crawler		
Length of Caterpillar Belt	2 m	
Width of Caterpillar Belt	1.4 m	
Motor Power	2.2 KW *2	
Elevation Height	/	1 m
Thickness of Caterpillar Belt	230 mm	
Recuder Model	90 Reducer	
Battery	48 V, 52 AH	
Power Unit	2.2 KW	



Robotic Grinding Package

Parameters	
RM 1880/25 HW	
Product model	SFC1020-DZ13
Range of grinding force	1-100N
Position ranges	0-20 mm
Force-controlled precision	±1N
positional precision	0.02mm
Power of motorized spindle	1.3KW
RPM	6000r/min
Rated voltage	AC220V
Rated current (maximum current)	6.1A (12.2A)
Torque (maximum torque)	3.9N.m (11.7N)
Tool handle change mode	Manual tool change
Floating direction	Axial floating
end effectors weight	12kg



- Product features:
 - * Full force position compensation, closed-loop control, preset sanding force and constant force, which ensure consistent quality of work piece surfaces.
 - With a 20mm displacement compensation range, the grinding force remains constant, which enable to make highquality grinding on complex work pieces surfaces.It effectively compensates for workpiece size errors,clamping errors, and robot path errors.
- A user-friendly human-machine interface with simple operation, reducing the difficulty of robot debugging.
- Force-controlled circular floating module is small in size and light in weight and has the ability to carry multipl grinding tools which can be easily mounted on collaborative robots that require to load more than 20kg.
- apply multiple communication protocols such as modbus, I/O, analog input, and apply up to 16 different perating onditions selection.
- Applicable surface treatment processes: surface polishing and grinding to work pieces surface.
- Applicable work piece types: grinding and polishing for wood, aluminum alloy, 3C electronics,plastic parts, etc.
- Recommend consumable items: sandpaper, grinding disc, flap disc, etc.

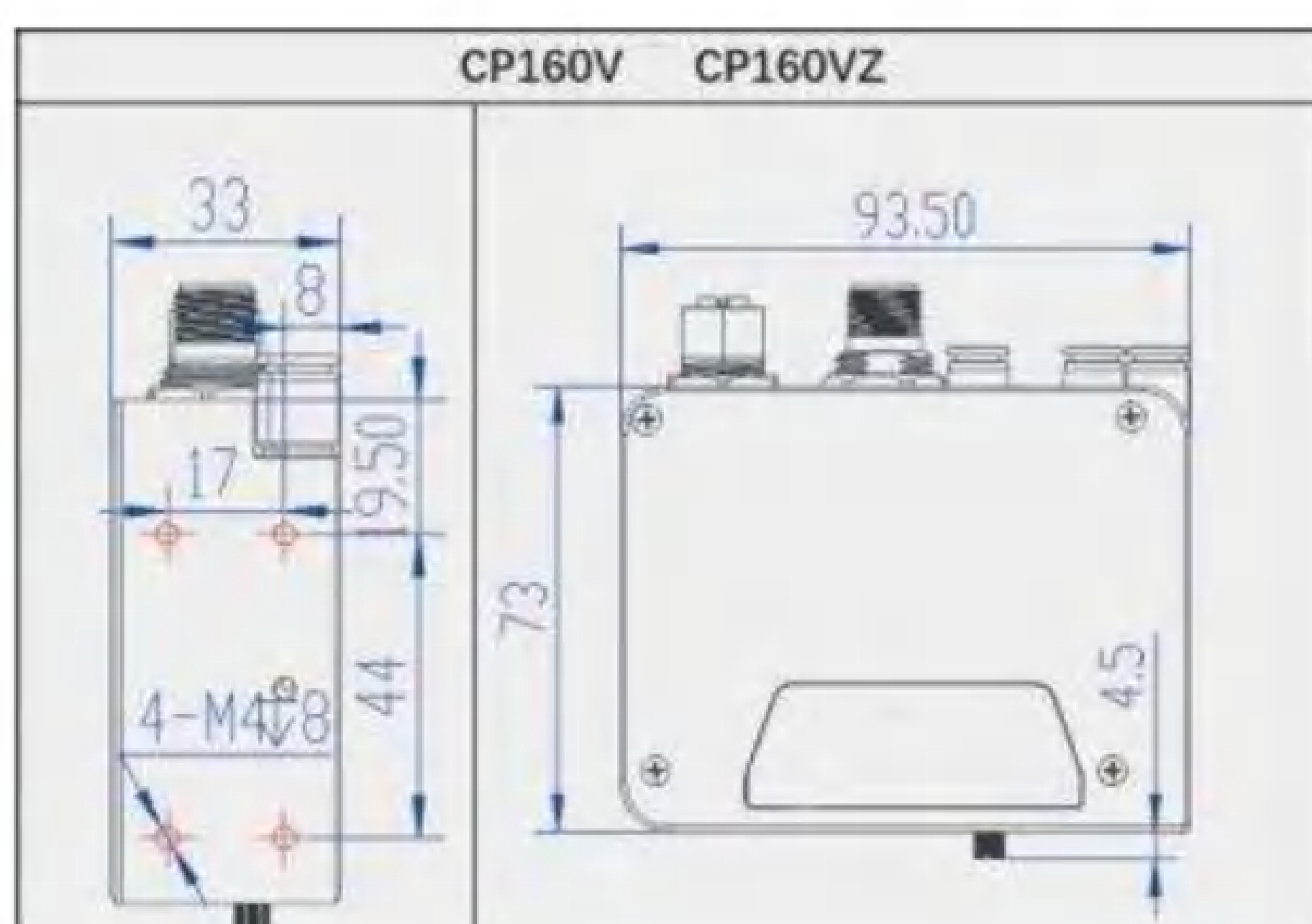
Laser tracking

- High frame rate
- Highly integrated intelligent products
- Compact and optimized structure
- intelligent guidance and detection
- Dozens of weld seam identification algorithms
- Directly provide weld seam characteristics through contour analysis
- Suitable for gas shielded welding, argon arc welding, laser welding, plasma welding and other processes
- Able to communicate with robots, welding machines and other equipment to form an intelligent welding system

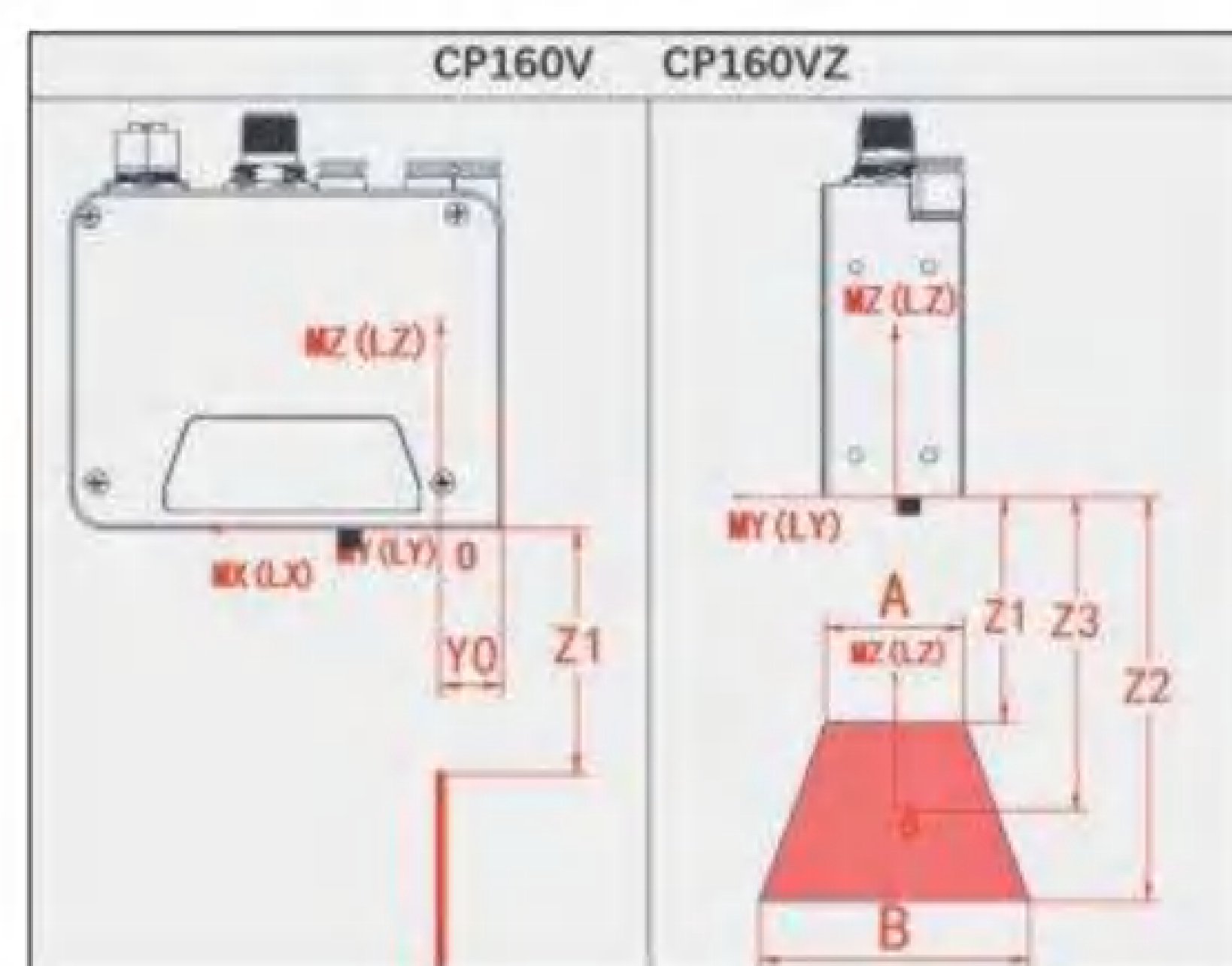
Sensor Parameters		
Model		RMLS-CP-160V
Laser		Vertical
Frequency		115
Proximal	Sight Distance Z1(mm)	80
	Laser Width(mm)	48
Remote	Sight Distance Z1(mm)	240
	Laser Width(mm)	116
Center Sight Distance Z3(mm)		160
Lateral Resolution		0.06-0.13
Depth Resolution		0.10-0.55
Communication interface		Ethernet
Agreement Type		TCPIP、ModbusTcp、UDP、EthernetIP
Operating Temperature		0-60°
Operating Humidity		10-95%No Condensation
Scope of Application		Weld seam positioning tracking,parts detection, identification and measurement.



