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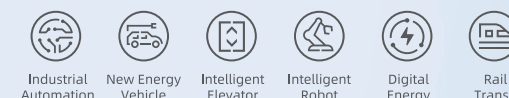
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INOVANCE

Inovance Robot Selection Guide



FORWARD, ALWAYS PROGRESSING

Robot Product Family

6-Axis Robot

IR-R4 Series	P 3	IR-R4H (Hollow Wrist)	P 5	IR-R7H (Hollow Wrist)	P 7	IR-R11 Series	P 9
							
Load	4 kg	Load	4 kg	Load	7kg	Load	10 kg / 11.3 kg
Arm length	560.6 mm	Arm length	545.7 mm	Arm length	722.3mm/911.9mm	Arm length	1101.6 mm / 901.9 mm
Model	IR-R4-56S-INT	Model	IR-R4H-54S-INT	Model	IR-R7H-70S-INT IR-R7H-90S-INT	Model	IR-R10-110S-INT IR-R11-90S-INT

IR-R10H (Hollow Wrist)	P 11	IR-R15H&R20H (Hollow Wrist)	P 13	IR-R10 Series	P 15	IR-R25 Series	P 17
							
Load	10kg	Load	15 kg/20 kg	Load	10 kg	Load	16kg/25kg
Arm length	1201.2mm	Arm length	1455 mm/1218 mm	Arm length	1422 mm	Arm length	2107mm/1783mm
Model	IR-R10H-120S-INT	Model	IR-R15H-145S-K-INT IR-R20H-120S-K-INT	Model	IR-R10-140S-INT	Model	IR-R16-210S-INT IR-R25-178S-INT

SCARA Robot

IR-S4 Series	P 19	IR-S7 Series	P 21	IR-S10 Series	P 23	IR-S25 Series	P 25
							
Load	4 kg	Load	7 kg	Load	10 kg	Load	25 kg
Arm length	400 mm	Arm length	500 mm / 600 mm / 700 mm	Arm length	600 mm / 700 mm / 800 mm	Arm length	800 mm / 1000 mm / 1200 mm
Model	IR-S4-40Z15S-INT	Model	IR-S7-50Z20S-INT IR-S7-60Z20S-INT IR-S7-70Z20S-INT	Model	IR-S10-60Z20S-INT IR-S10-70Z20S-INT IR-S10-80Z20S-INT	Model	IR-S25-80Z42S-INT IR-S25-100Z42S-INT IR-S25-120Z42S-INT

IR-TS5 Series	P 35
	
Load	5 kg
Arm length	550 mm
Model	IR-TS5-55Z15S-INT

IR-S35 Series	P 27	IR-S60 Series	P 29	IR-GS60 Series	P 31	IR-TS4 Series	P 33
							
Load	35kg	Load	60kg	Load	60kg	Load	4 kg
Arm length	800mm/1000mm	Arm length	1200mm	Arm length	1200mm	Arm length	350 mm
Model	IR-S35-80Z42S-INT IR-S35-100Z42S-INT IR-S35-120Z42S-INT	Model	IR-S60-120Z40S-INT	Model	IR-GS60-120Z40S-INT	Model	IR-TS4-35Z15S-INT

Robot Controller

IRCB501 Series	P 37	IRCB501 High protection Series	P 39
			

Teach pendant

IR-TP200 Series	P 41
	

6-Axis Robot

IR-R4 Series

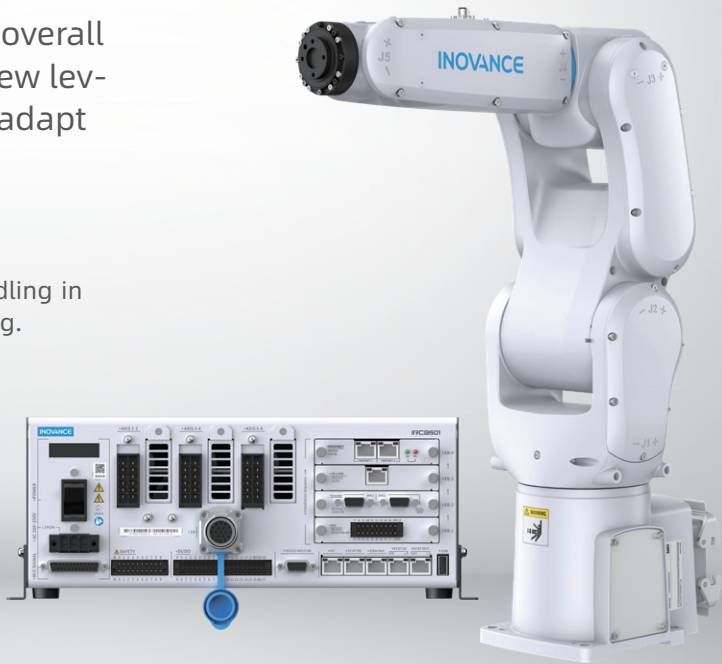
Robots featuring compact structure, with overall height and structural height reaching a new level in the industry, and short cycle time to adapt to a range of application scenarios.

Scope of Application

Handling and loading/unloading in 3C industry; handling in the photovoltaic industry; and assembly and dispensing.

Features

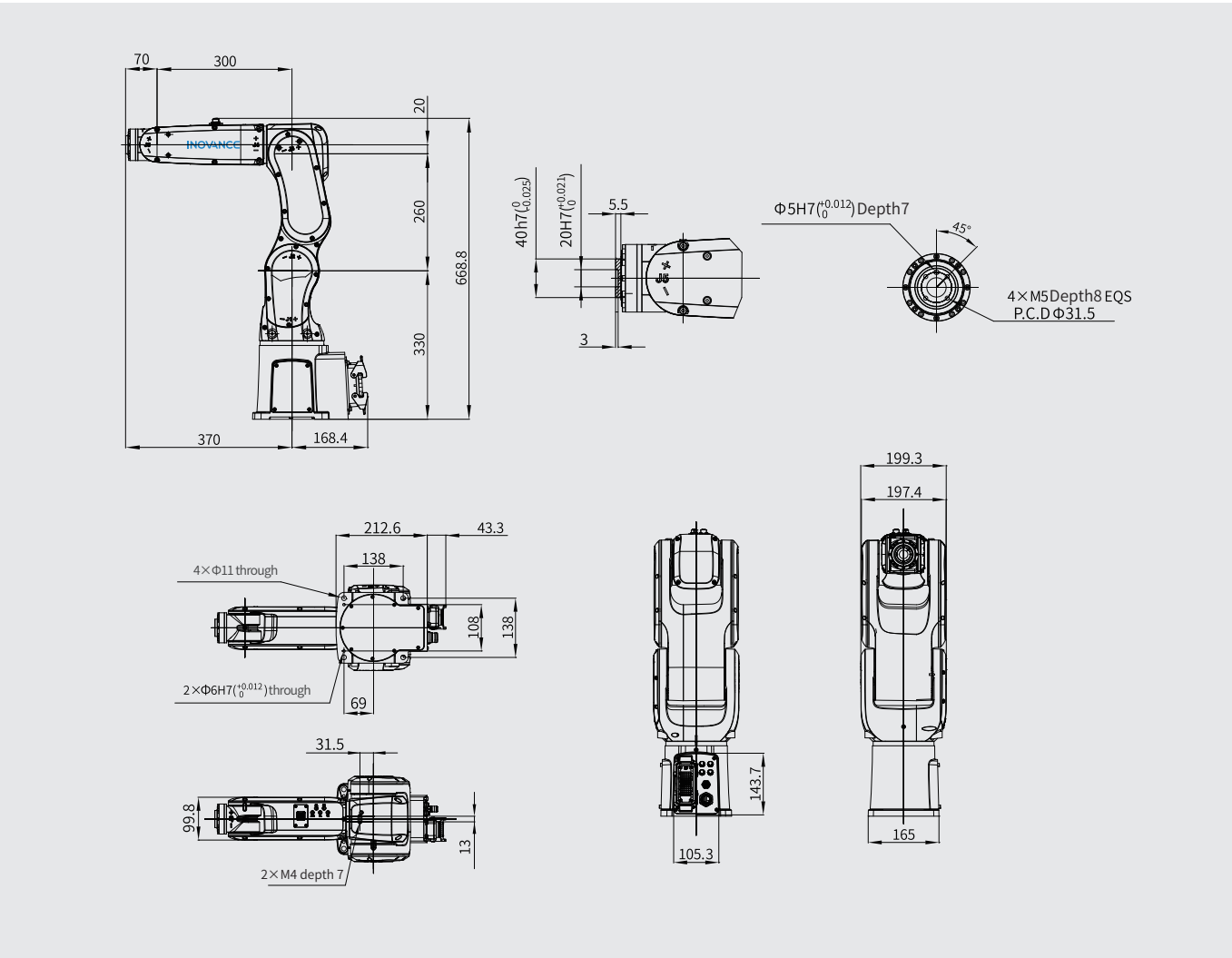
Load	4 kg
Arm length	560.6 mm
Repeatability	±0.01 mm
IP rating	IP40 (IP67 optional)



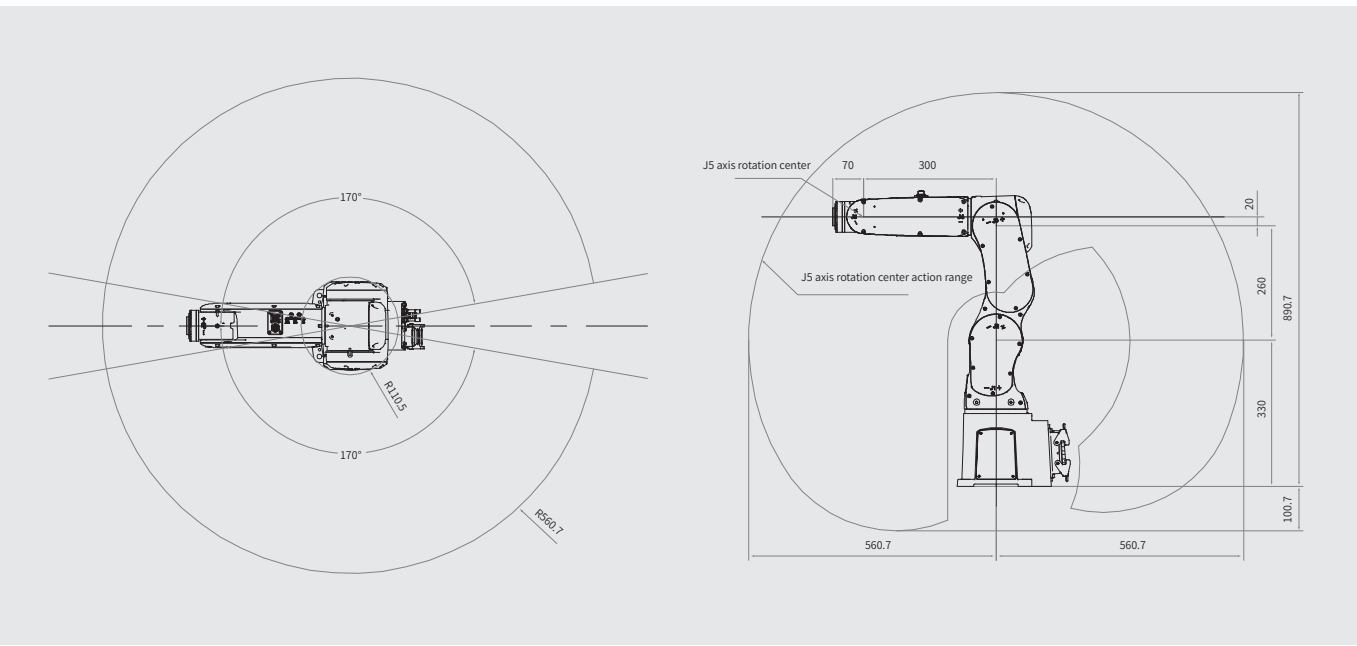
Technical Data

Model		IR-R4-56S-INT
Structural style		Vertical axis cascading structure
Number of Axes		6 axes
Maximum reach (mm)		560.6
Repeatability (mm)		±0.01
Maximum Load(kg)		4
IP rating		IP40 (IP67 optional)
Max.Speed	J1 (°/s)	450
	J2 (°/s)	460
	J3 (°/s)	520
	J4 (°/s)	560
	J5 (°/s)	560
	J6 (°/s)	900
Maxi-mummotion range	J1 (°)	±170
	J2 (°)	-120~+110
	J3 (°)	-69~+205
	J4 (°)	±190
	J5 (°)	±120
	J6 (°)	±360
Allowed wrist torque	J4 (N·m)	8.86
	J5 (N·m)	8.86
	J6 (N·m)	4.9
Allowed wrist inertia	J4 (N·m)	0.2
	J5 (N·m)	0.2
	J6 (N·m)	0.067
Customer connections	Wiring	12 signal lines 30V 0.5A
	Air	Φ4 mm × 4, 0.59 Mpa
Operating conditions	Ambient temperature(°C)	0~45
	Relative humidity	5% to 95% RH(non-condensing)
	Maximum Temperature Gradient(°C/min)	1.5
Shipment Conditions	Ambient temperature(°C)	0~45
	Relative humidity	≤ 95% RH,non-condensing
Storage Conditions	Ambient temperature(°C)	-10~55
	Relative humidity	≤ 95% RH,non-condensing
Cable	Stand:5m optional: 3m/10m/15m/High Flexible(3m/5m/10m/15m)	
Weight	24kg	
Controller	IRCB501-6LD-INT	
Mounting mode	Floor mounted/Ceiling mounted/Wall mounted	
Certification	Kcs, KC, CE, cSGSus, FCC, Safety Function, Optional: Cleanliness Class 3	

Mounting Dimensions(mm)



Motion Range(mm)



6-Axis Robot

IR-R7H (Hollow wrist)

Designed with hollow wrist structure, compact, lightweight and flexible, high tempo, efficient and easy to use; Meet the needs of various scenarios such as handling, assembly, and gluing

Scope of Application

It is widely used in dispensing, assembly, sorting, labeling and other scenarios in 3C, automotive electronics, medical, pharmaceutical and other industries.

Features

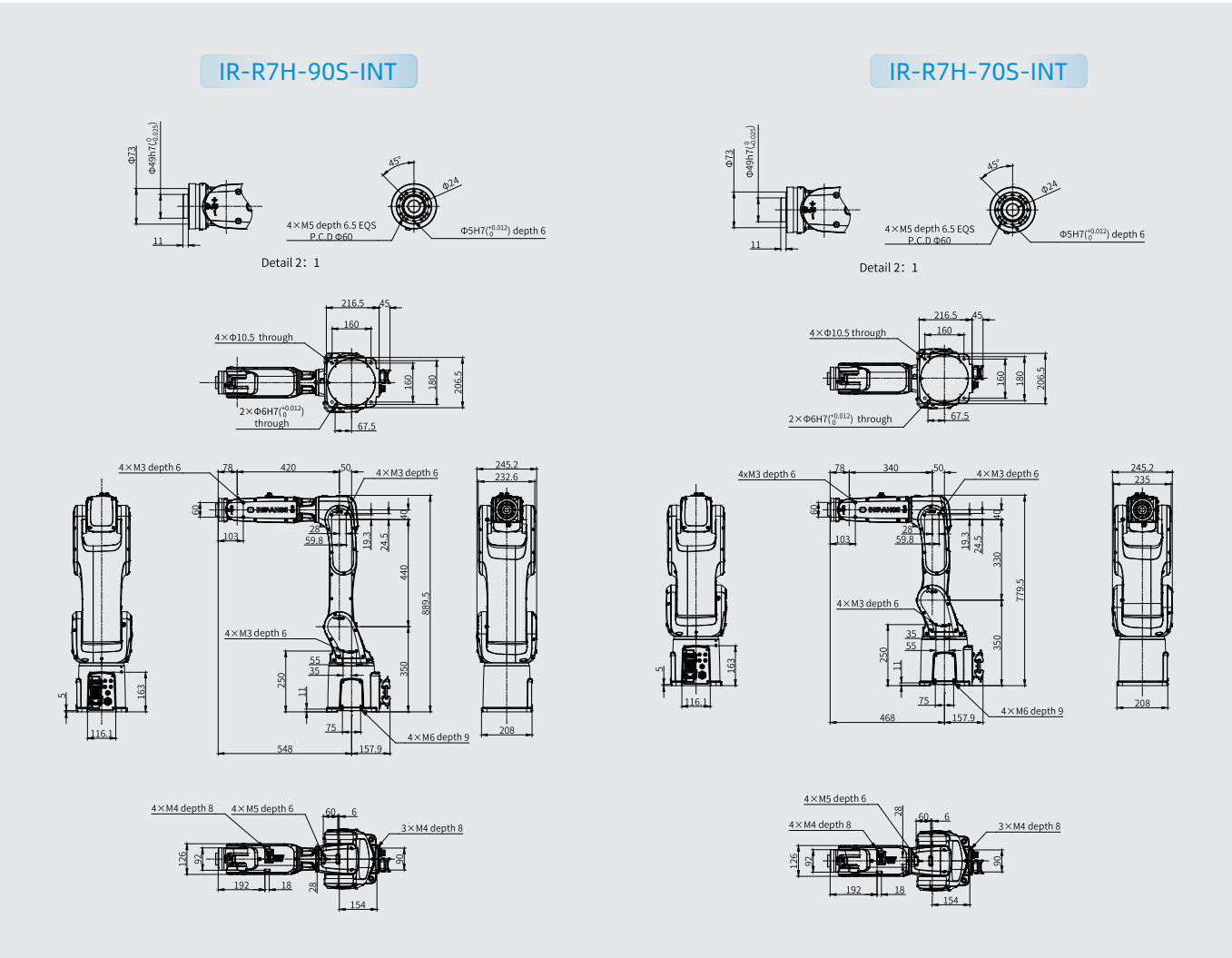
Load	7kg
Arm length	722.3mm/911.9mm
Repeatability	±0.015mm/±0.02mm
IP rating	IP40 (IP67 optional)



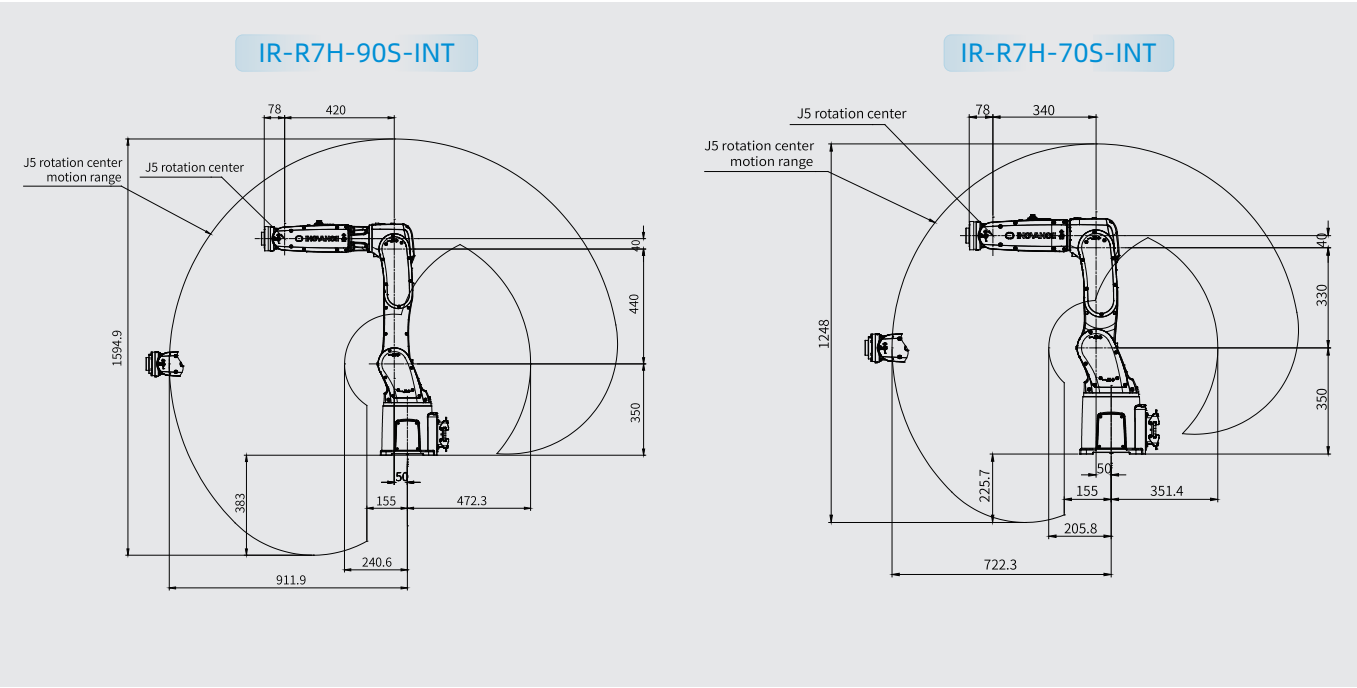
Technical Data

Model		IR-R7H-70S-INT	IR-R7H-90S-INT
Structural style		Vertical axis cascading structure	Vertical axis cascading structure
Number of Axes		6 axes	6 axes
Maximum reach (mm)		722.3	911.9
Repeatability (mm)		±0.015	±0.02
Maximum Load (kg)		7	7
IP rating		IP40 (IP67 optional)	IP40 (IP67 optional)
Max.Speed	J1 (°/s)	420	336
	J2 (°/s)	336	280
	J3 (°/s)	487.5	390
	J4 (°/s)	550	550
	J5 (°/s)	438	438
	J6 (°/s)	764.7	764.7
Maxi-mummotion range	J1 (°)	±170	±170
	J2 (°)	-135~+80	-125~+80
	J3 (°)	-70~+190	-70~+190
	J4 (°)	±190	±190
	J5 (°)	±120	±120
	J6 (°)	±360	±360
Allowed wrist torque	J4 (N·m)	16.9	16.9
	J5 (N·m)	16.9	16.9
	J6 (N·m)	9.4	9.4
Allowed wrist inertia	J4 (N·m)	0.49	0.49
	J5 (N·m)	0.49	0.49
	J6 (N·m)	0.15	0.15
Customer connections	Wiring	17 signal lines 30V 0.5A	17 signal lines 30V 0.5A
	Air	Φ4 mm × 4, 0.59 Mpa	Φ4 mm × 4, 0.59 Mpa
Operating conditions	Ambient temperature(°C)	0~45	0~45
	Relative humidity	5% to 95% RH(non-condensing)	5% to 95% RH(non-condensing)
	Maximum Temperature Gradient(°C/min)	1.5	1.5
Shipment Conditions	Ambient temperature(°C)	0~45	0~45
	Relative humidity	≤ 95% RH,non-condensing	≤ 95% RH,non-condensing
	Ambient temperature(°C)	-10~55	-10~55
Storage Conditions	Ambient temperature(°C)	-10~55	-10~55
	Relative humidity	≤ 95% RH,non-condensing	≤ 95% RH,non-condensing
Cable		Stand:5m optional: 3m/10m/15m/High Flexible(3m/5m/10m/15m)	
Weight		31kg	33kg
Controller		IRCB501-6LD-INT	IRCB501-6LD-INT
Mounting mode		Floor mounted/Ceiling mounted/Wall mounted	
Certification		Kcs, KC, CE, cSGSus, FCC,Safety Function, Optional: Cleanliness Class 3	

Mounting Dimensions(mm)



Motion Range(mm)



6-Axis Robot

IR-R11 Series

Robots featuring compact structure, with overall height and structural height reaching a new level in the industry, and short cycle time to adapt to a range of application scenarios.