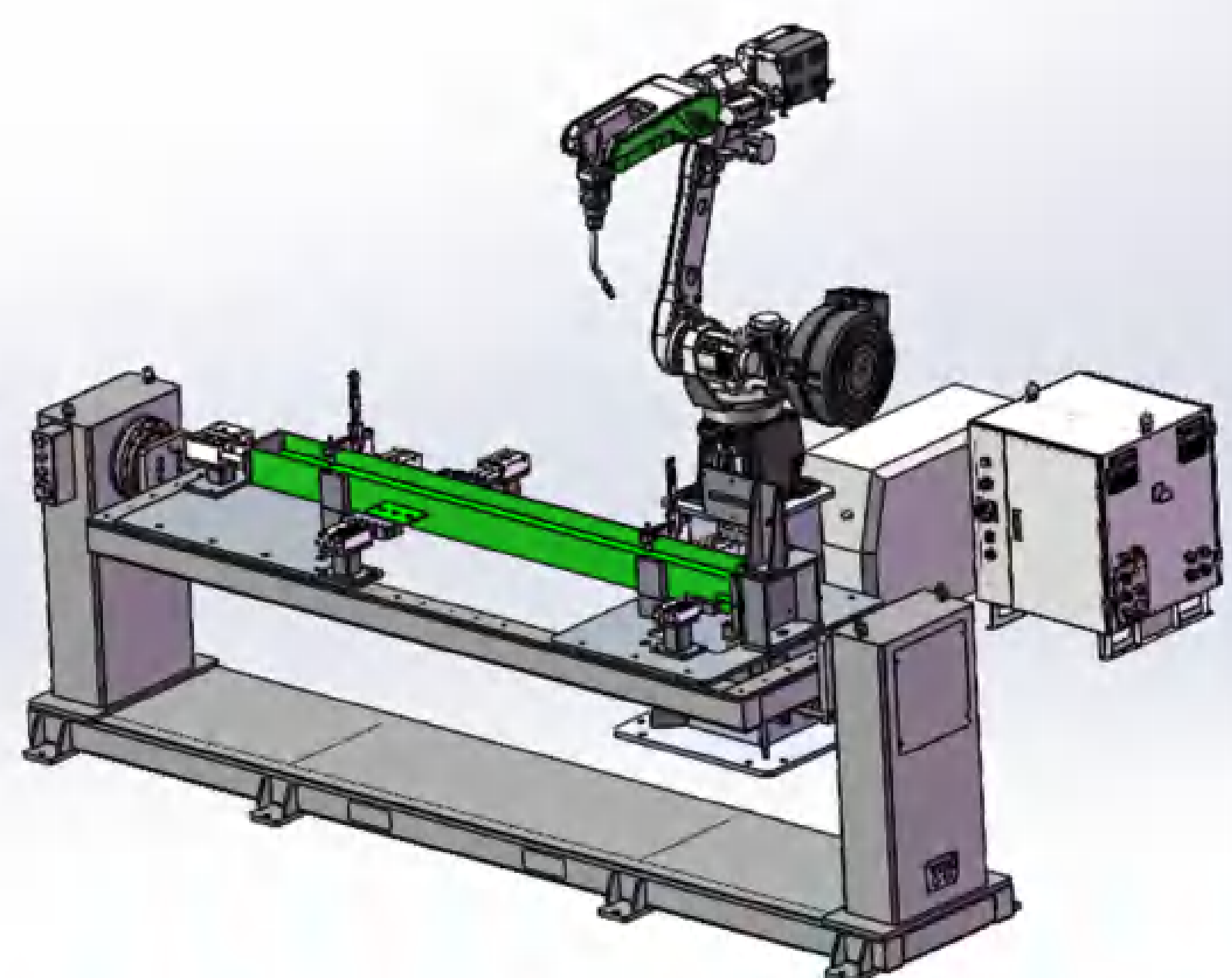
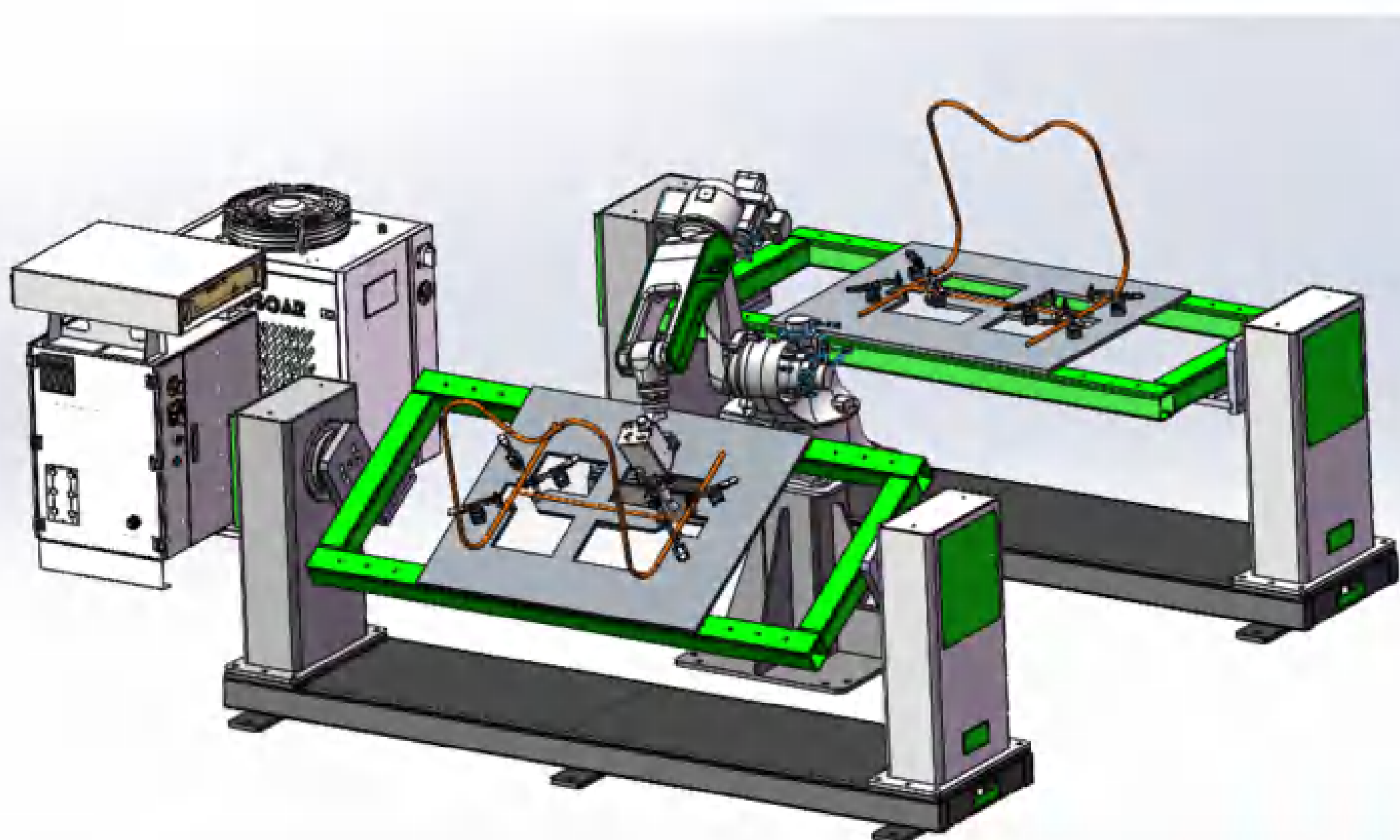
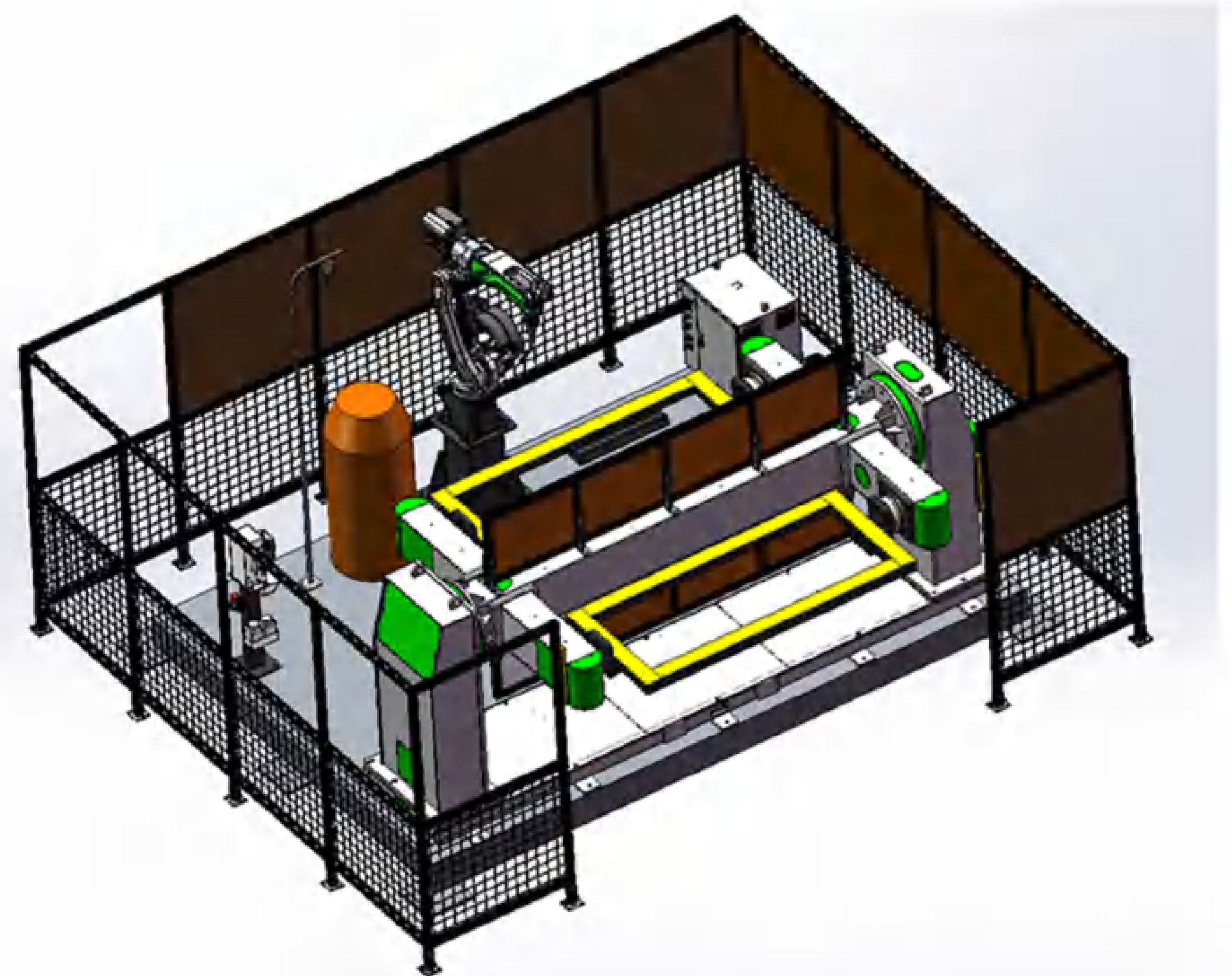
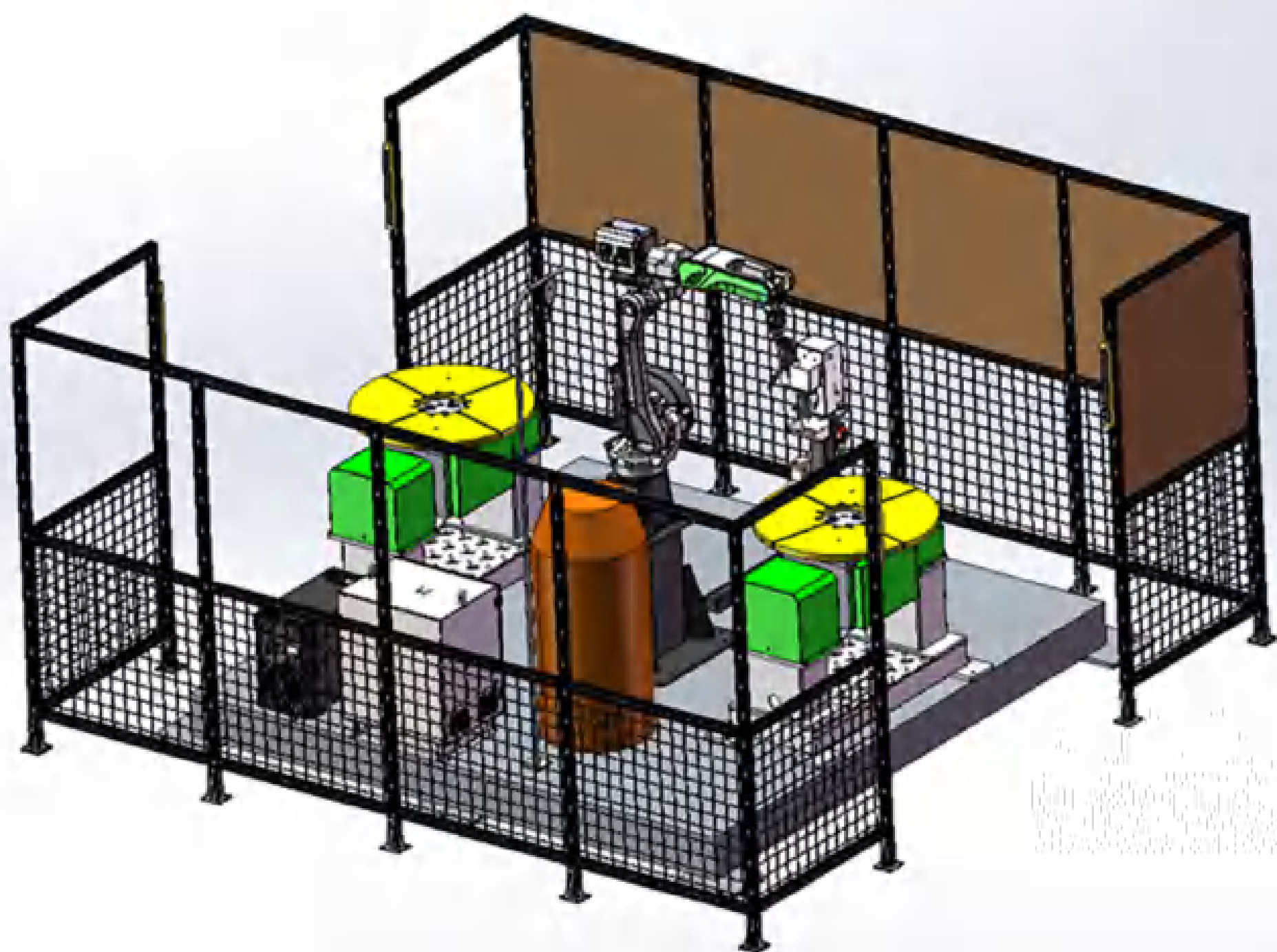