Scope of Application

Handling and loading/unloading in 3C industry; handling in the photovoltaic industry; and assembly and dispensing.

Features

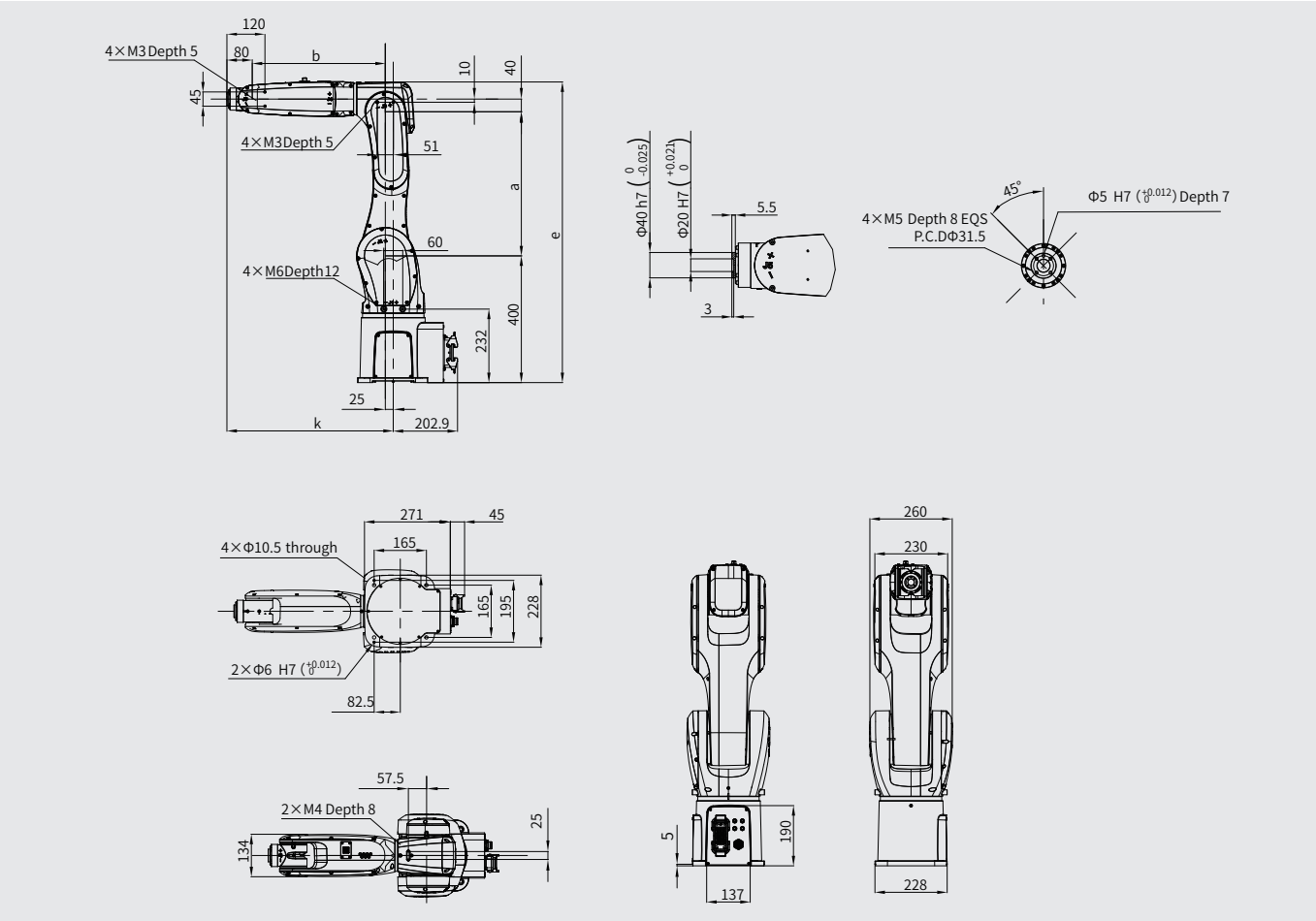
Load	10 kg / 11.3 kg
Arm length	1101.6 mm / 901.9 mm
Repeatability	±0.02 mm
IP rating	IP40 (IP67 optional)



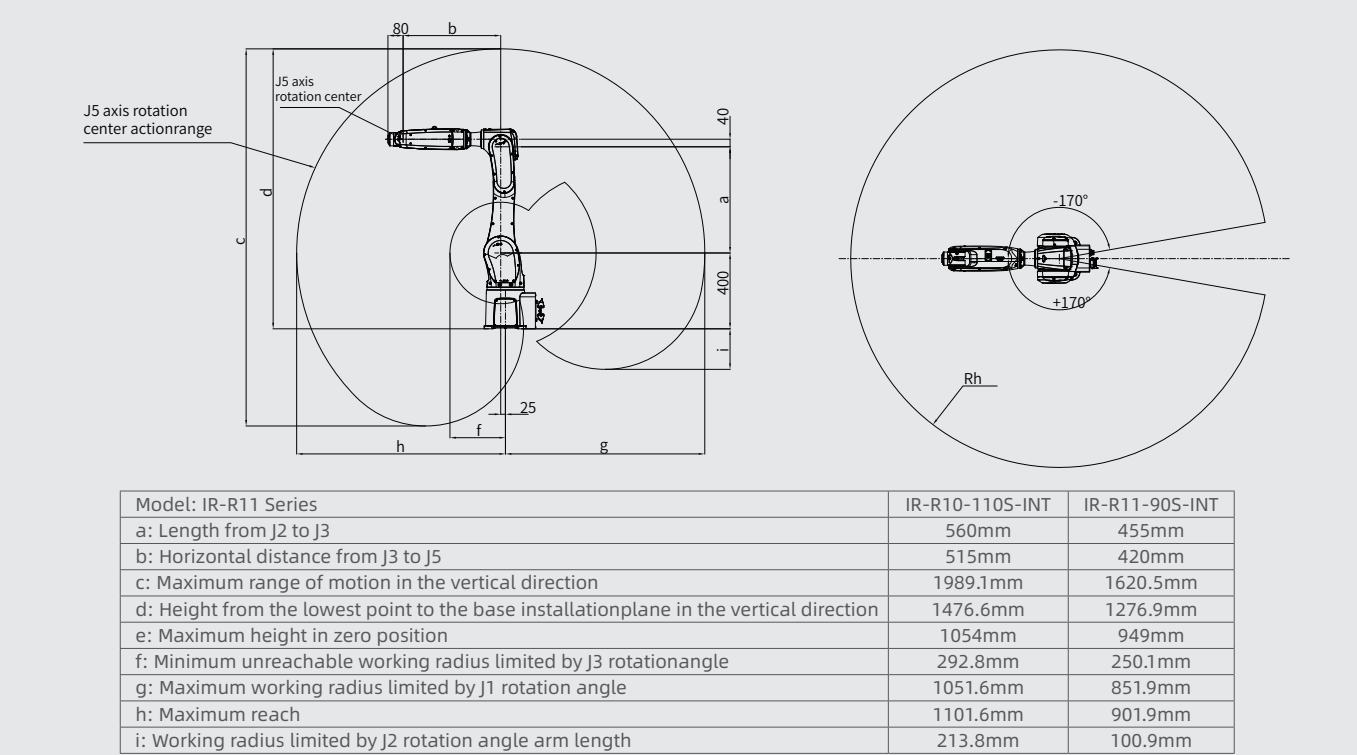
Technical Data

Model		IR-R11-90S-INT	IR-R10-110S-INT
Structural style		Vertical axis cascading structure	Vertical axis cascading structure
Number of Axes		6 axes	6 axes
Maximum reach (mm)		901.9	1101.6
Repeatability (mm)		±0.02	±0.02
Maximum Load (kg)		11.3	10
IP rating		IP40 (IP67 optional)	IP40 (IP67 optional)
Max.Speed	J1 (° / s)	240	240
	J2 (° / s)	180	180
	J3 (° / s)	330	330
	J4 (° / s)	450	450
	J5 (° / s)	420	420
	J6 (° / s)	720	720
Maxi-mummotion range	J1 (°)	±170	±170
	J2 (°)	-135~+100	-135~+100
	J3 (°)	-66~+210	-66~+210
	J4 (°)	±190	±190
	J5 (°)	±125	±125
	J6 (°)	±360	±360
Allowed wrist torque	J4 (N·m)	20.45	18.59
	J5 (N·m)	20.45	18.59
	J6 (N·m)	10.8	9.8
Allowed wrist inertia	J4 (N·m)	0.6	0.6
	J5 (N·m)	0.6	0.6
	J6 (N·m)	0.2	0.2
Customer connections	Wiring	12 signal lines 30V 0.5A	12 signal lines 30V 0.5A
	Air	Φ4 mm × 4, 0.59 Mpa	Φ4 mm × 4, 0.59 Mpa
Operating conditions	Ambient temperature(° C)	0~45	0~45
	Relative humidity	5% to 95% RH(non-condensing)	5% to 95% RH(non-condensing)
	Maximum Temperature Gradient(° C/min)	1.5	1.5
Shipment Conditions	Ambient temperature(°C)	0~45	0~45
	Relative humidity	≤ 95% RH,non-condensing	≤ 95% RH,non-condensing
	Ambient temperature(°C)	-10~55	-10~55
Storage Conditions	Ambient temperature(°C)	-10~55	-10~55
	Relative humidity	≤ 95% RH,non-condensing	≤ 95% RH,non-condensing
Cable		Stand:5m optional: 3m/10m/15m/High Flexible(3m/5m/10m/15m)	
Weight		45kg	48kg
Controller		IRCB501-6FD-INT	IRCB501-6FD-INT
Mounting mode		Floor mounted/Ceiling mounted/Wall mounted	
Certification		Kcs, KC, CE, cSGSus, FCC, Safety Function, Optional: Cleanliness Class 3	

Mounting Dimensions(mm)



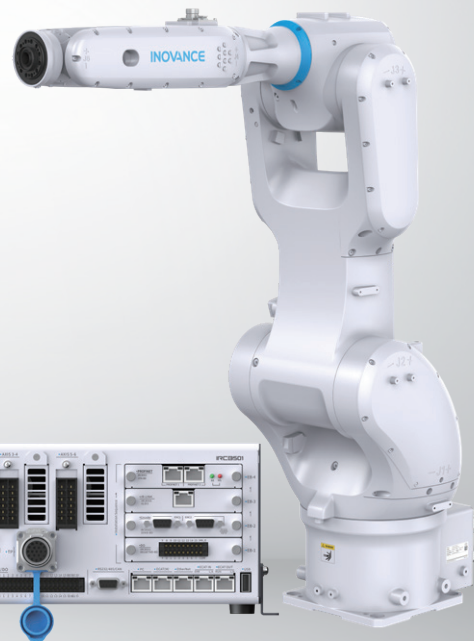
Motion Range(mm)



6-Axis Robot

IR-R15H & R20H (Hollow wrist)

The IR-R15H&R20H series six-axis robots feature compact design for optimal space utilization; they offer world-class precision and speed, ensuring precise and stable operations that are fast and accurate. With high-strength protection, convenient wiring expansion, and quick zero-point recovery on site in 15 minutes, they are easy to use and maintain.



Scope of Application

Suitable for display, photovoltaic, PCB, and other industries, applicable for material handling, assembly, transportation, sorting, cutting, dispensing, and sealing applications.

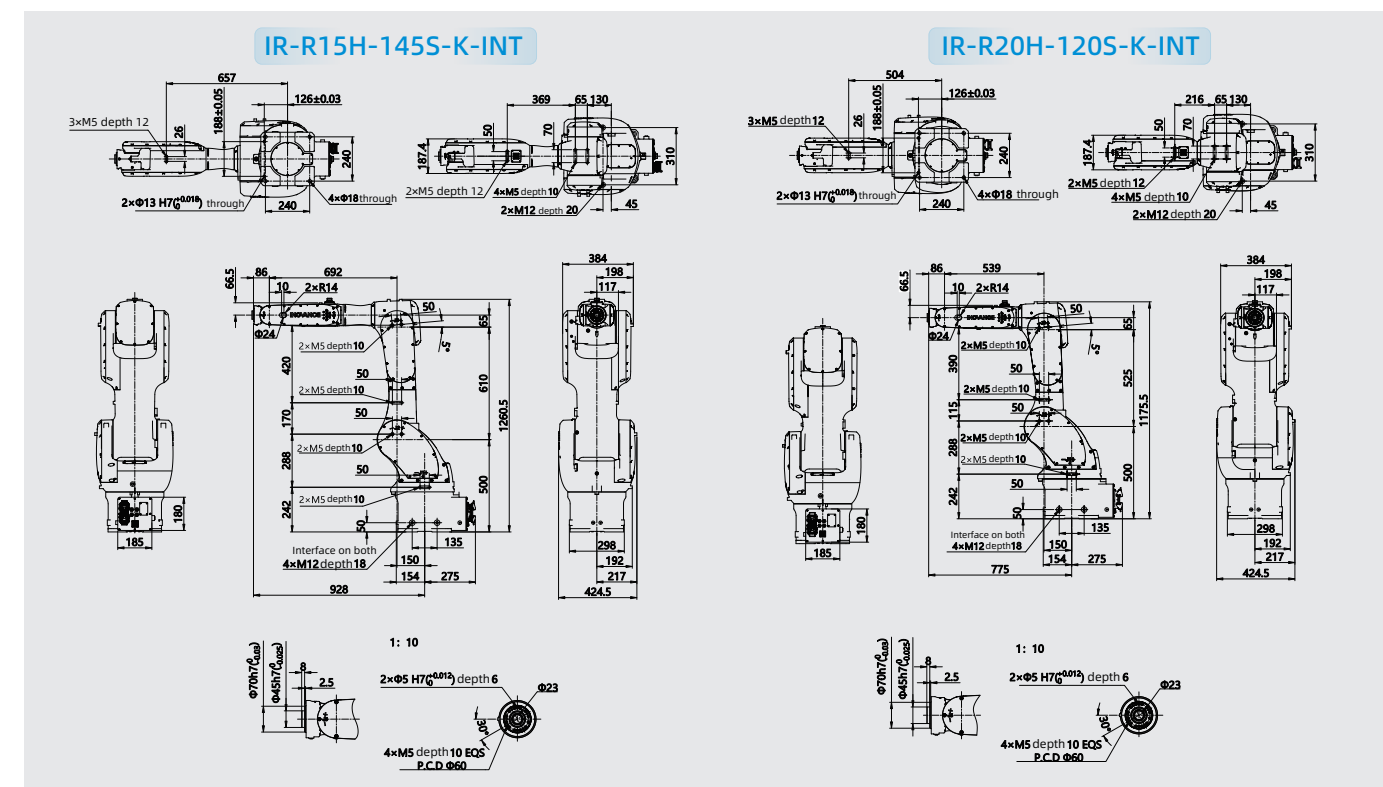
Product features

load	15 kg/20 kg
Arm length	1455 mm/1218 mm
Repeatability	±0.04 mm
IP rating	IP54 (IP67 optional)

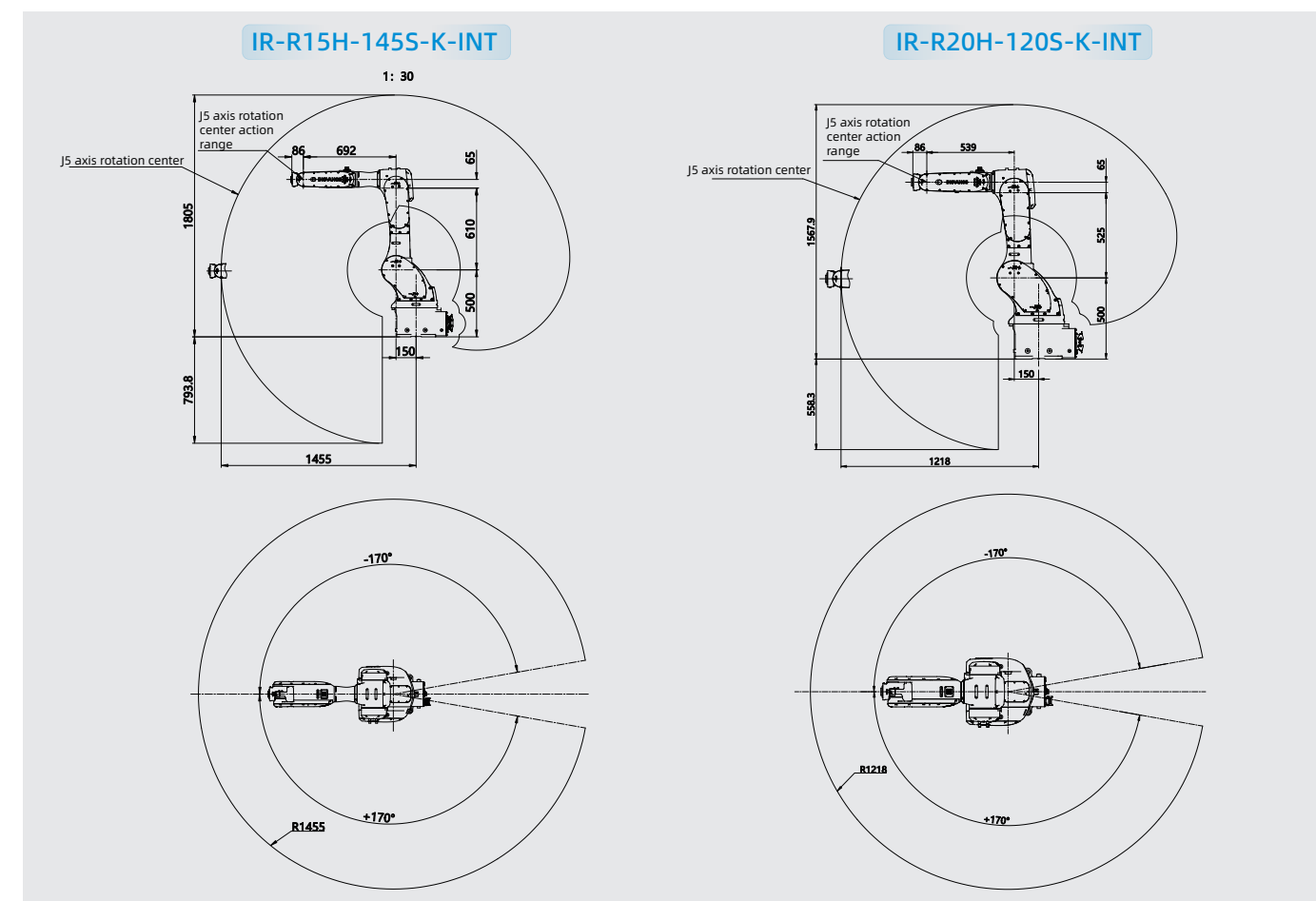
Technical Data

Model		IR-R15H-145S-K-INT	IR-R20H-120S-K-INT
Structural style		Vertical axis cascading structure	Vertical axis cascading structure
Number of Axes		6 axes	6 axes
Maximum reach (mm)		1455	1218
Repeatability (mm)		±0.04	±0.04
Maximum Load (kg)		15	20
IP rating		IP40(IP67 optional)	IP40(IP67 optional)
Max.Speed	J1 (° /s)	260	260
	J2 (° /s)	240	240
	J3 (° /s)	260	260
	J4 (° /s)	470	470
	J5 (° /s)	450	450
	J6 (° /s)	705	705
Maxi-mummotion range	J1 (°)	±170	±170
	J2 (°)	-160~+90	-160~+90
	J3 (°)	-76~+210	-76~+210
	J4 (°)	±190	±190
	J5 (°)	±140	±140
	J6 (°)	±360	±360
Allowed wrist torque	J4 (N·m)	26.5	35
	J5 (N·m)	26.5	35
	J6 (N·m)	12	20
Allowed wrist inertia	J4 (N·m)	0.9	1
	J5 (N·m)	0.9	1
	J6 (N·m)	0.3	0.4
Customer connections	Wiring	24 signal lines 30V 0.5A	24 signal lines 30V 0.5A
	Air	Φ6 mm × 4, 0.59 Mpa	Φ6 mm × 4, 0.59 Mpa
Operating conditions	Ambient temperature(° C)	0~45	0~45
	Relative humidity	5% to 95% RH(non-condensing)	5% to 95% RH(non-condensing)
	Maximum Temperature Gradient(° C/min)	1.5	1.5
Shipment Conditions	Ambient temperature(°C)	0~45	0~45
	Relative humidity	≤ 95% RH,non-condensing	≤ 95% RH,non-condensing
Storage Conditions	Ambient temperature(°C)	-10~55	-10~55
	Relative humidity	≤ 95% RH,non-condensing	≤ 95% RH,non-condensing
Cable		Stand:5m optional: 3m/10m/15m/High Flexible(3m/5m/10m/15m)	
Weight		155kg	150kg
Controller		IRCB501-6KD-INT	IRCB501-6KD-INT
Mounting mode		Floor mounted/Ceiling mounted/Wall mounted	
Certification		Kcs, KC, CE,cSGSus,FCC,Safety Function , Optional: Cleanliness Class 4	

Mounting Dimensions(mm)



Motion Range (mm)



6-Axis Robot

IR-R10 Series

Aesthetically designed robots with high motion speed and rigidity, together with dedicated motor and controller, providing customers with cost-effective solutions.

Scope of Application

Handling, machine loading/unloading, dispensing, deburring, grinding, polishing, welding, and more.