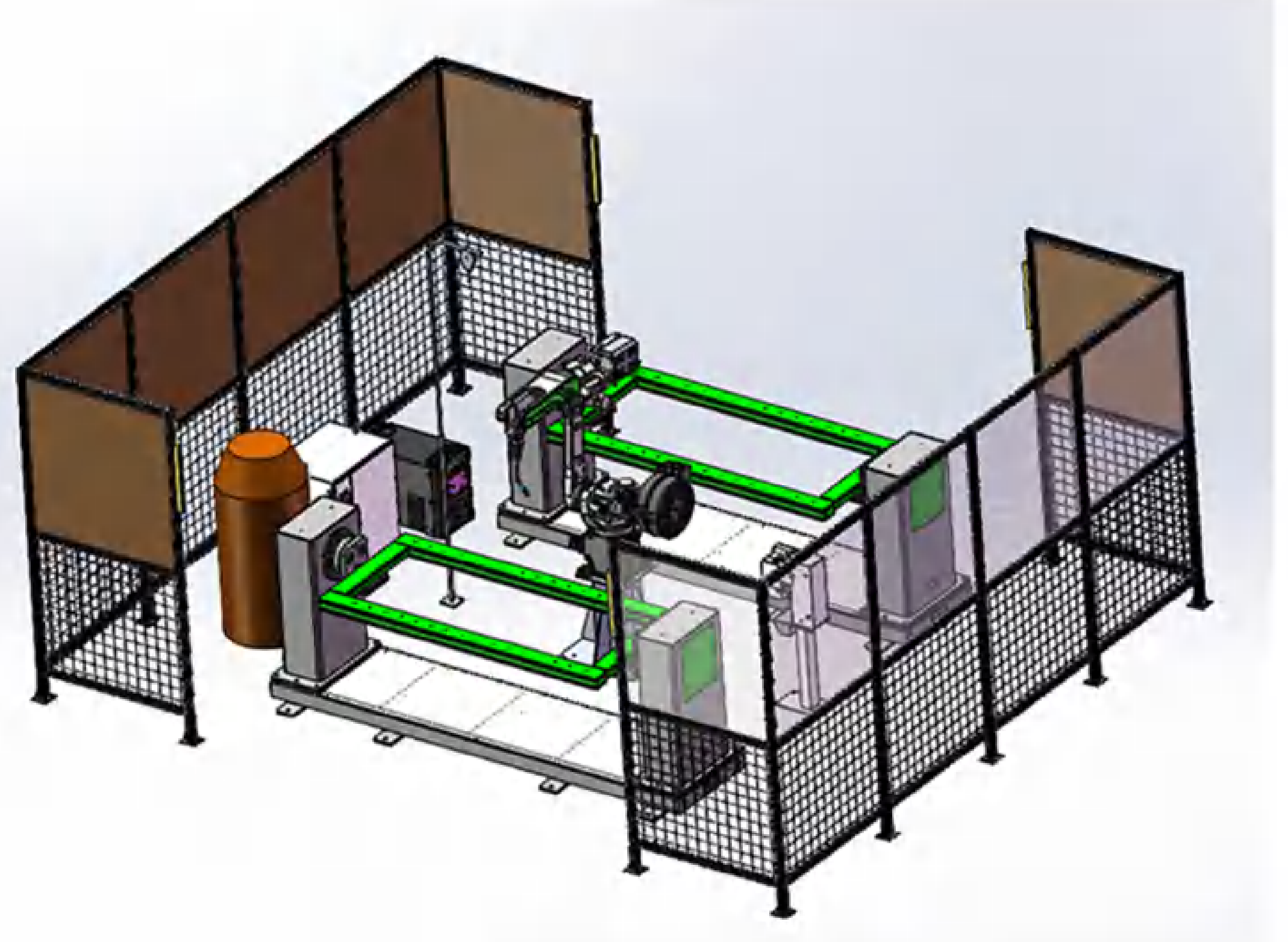
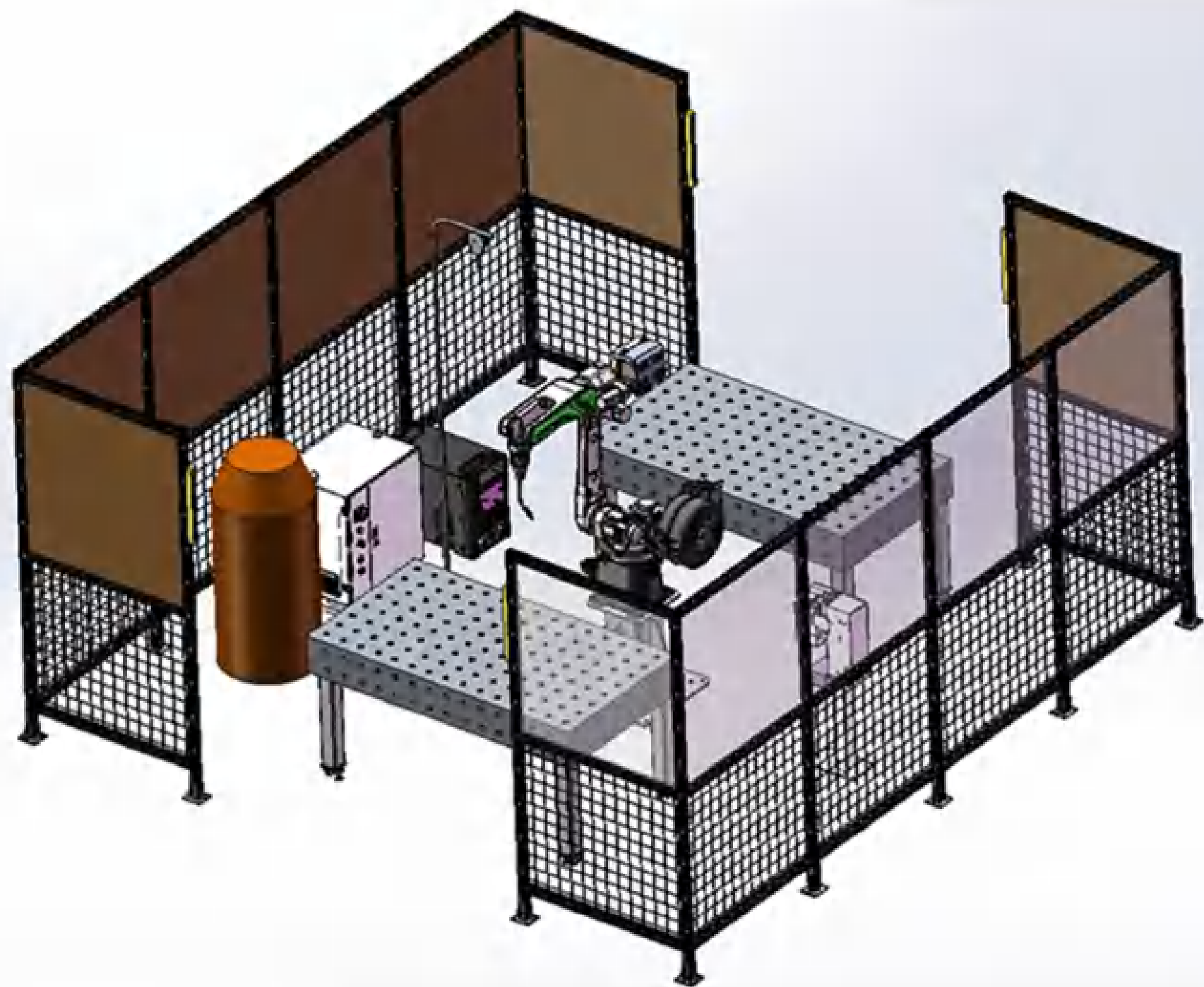
Appearance and installation Dimensions