Features

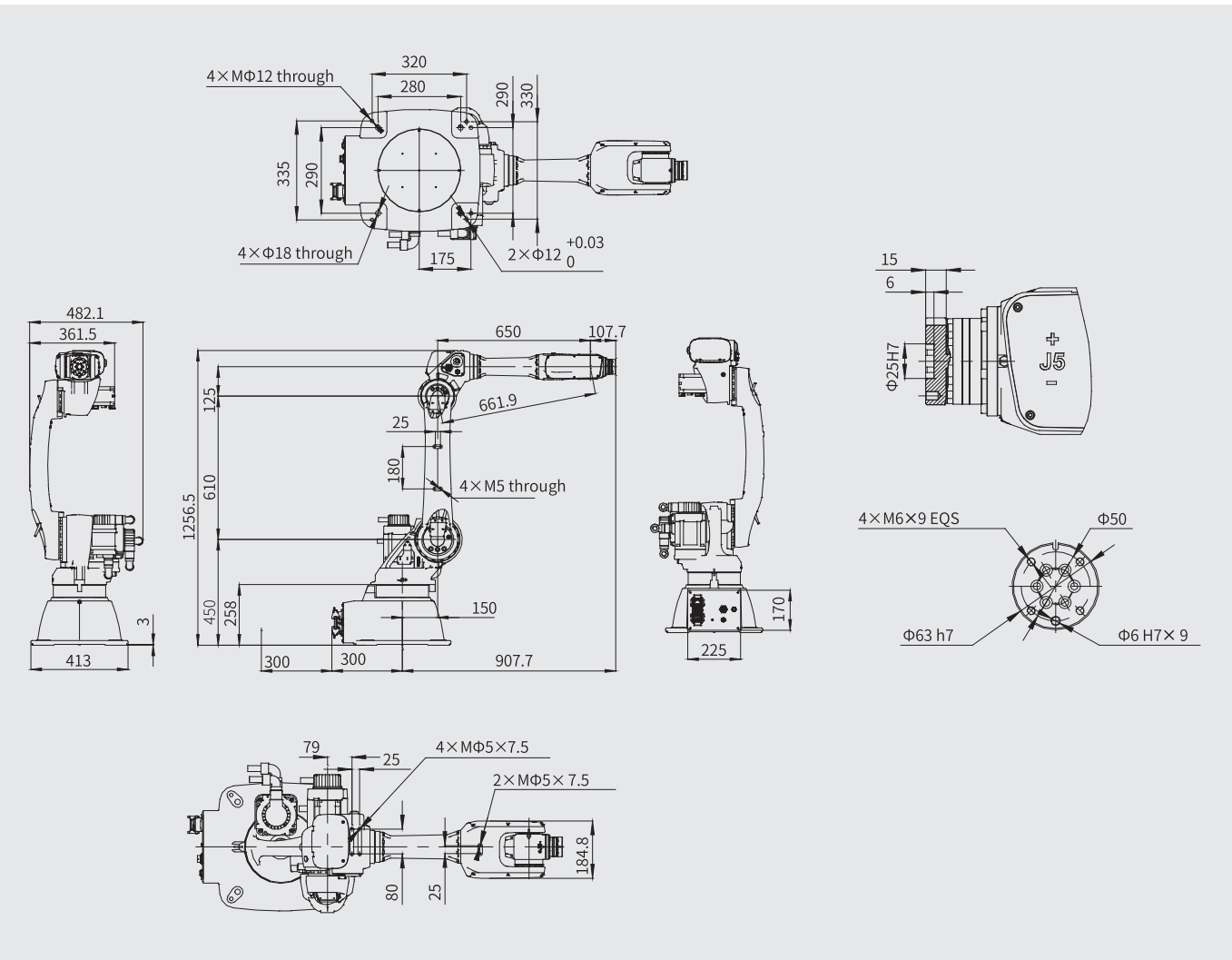
Load	10 kg
Arm length	1422 mm
Repeatability	±0.05 mm
IP rating	IP65 (IP67 for wrist)



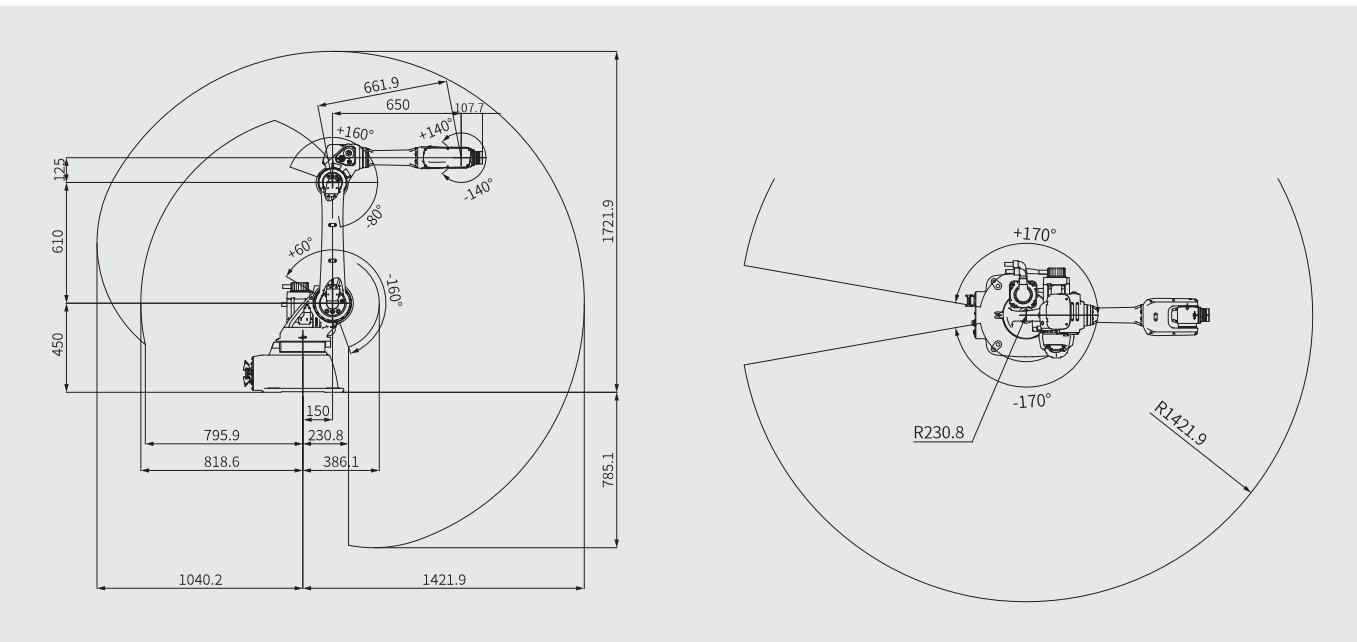
Technical Data

Model		IR-R10-140S-INT
Structural style		Vertical axis cascading structure
Number of Axes		6 axes
Maximum reach (mm)		1422
Repeatability (mm)		±0.05
Maximum Load (kg)		10
IP rating		Body: IP65Wrist: IP67
Max.Speed	J1 (° /s)	200
	J2 (° /s)	200
	J3 (° /s)	200
	J4 (° /s)	375
	J5 (° /s)	375
	J6 (° /s)	600
Maxi-mummotion range	J1 (°)	±170
	J2 (°)	-160~+60
	J3 (°)	-80~+160
	J4 (°)	±180
	J5 (°)	±140
	J6 (°)	±360
Allowed wrist torque	J4 (N·m)	22
	J5 (N·m)	22
	J6 (N·m)	9.8
Allowed wrist inertia	J4 (N·m)	0.63
	J5 (N·m)	0.63
	J6 (N·m)	0.2
Customer connections	Wiring	18 signal lines 30V 0.5A
	Air	Φ8 mm × 1, 0.59 Mpa
Operating conditions	Ambient temperature(° C)	0~45
	Relative humidity	10% to 80% RH(non-condensing)
	Maximum Temperature Gradient(° C/min)	1.5
Shipment Conditions	Ambient temperature(°C)	0~45
	Relative humidity	≤ 80% RH,non-condensing
	Ambient temperature(°C)	-10~55
Storage Conditions	Ambient temperature(°C)	-10~55
	Relative humidity	≤ 80% RH,non-condensing
Cable	Stand:5m optional: 3m/10m/15m/High Flexible(3m/5m/10m/15m)	
Weight	130kg	
Controller	IRCB501-6ND-INT	
Mounting mode	Floor mounted	
Certification	Kcs, KC, CE, cSGSus, FCC, Safety Function	

Mounting Dimensions(mm)



Motion Range(mm)



6-Axis Robot

IR-R25 Series

The maximum load is increased to 25 kg, the structure is compact, the bearing capacity is strong,High repetition accuracy, easy to use and high reliability.

Scope of Application

It can be applied to handling, assembly, loading and unloading, grinding and polishing, and stamping automation in general industry, and other applications.

Features

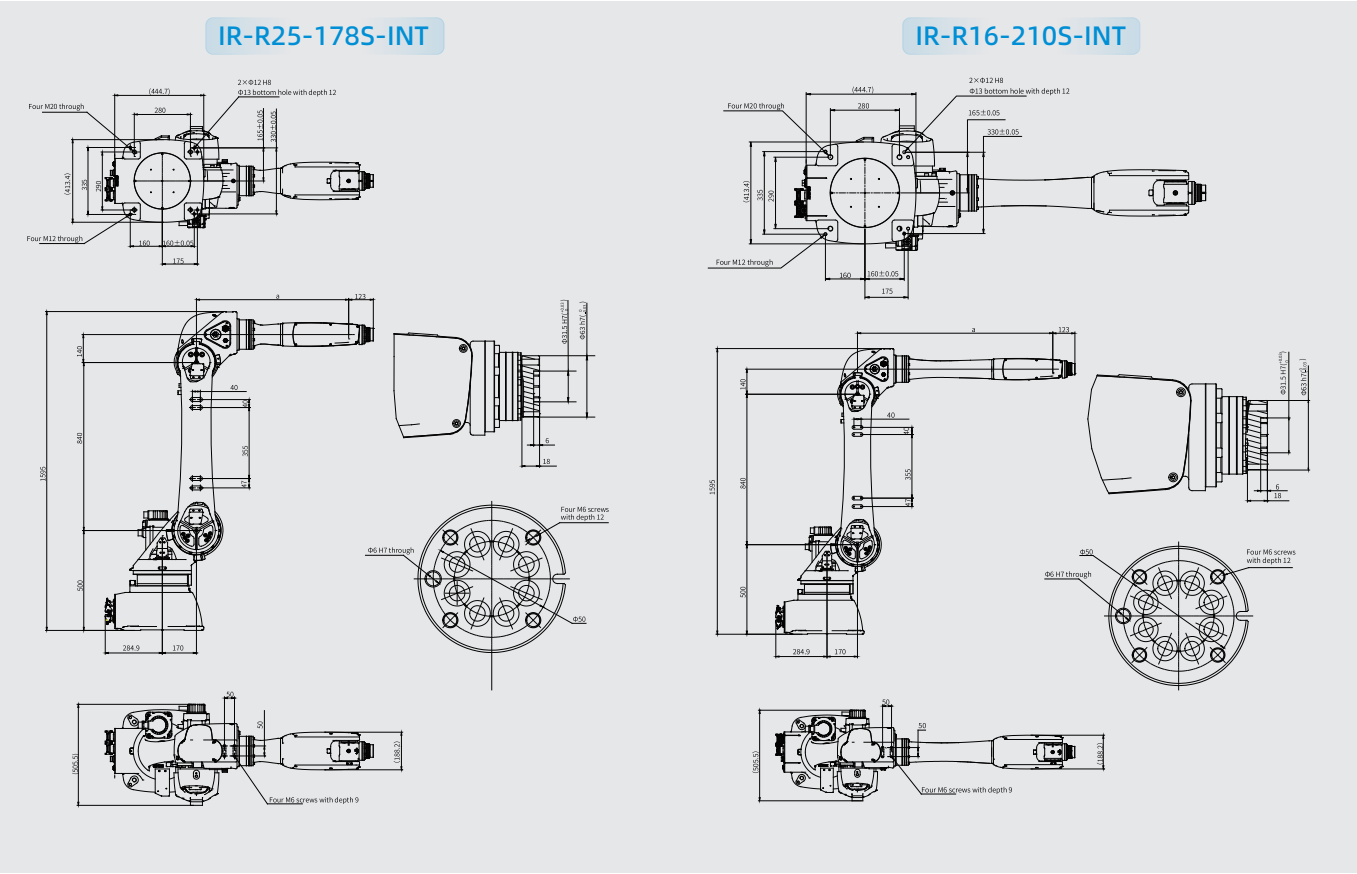
Load	16kg/25kg
Arm length	2107mm/1783mm
Repeatability	±0.03mm
IP rating	IP65 (IP67 for wrist)