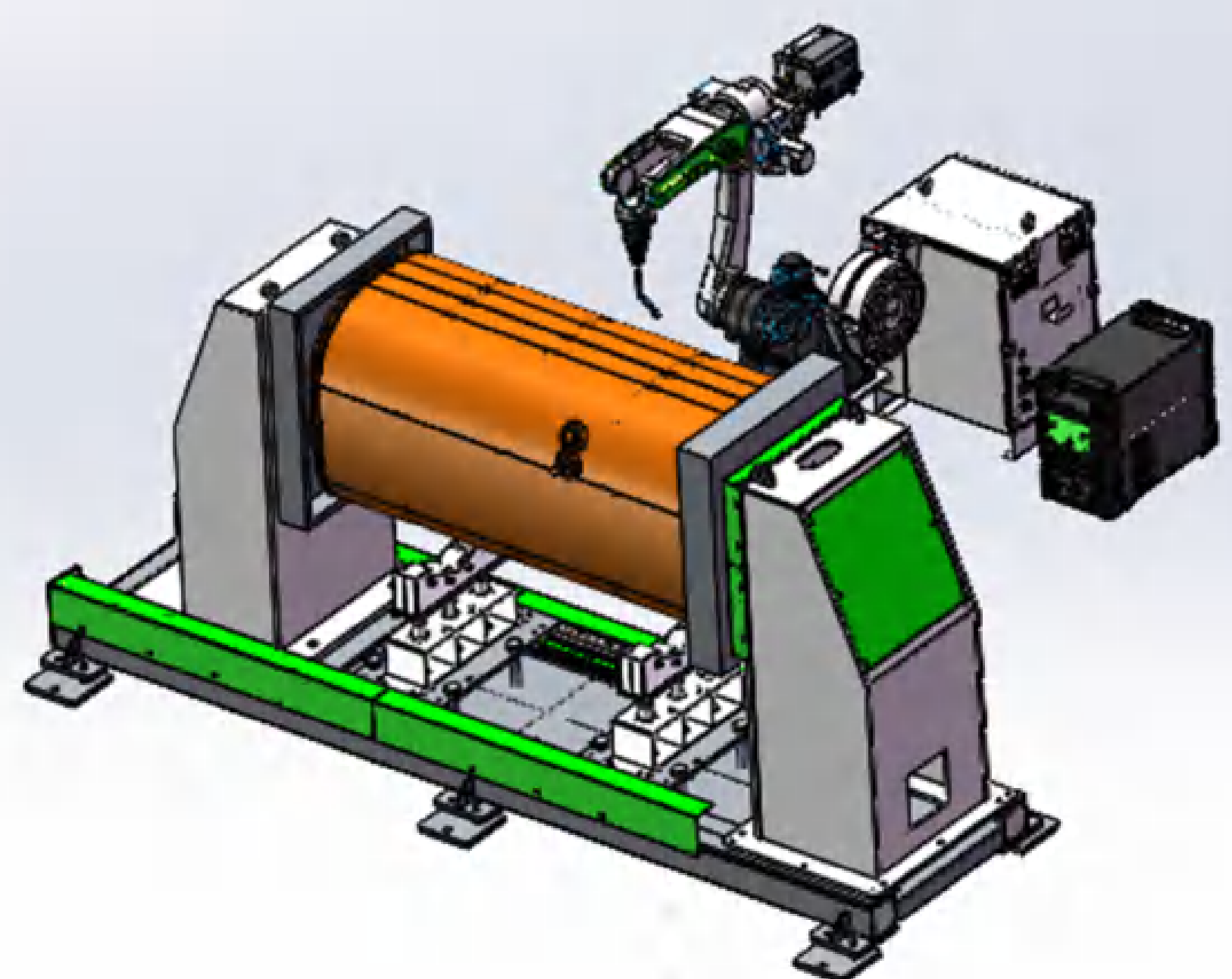
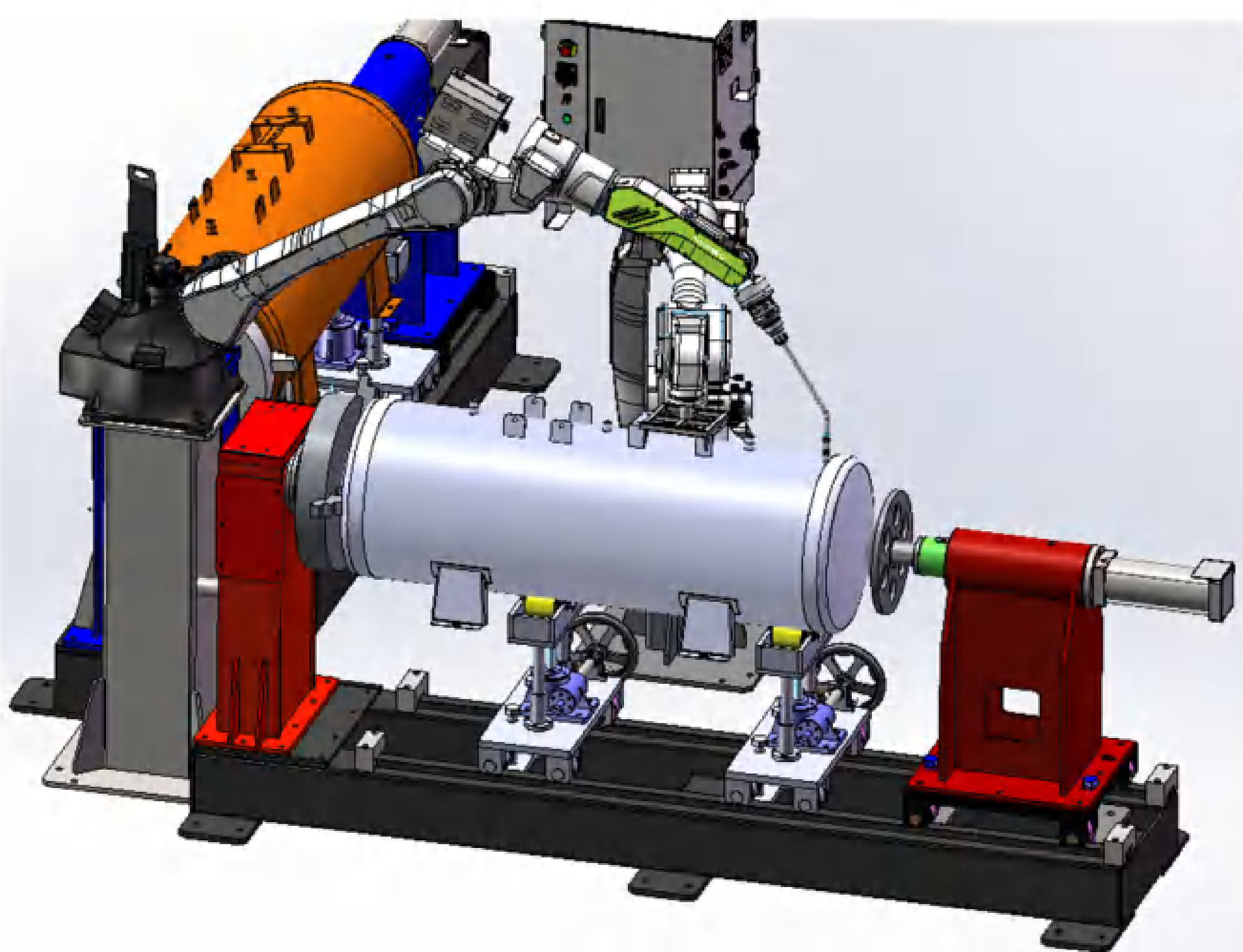
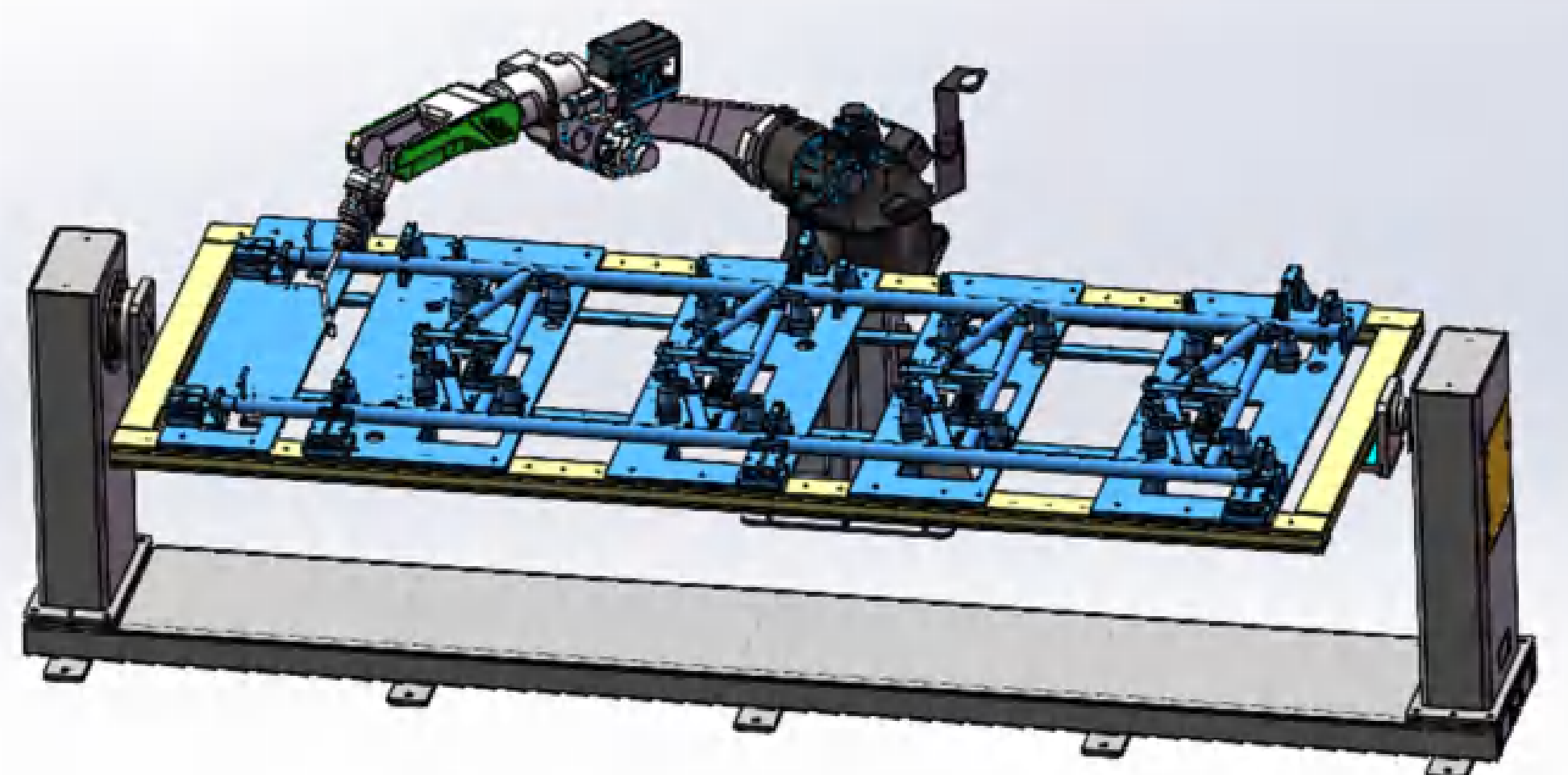
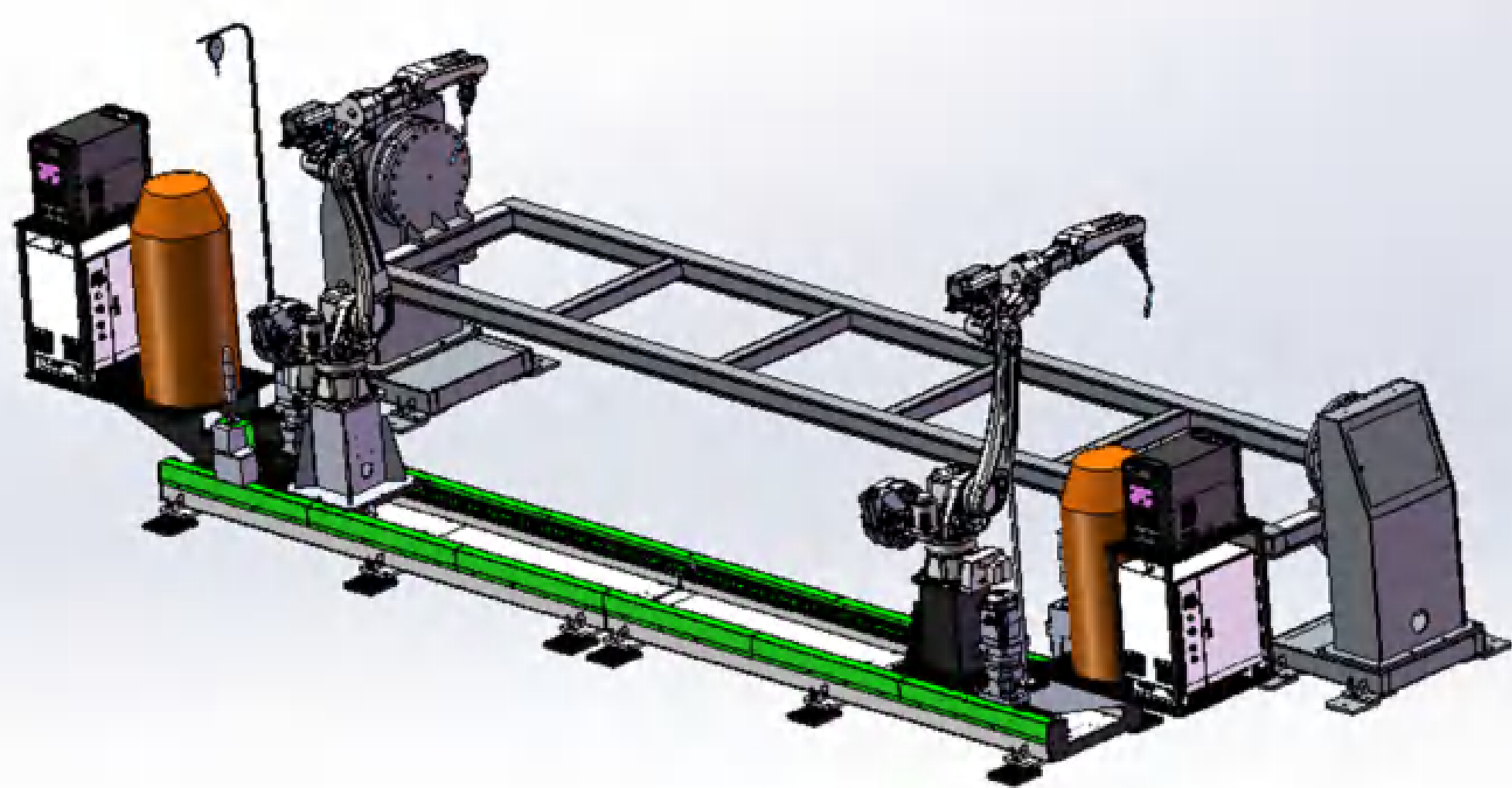
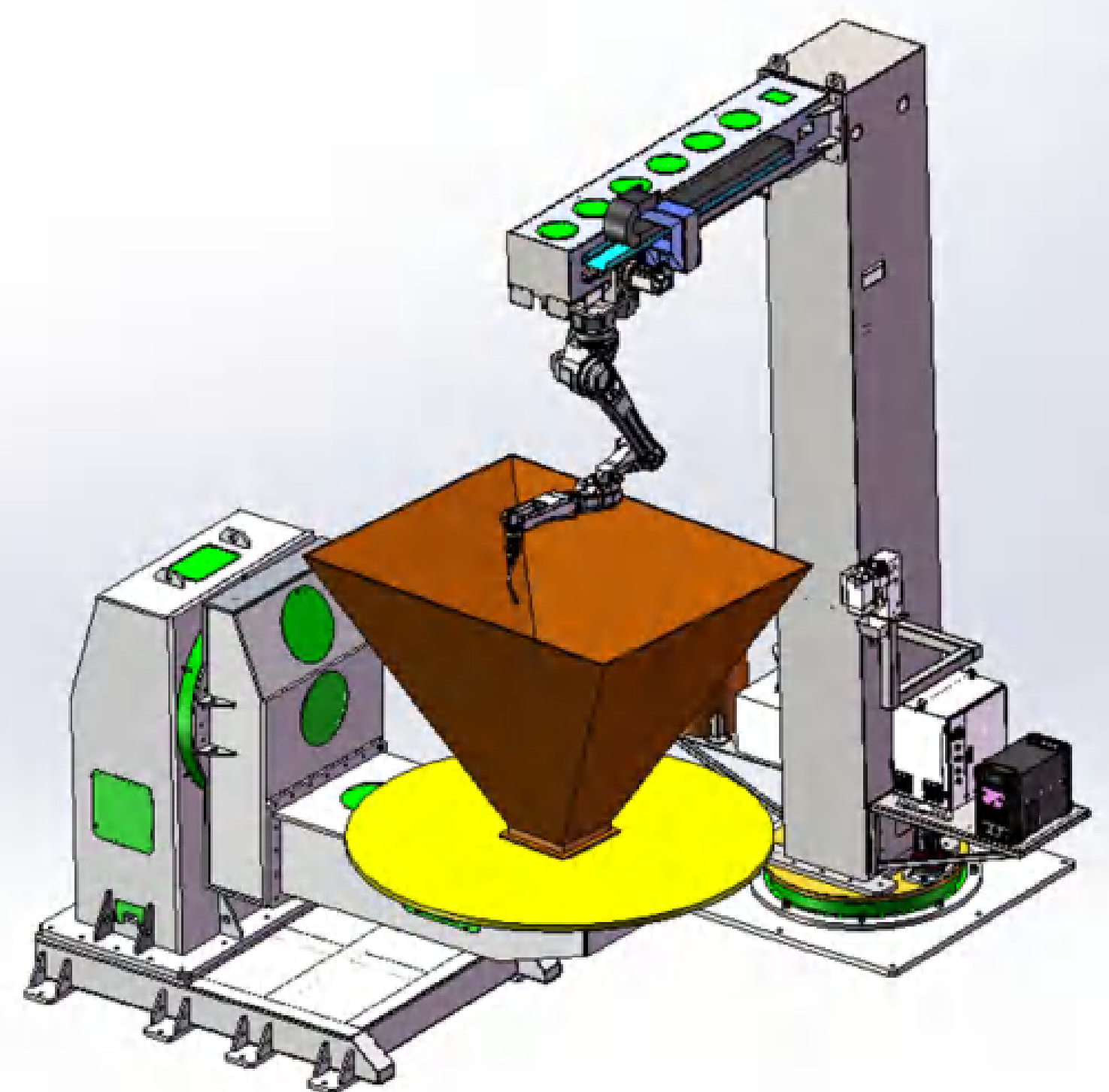
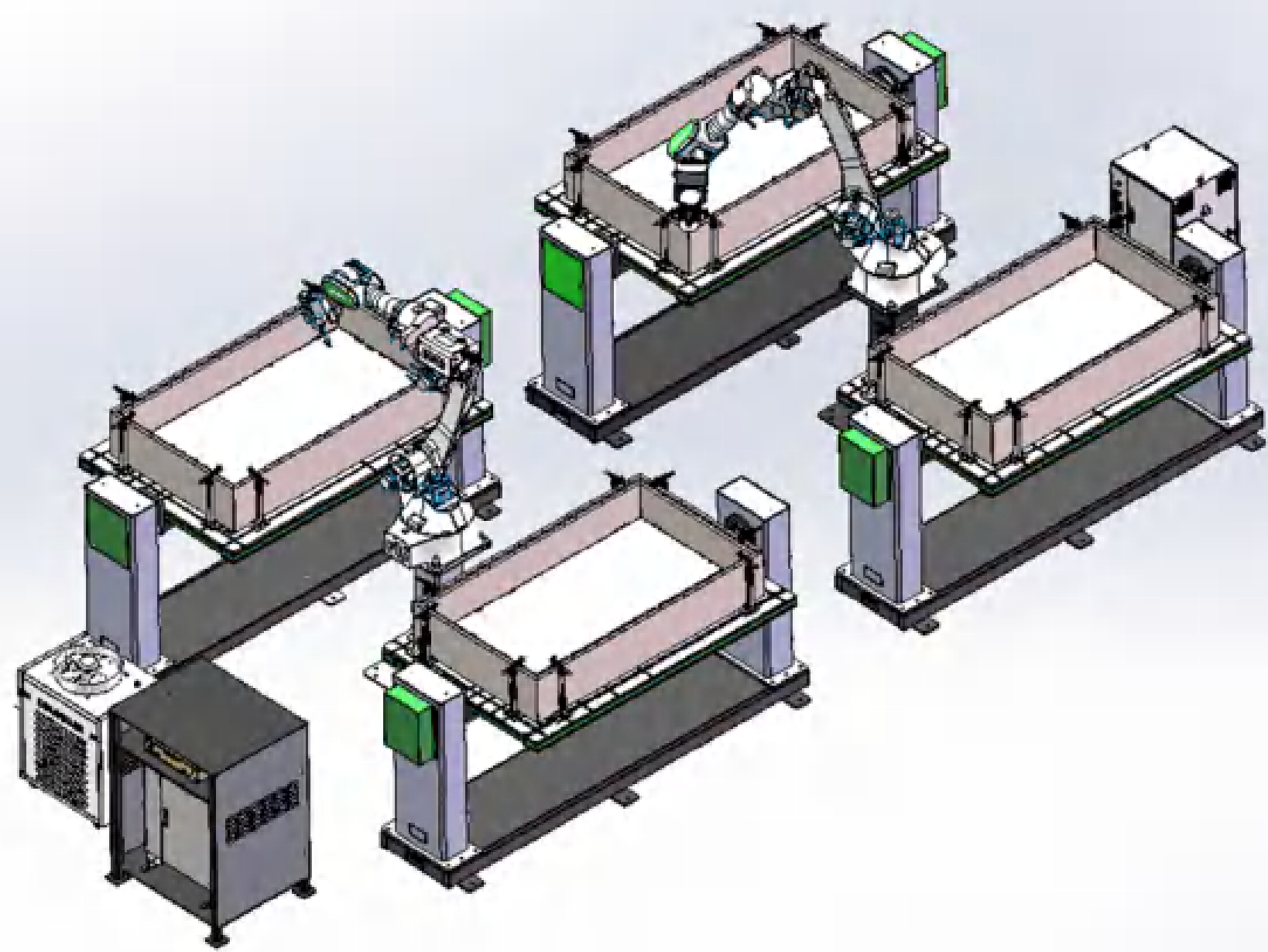
Origin Definition