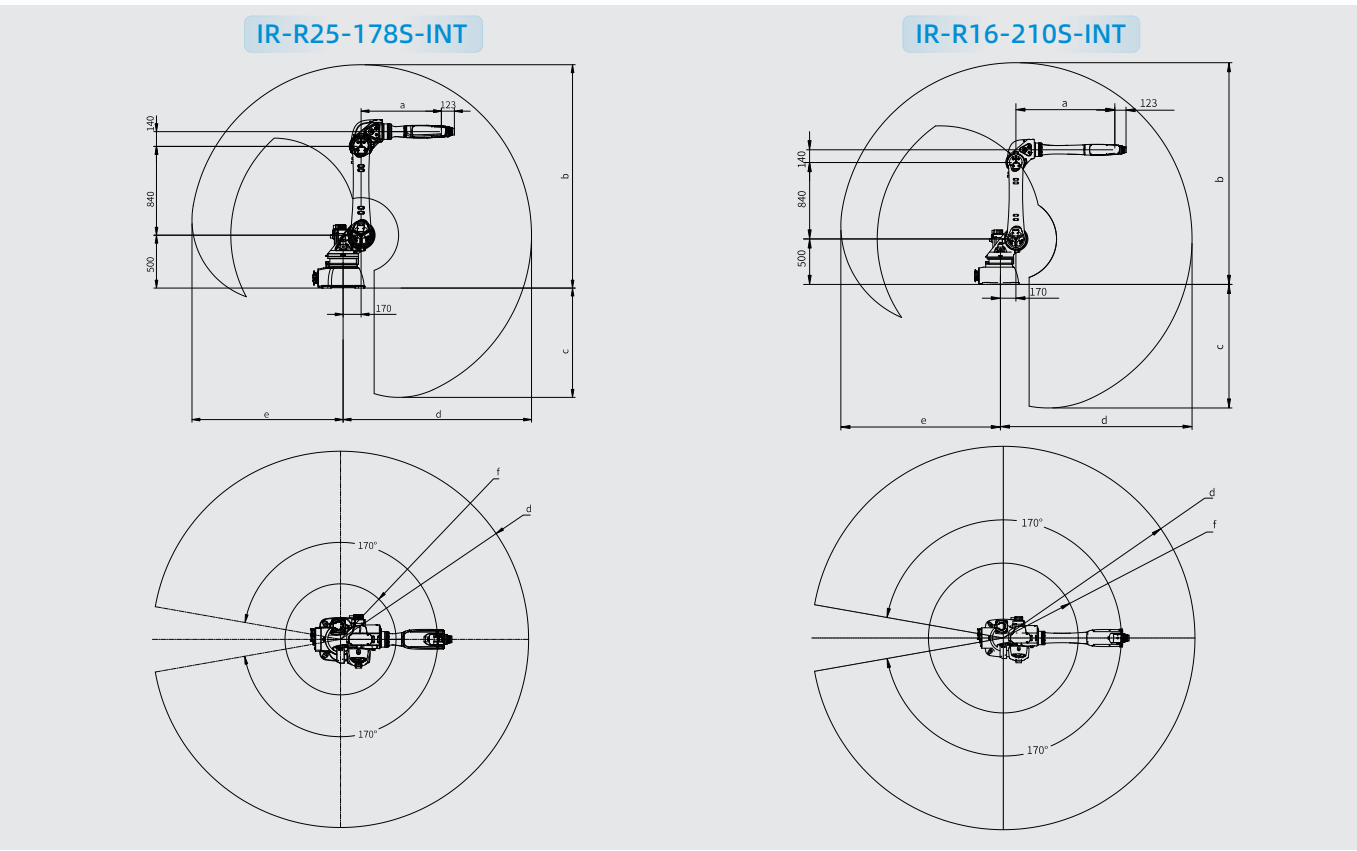
Technical Data

Model		IR-R16-210S-INT	IR-R25-178S-INT
Structural style		Vertical axis cascading structure	Vertical axis cascading structure
Number of Axes		6 axes	6 axes
Maximum reach (mm)		2107	1783
Repeatability (mm)		±0.03	±0.03
Maximum Load (kg)		16	25
IP rating		Body: IP65	Body: IP65
Max.Speed	J1 (° /s)	190	190
	J2 (° /s)	175	175
	J3 (° /s)	200	200
	J4 (° /s)	400	400
	J5 (° /s)	360	360
	J6 (° /s)	610	610
Maxi-mummotion range	J1 (°)	±170	±170
	J2 (°)	-155~+80	-155~+80
	J3 (°)	-75~+160	-75~+160
	J4 (°)	±180	±180
	J5 (°)	±140	±140
	J6 (°)	±360	±360
Allowed wrist torque	J4 (N·m)	25	50
	J5 (N·m)	25	50
	J6 (N·m)	12	30
Allowed wrist inertia	J4 (N·m)	0.78	2.2
	J5 (N·m)	0.78	2.2
	J6 (N·m)	0.3	1.5
Customer connections	Wiring	18 signal lines 30V 0.5A	18 signal lines 30V 0.5A
	Air	Φ8 mm × 1, 0.59 Mpa	Φ8 mm × 1, 0.59 Mpa
Operating conditions	Ambient temperature(° C)	0~45	0~45
	Relative humidity	5% to 95% RH(non-condensing)	5% to 95% RH(non-condensing)
	Maximum Temperature Gradient(° C/min)	1.5	1.5
Shipment Conditions	Ambient temperature(°C)	0~45	0~45
	Relative humidity	≤ 95% RH,non-condensing	≤ 95% RH,non-condensing
	Ambient temperature(°C)	-10~55	-10~55
Storage Conditions	Ambient temperature(°C)	-10~55	-10~55
	Relative humidity	≤ 95% RH,non-condensing	≤ 95% RH,non-condensing
Cable		Stand:5m optional: 3m/10m/15m/High Flexible(3m/5m/10m/15m)	
Weight		260kg	255kg
Controller		IRCB501-6ND-INT	IRCB501-6ND-INT
Mounting mode		Floor mounted	Floor mounted
Certification		Kcs, KC, CE, cSGSus, FCC, Safety Function	

Mounting Dimensions(mm)



Motion Range(mm)



IR-S4 Series

Scope of Application

Features

battery in-

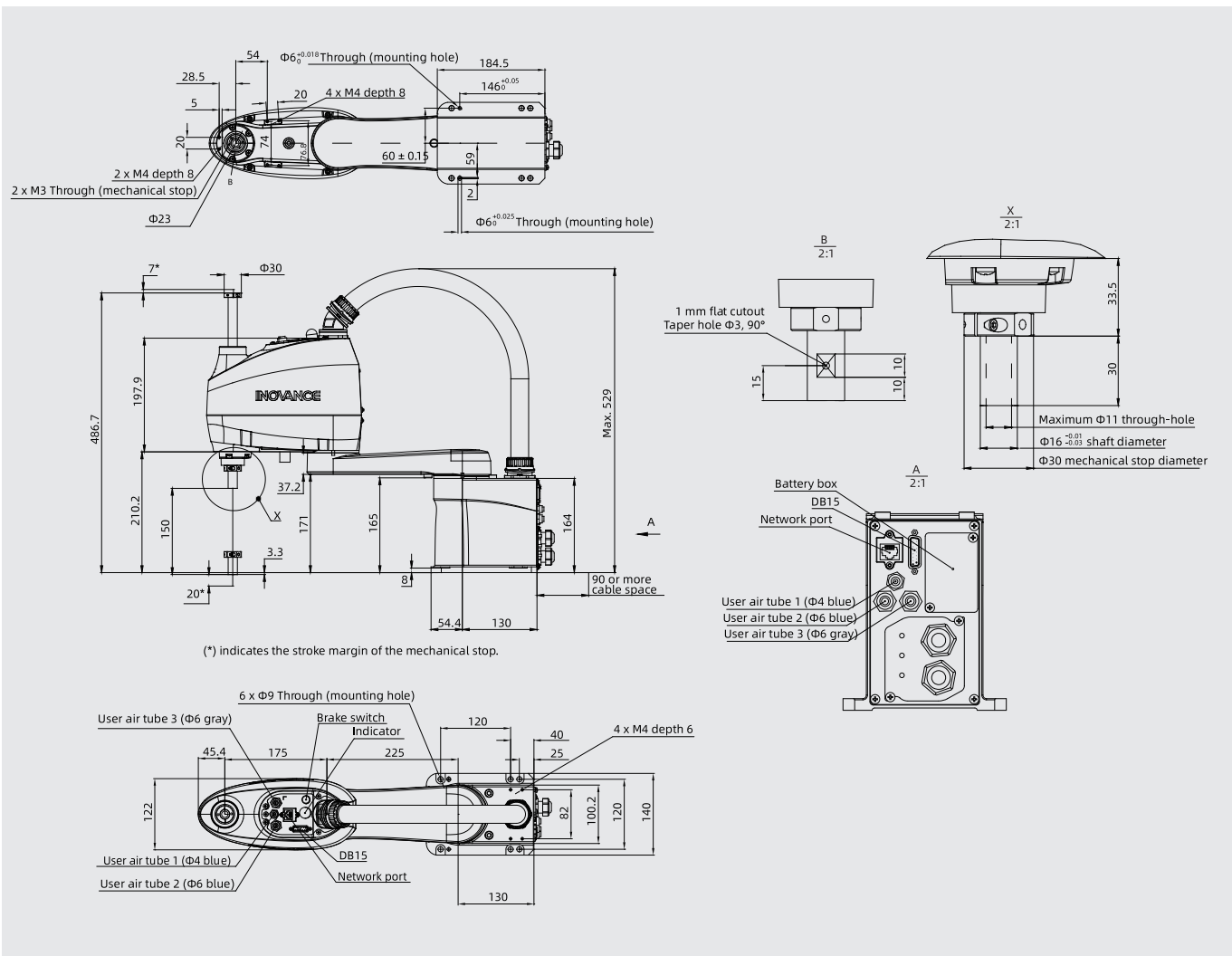


The image shows a white Inverter robot arm with a black cable connected to a battery pack. The battery pack is a large, rectangular unit with multiple ports and a blue cap. The robot arm has the 'INVANCE' logo on its side. The background is a plain, light-colored surface.