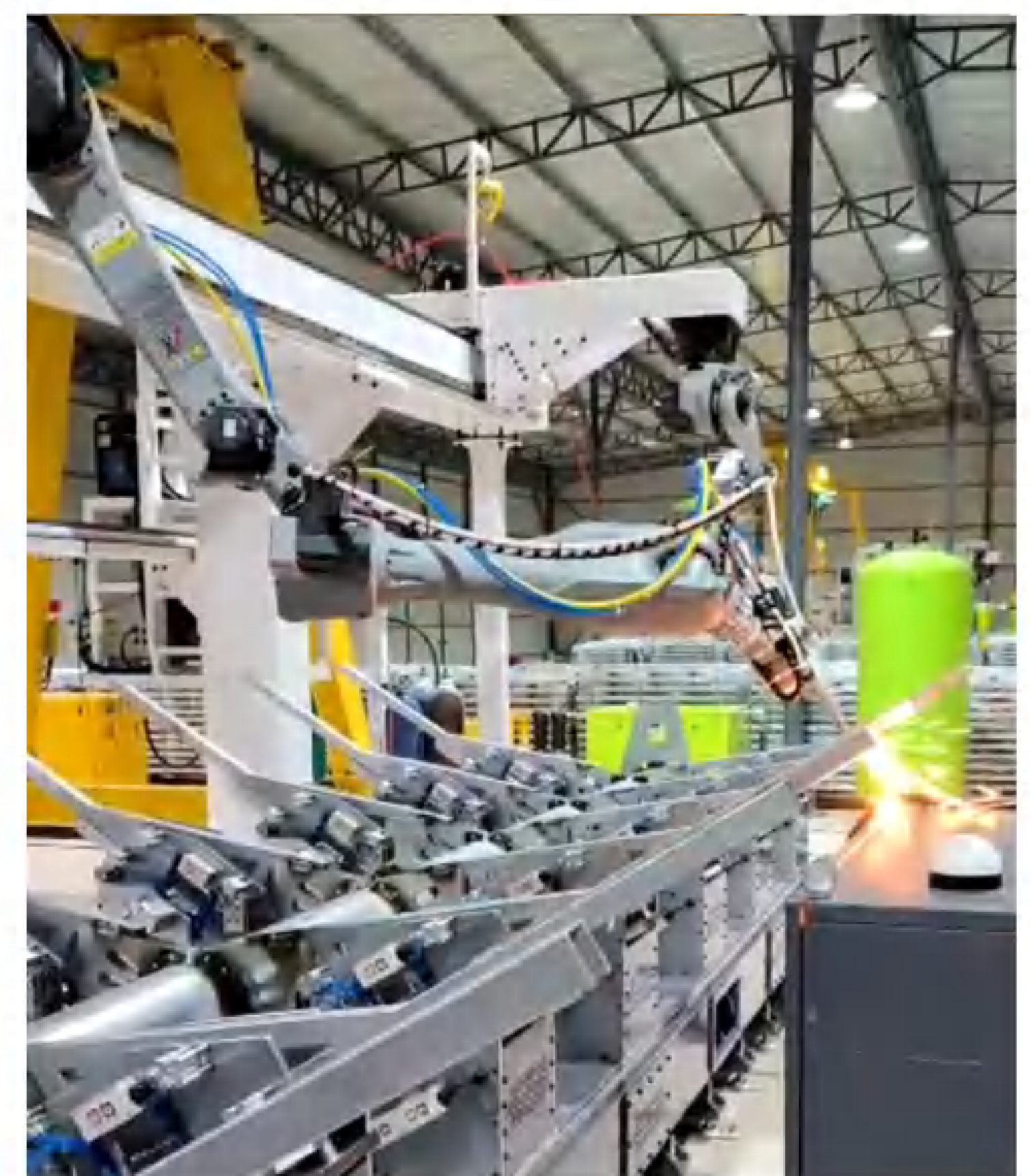
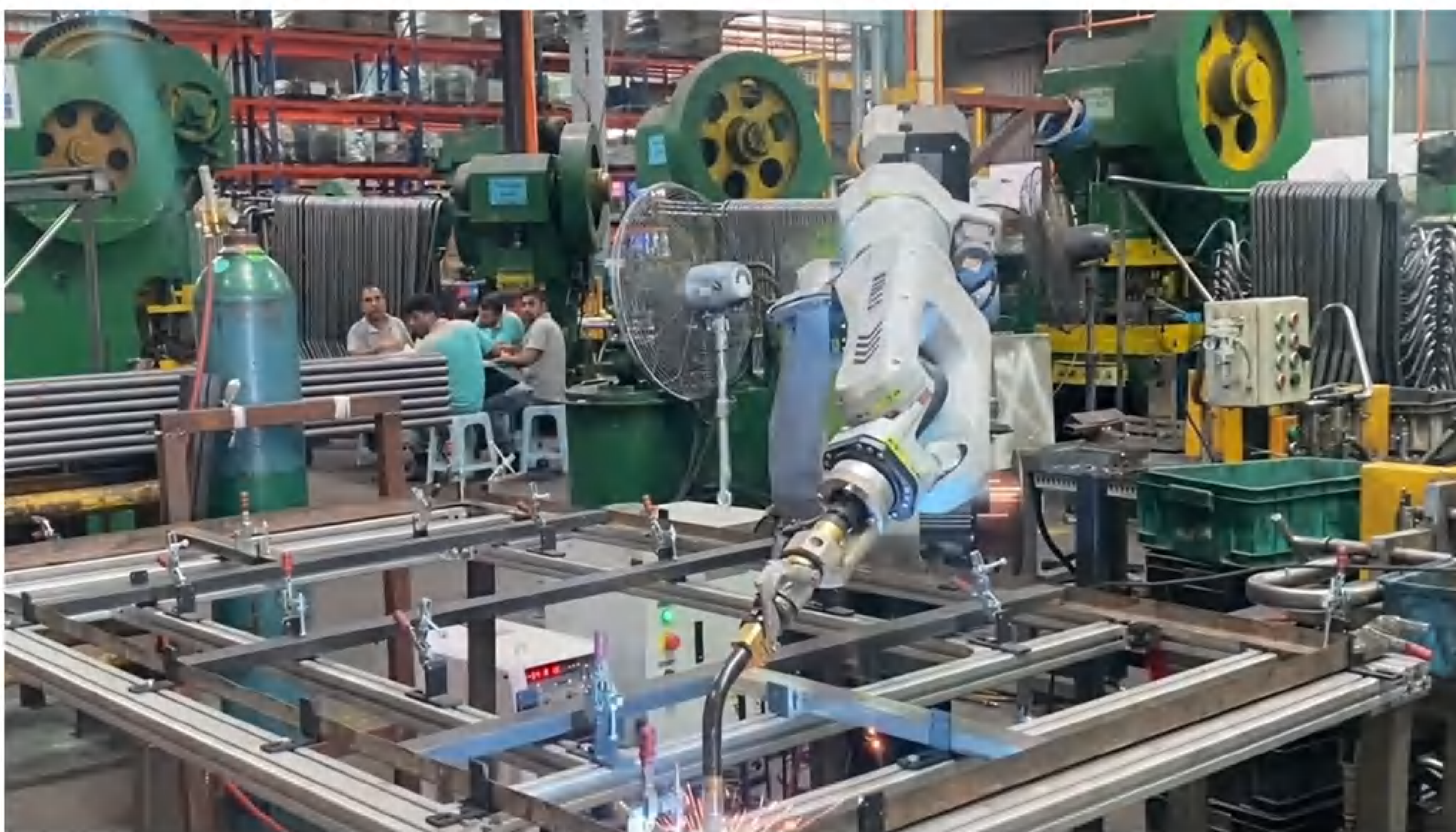
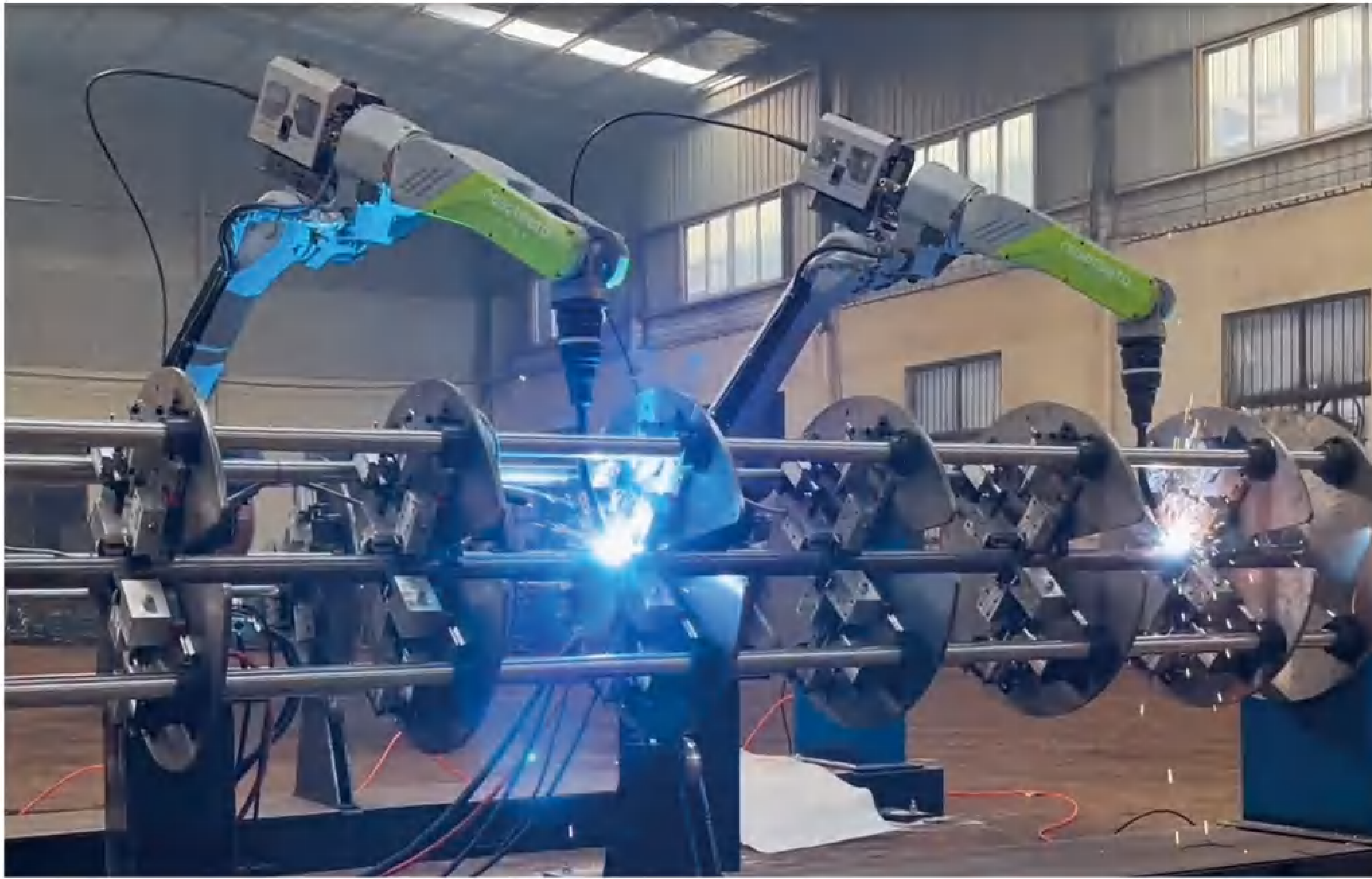
Robotic Cells with positioners