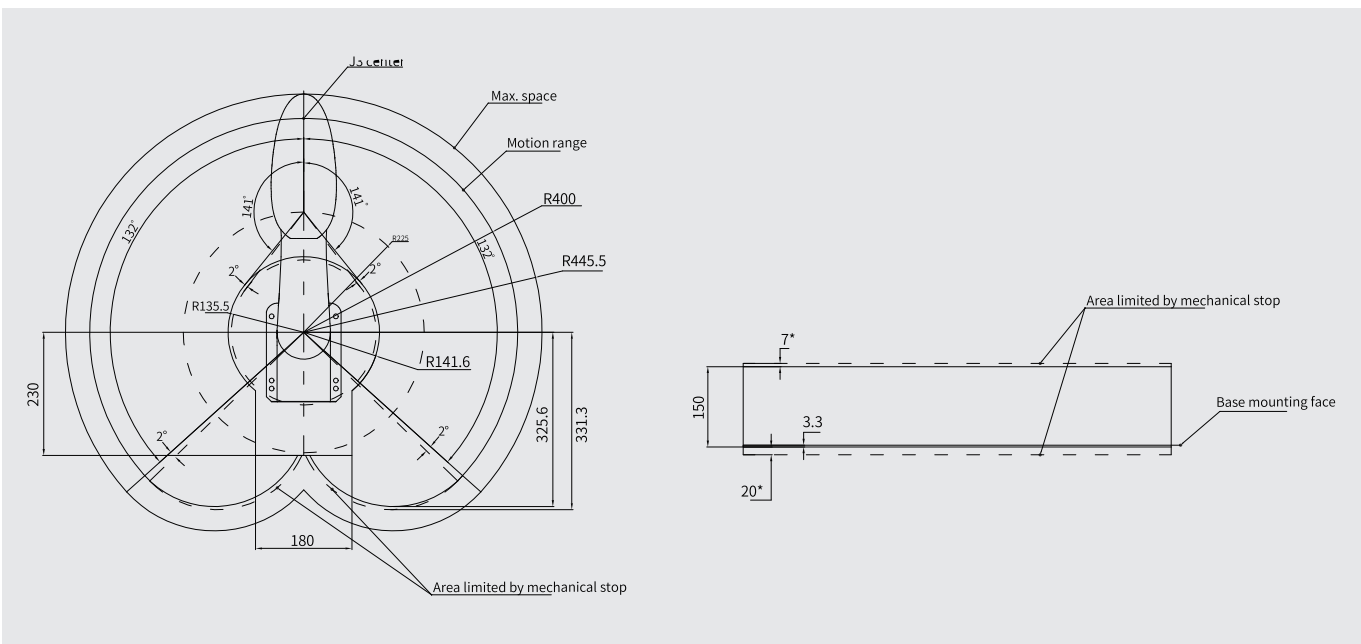
Model		IR-S4-40Z15S-INT
Arm length	J1+J2(mm)	400
	J1(mm)	225
	J2(mm)	175
Maximum speed	J1+J2(mm/s)	7200
	J3(mm/s)	1300
	J4(° /s)	2600
Repeatability	J1+J2(mm)	±0.01
	J3(mm)	±0.01
	J4(°)	±0.01
Load	Rated(kg)	2
	Maximum(kg)	4
Permissible moment inertia of J4	Rated(kg·m²)	0.005
	Maximum(kg·m²)	0.05
Mounting base dimensions(mm)		120×120(4-Φ9)
Cable		Stand: 3m Optional: 5m/10m/15m/High Flexible (3m/5m/10m/15m)
Weight(excluding cables)		12kg
Press-in force of J3		100N
Customer signal line		15 signal lines 30V 0.5A CAT5E
Customer air piping		Φ6 mm × 2, 0.59 Mpa Φ4 mm × 1, 0.59 Mpa
Operating conditions	Ambient temperature ^[1]	5~40° C (no excessive temperature changes)
	Relative humidity	10~80%
Shipment Conditions	Ambient temperature	-10°C ~55°C
	Relative humidity	≤ 80% RH, non-condensing
Storage Conditions	Ambient temperature	-10°C ~55°C
	Relative humidity	≤ 80% RH, non-condensing
Noise level ^[2]		Laeq=70dB(A)
Maximum motion range	J1(°)	±132
	J2(°)	±141
	J3(mm)	150
	J4(°)	±360
Standard cycle time(s) ^[3]		0.342
Controller		IRCB501-4AD-INT
Certification		KCs, KC, CE, cSGSus, FCC, Safety Function , Optional: Cleanliness Class 4

[3] Standard cycle time for 3kg/4kg SCARA: 1kg load, the time required for the robot to go back and forth with a gate command (300 mm horizontally, 25 mm vertically)

Mounting Dimensions(mm)



Motion Range(mm)



SCARA Robot

IR-S7 Series

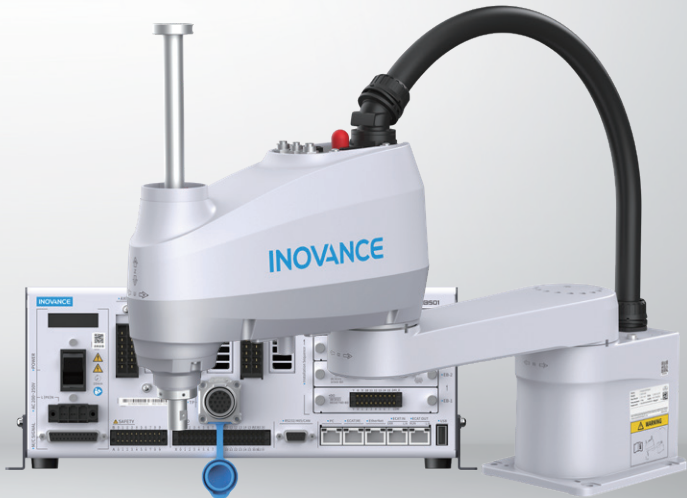
Robots with enhanced load capacity and multiple arm length options, suitable for large load applications in various industries.

Scope of Application

Assembly and dispensing in 3C industry, lithium battery industry, photovoltaic industry, and display industry.

Features

Load	7 kg
Arm length	500 mm / 600 mm / 700 mm
Efficiency	0.351s/0.36s/0.375s
Repeatability	J1 and J2: ±0.02 mm; J3: 0.01 mm; J4: ±0.01°



Technical Data

Model		IR-S7-50Z20S-INT	IR-S7-60Z20S-INT	IR-S7-70Z20S-INT
Arm length	J1+J2(mm)	500	600	700
	J1(mm)	225	325	425
	J2(mm)	275	275	275
Maximum speed	J1+J2(mm/s)	7120	7850	8590
	J3(mm/s)	1600	1600	1600
	J4(°/s)	2000	2000	2000
Repeatability	J1+J2(mm)	±0.02	±0.02	±0.02
	J3(mm)	±0.01	±0.01	±0.01
	J4(°)	±0.01	±0.01	±0.01
Load	Rated(kg)	3	3	3
	Maximum(kg)	7	7	7
Permissible moment inertia of J4	Rated(kg·m ²)	0.01	0.01	0.01
	Maximum(kg·m ²)	0.12	0.12	0.12
Mounting base dimensions(mm)		150×150(4-Φ9)	150×150(4-Φ9)	150×150(4-Φ9)
Cable		Stand: 3m Optional: 5m/10m/15m/High Flexible (3m/5m/10m/15m)		
Weight(excluding cables)		17kg	17.5kg	19kg
Press-in force of J3		150N	150N	150N
Customer signal line		15 signal lines 30V 0.5A	15 signal lines 30V 0.5A	15 signal lines 30V 0.5A
Customer air piping		CAT5E	CAT5E	CAT5E
		Φ6 mm × 2, 0.59 Mpa	Φ6 mm × 2, 0.59 Mpa	Φ6 mm × 2, 0.59 Mpa
		Φ4 mm × 1, 0.59 Mpa	Φ4 mm × 1, 0.59 Mpa	Φ4 mm × 1, 0.59 Mpa
Operating conditions	Ambient temperature ^[1]	5~40° C (no excessive temperature changes)		
	Relative humidity	10~80%	10~80%	10~80%
Shipment Conditions	Ambient temperature	-10°C ~55°C	-10°C ~55°C	-10°C ~55°C
	Relative humidity	≤ 80% RH,non-condensing	≤ 80% RH,non-condensing	≤ 80% RH,non-condensing
Storage Conditions	Ambient temperature	-10°C ~55°C	-10°C ~55°C	-10°C ~55°C
	Relative humidity	≤ 80% RH, non-condensing	≤ 80% RH, non-condensing	≤ 80% RH, non-condensing
Noise level ^[2]		Laeq=70dB(A)	Laeq=70dB(A)	Laeq=70dB(A)
Maximum motion range	J1(°)	±132	±132	±132
	J2(°)	±150	±150	±150
	J3(mm)	200	200	200
	J4(°)	±360	±360	±360
Standard cycle time(s) ^[3]		0.351	0.36	0.375
Controller		IRCB501-4CD-INT	IRCB501-4CD-INT	IRCB501-4CD-INT
Certification		KCs, KC, CE, CSGSus, FCC, Safety Function , Optional: Cleanliness Class 4		

[1] If this product is used in a low temperature environment close to the lowest temperature of the product specification, or if it is suspended for a long time due to holidays and nights, it is recommended to warm up for 10 minutes before running

[2] Noise test conditions: 4 joint linkage, 100% speed and acceleration, duty cycle 50%, measurement position: the front of the robot, 1000mm away from the action area, and more than 50mm from the base mounting surface.

[3] Standard cycle time for 7kg/10kg SCARA : 2kg load, the time required for the robot to go back and forth with a gate command (300 mm horizontally, 25 mm vertically)

Mounting Dimensions(mm)

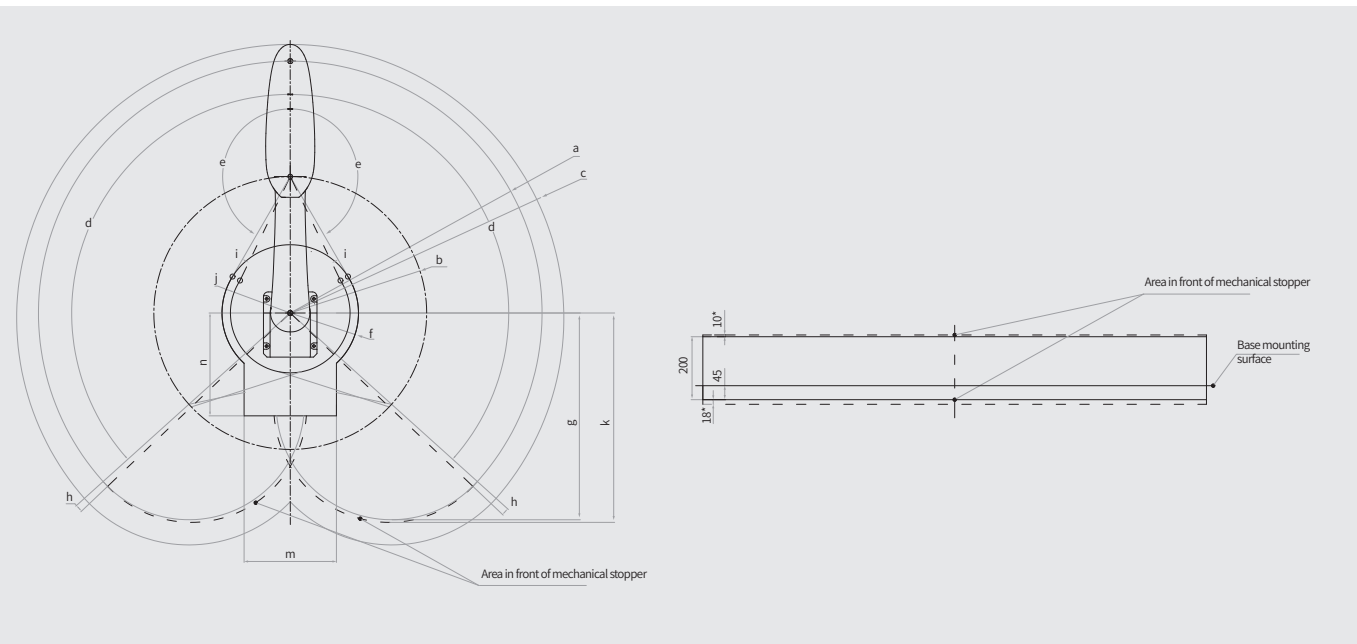
Motion range of IR-S7 series robots with different arm lengths