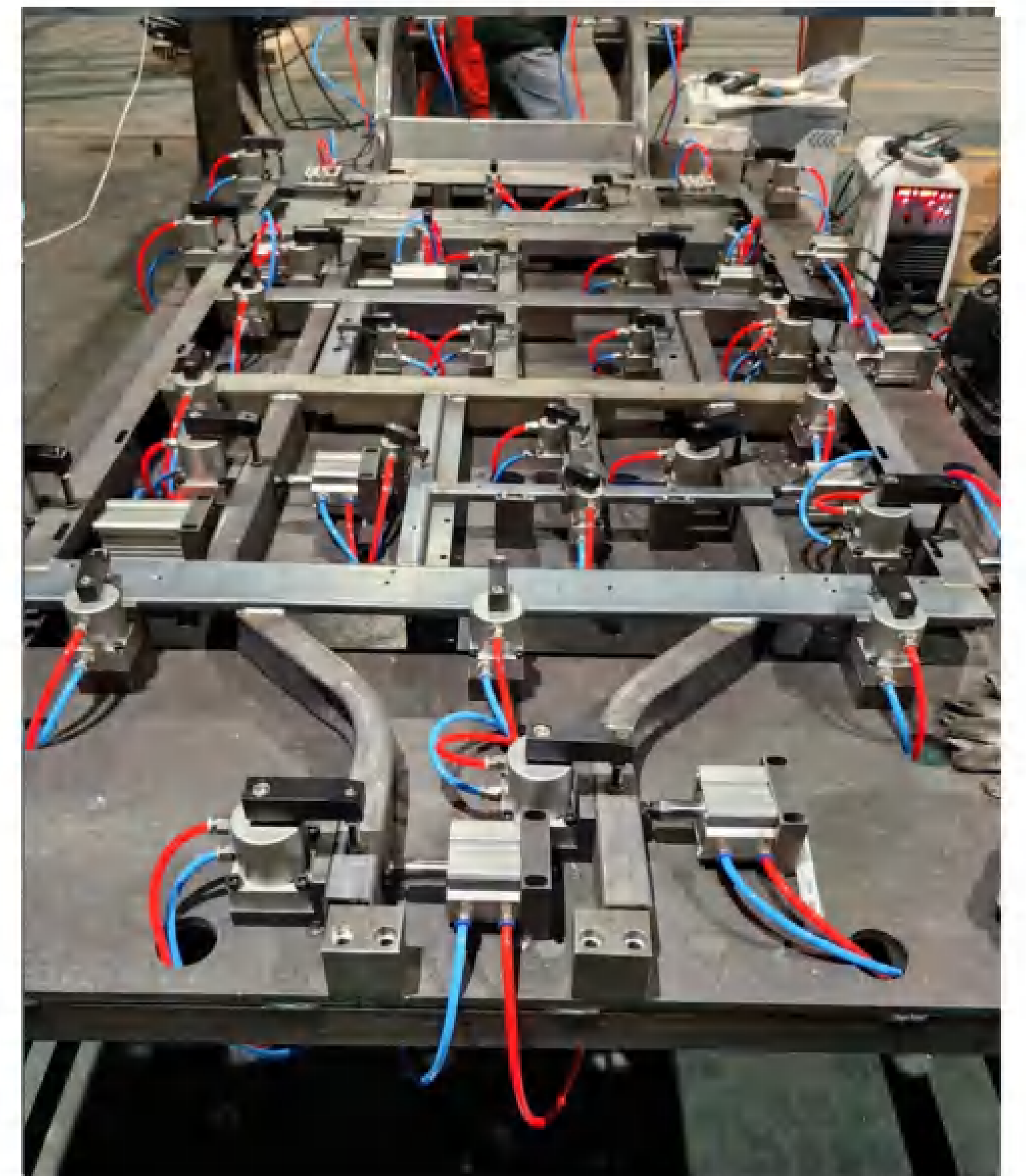
Robotic Cells with positioners



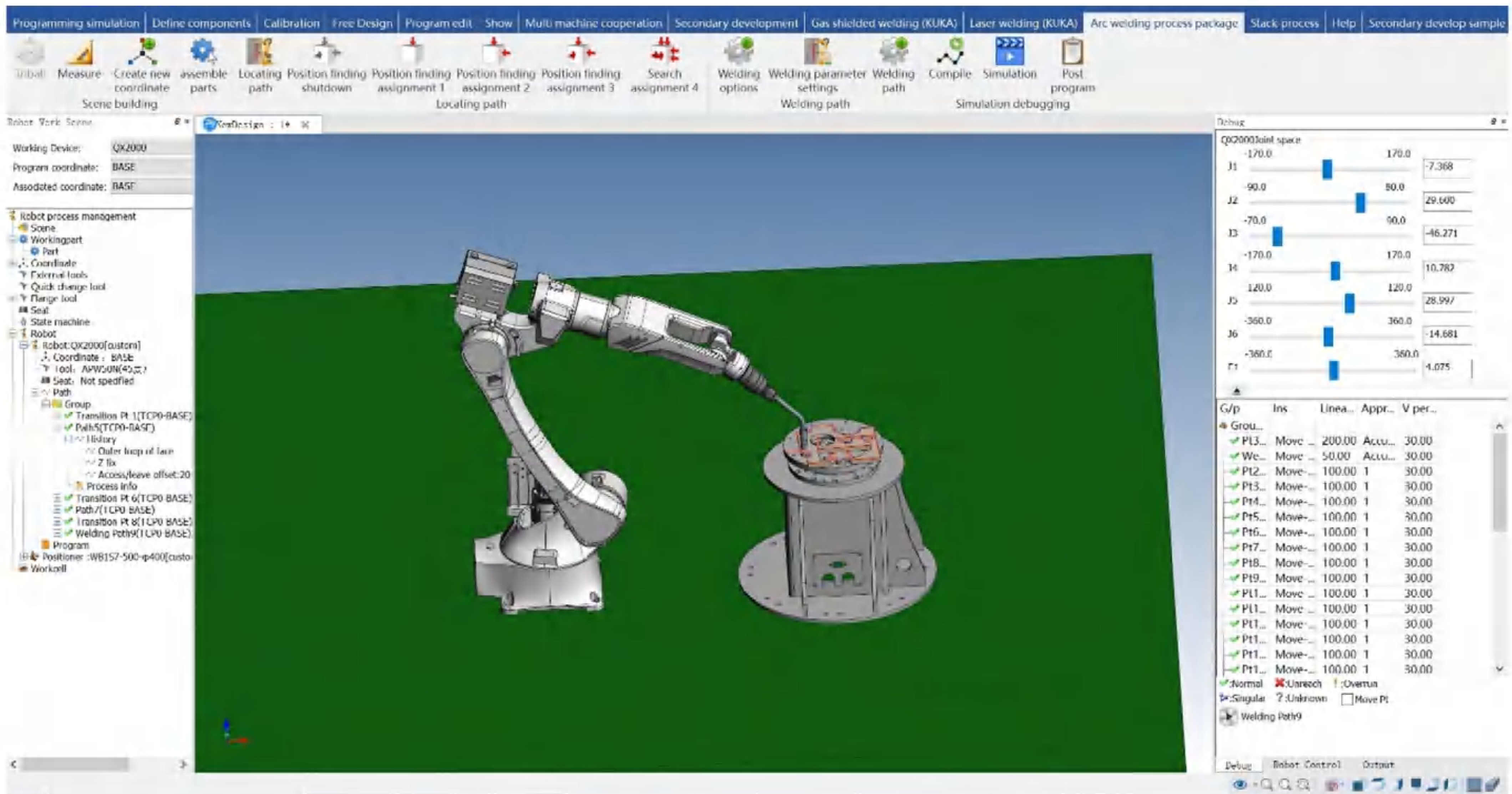
On-site photos



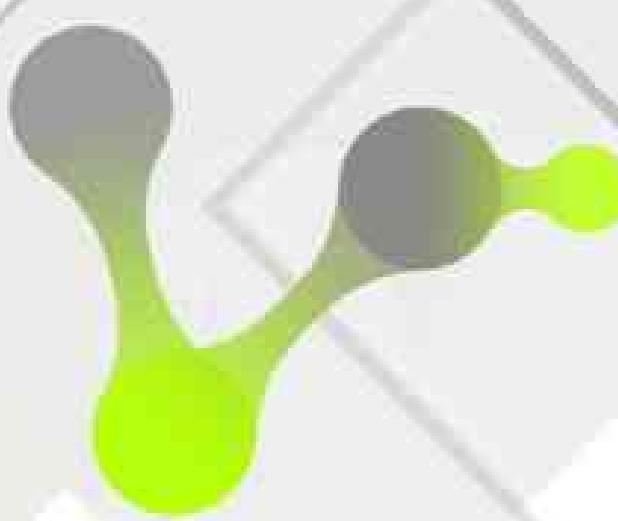
On-site photos



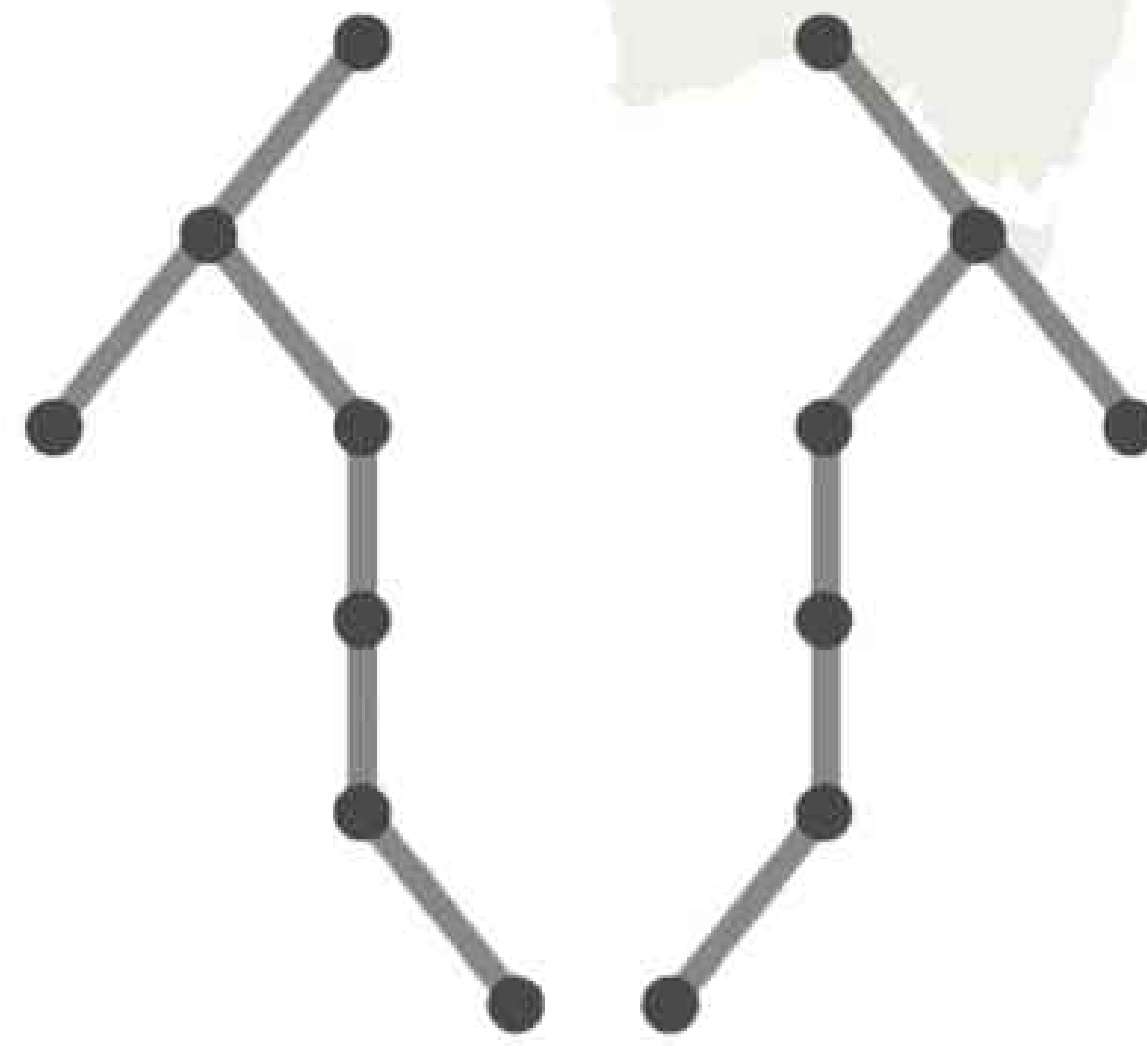
Simulation and Offline Programming Software



- Supporting project study with fast and animated simulation of welding stations, including robots, cobots, MIG/MAG systems, torches, positioners, track, etc, whose 3D files are built in or available from RobotMeta.
- Enabling design and concept optimization in layouts, working process for robotic welding projects.
- Path generation and editing. Nice categories of path generation methods, hundreds of path parameters and dozens of modification methods.
- Accessibility analysis, including welding torches, laser heads and other tools added to robot.
- Collision detection. Enabling designers to foresee potential risks on desktop and improve fixture design.
- Trajectory optimization. Key parameters such as axis limits, failure in accessibility, collision can be mirrored on the software and be avoided by dragging the mouse. It will allow rapid acquisition of better trajectory.
- External axis equipment, such as positioners and track are also supported.
- Configuration of laser sensor supported.



robotmeta



ROBOTMETA

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