Model	IR-S7-50Z20S-INT	IR-S7-60Z20S-INT	IR-S7-70Z20S-INT
a: Length of arm 1 + arm 2 (mm)	500	600	700
b: Length of arm 1 (mm)	225	325	425
c: Maximum motion range (mm)	552	652	752
d: Motion range of J1 (°)	132		
e: Motion range of J2 (°)	150		
f: Motion range (mm)	138.1	162.6	232
g: Rear motion range (mm)	425.6	492.5	559.4
h: Angle of mechanical stop position of J1 (°)	1		
i: Angle of mechanical stop position of J2 (°)	1	3	4
j: Range of mechanical stop position (mm)	134.2	148.3	214.8
k: Range of rear mechanical stop position (mm)	428.5	496.7	564.9
m: Motion range (mm)	240	220	220
n: Motion range (mm)	245		

Parameters of IR-S7 series robots with different arm lengths

Model	IR-S7-50Z20S-INT	IR-S7-60Z20S-INT	IR-S7-70Z20S-INT
α	225	325	425
β	545	569	599

Motion Range(mm)

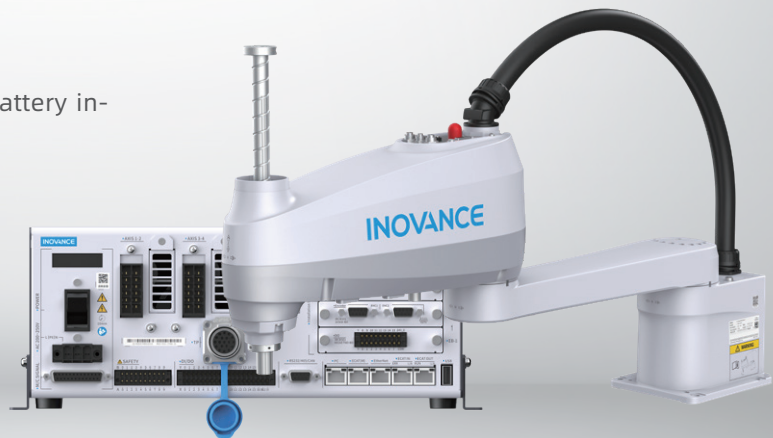


IR-S10 Series

Scope of Application

Features

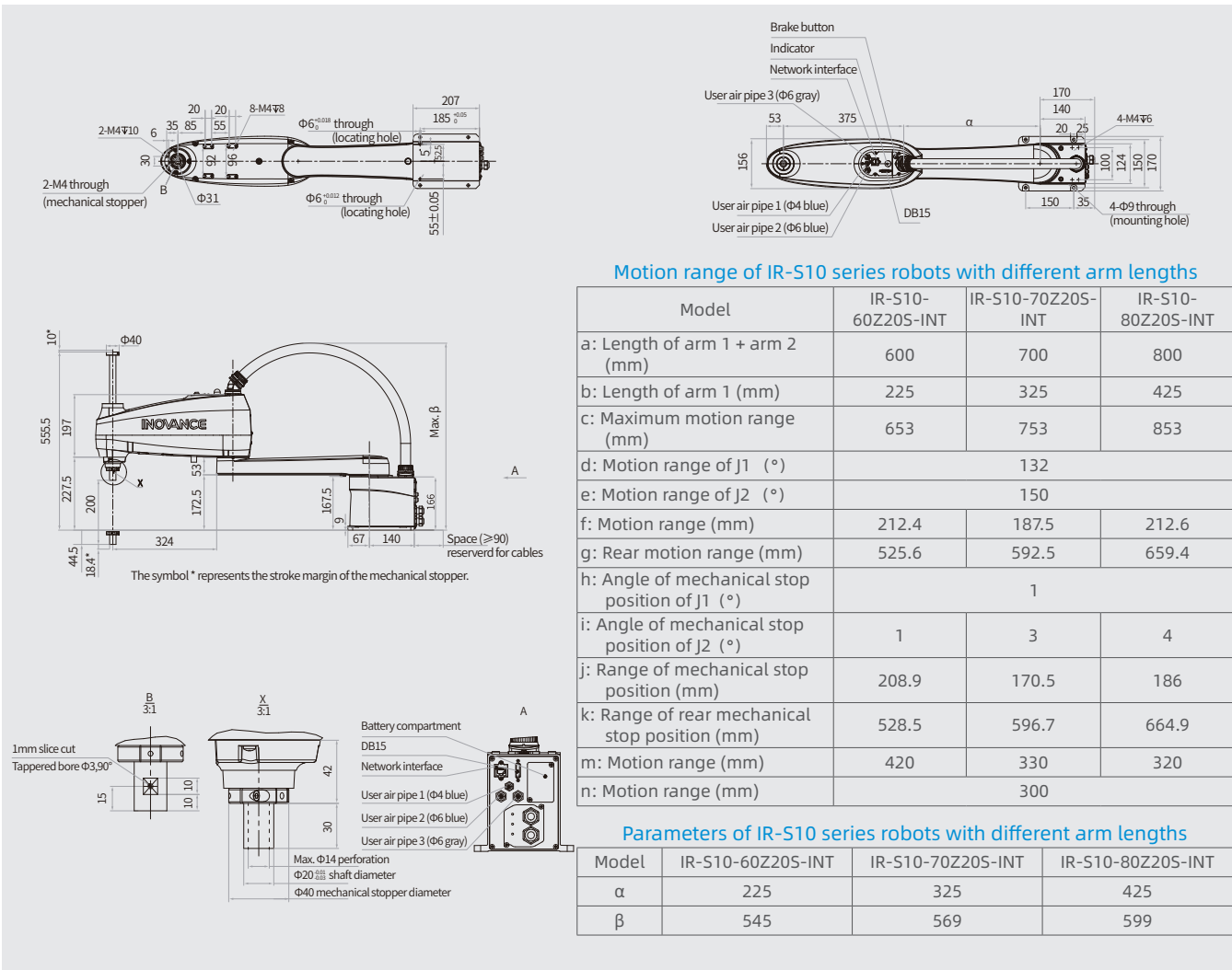
Load	10 kg
Arm length	600 mm / 700 mm / 800 mm
Cycle time	0.361s/0.386s/0.416s
Repeatability	J1 and J2: ± 0.02 mm to 0.025 mm J3: 0.01 mm; J4: $\pm 0.01^\circ$



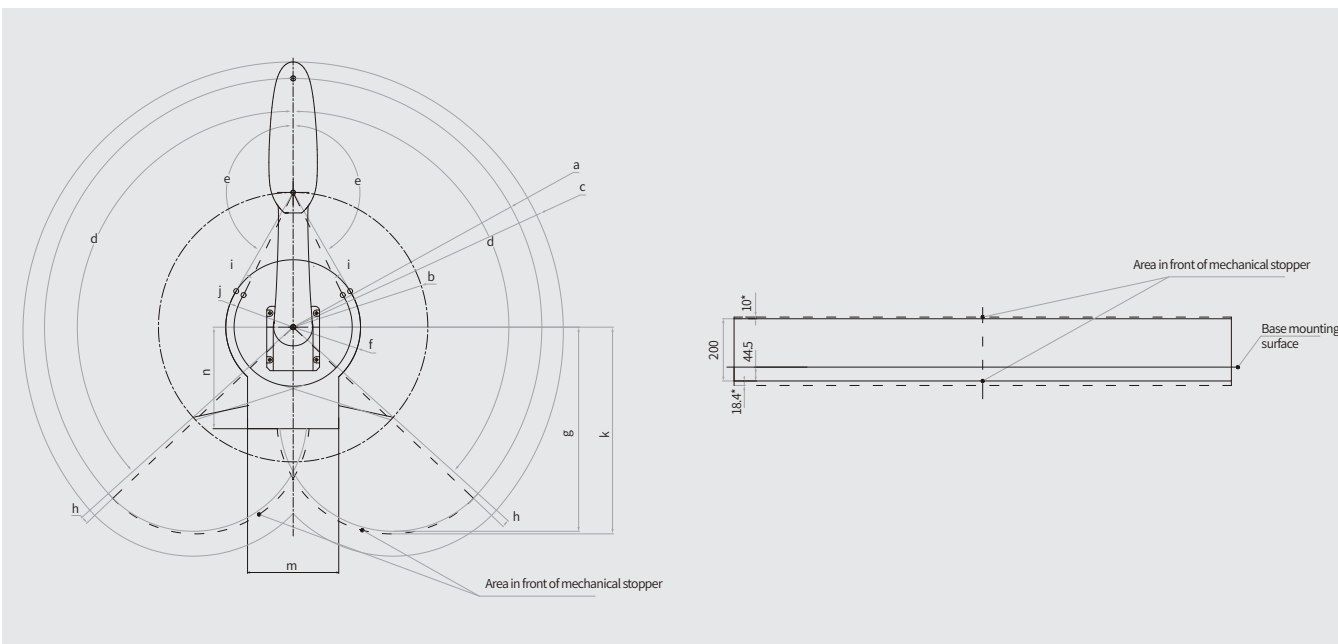
Model		IR-S10-60Z20S-INT	IR-S10-70Z20S-INT	IR-S10-80Z20S-INT
Arm length	J1+J2(mm)	600	700	800
	J1(mm)	225	325	425
	J2(mm)	375	375	375
Maximum speed	J1+J2(mm/s)	9100	9800	10500
	J3(mm/s)	1600	1600	1600
	J4(° /s)	2700	2700	2700
Repeatability	J1+J2(mm)	±0.02	±0.02	±0.025
	J3(mm)	±0.01	±0.01	±0.01
	J4(°)	±0.01	±0.01	±0.01
Load	Rated(kg)	5	5	5
	Maximum(kg)	10	10	10
Permissible moment inertia of J4	Rated(kg·m ²)	0.02	0.02	0.02
	Maximum(kg·m ²)	0.3	0.3	0.3
Mounting base dimensions(mm)		150×150(4-Φ9)	150×150(4-Φ9)	150×150(4-Φ9)
Cable		Stand: 3m Optional: 5m/10m/15m/High Flexible (3m/5m/10m/15m)		
Weight(excluding cables)		18.5kg	19kg	20.5kg
Press-in force of J3		200N	200N	200N
Customer signal line		15 signal lines 30V 0.5A CAT5E	15 signal lines 30V 0.5A CAT5E	15 signal lines 30V 0.5A CAT5E
Customer air piping		Φ6 mm × 2, 0.59 Mpa Φ4 mm × 1, 0.59 Mpa	Φ6 mm × 2, 0.59 Mpa Φ4 mm × 1, 0.59 Mpa	Φ6 mm × 2, 0.59 Mpa Φ4 mm × 1, 0.59 Mpa
Operating conditions	Ambient temperature ^[1]	5~40° C (no excessive temperature changes)		
	Relative humidity	10~80%	10~80%	10~80%
Shipment Conditions	Ambient temperature	-10°C ~55°C	-10°C ~55°C	-10°C ~55°C
	Relative humidity	≤ 80% RH,non-condensing	≤ 80% RH,non-condensing	≤ 80% RH,non-condensing
Storage Conditions	Ambient temperature	-10°C ~55°C	-10°C ~55°C	-10°C ~55°C
	Relative humidity	≤ 80% RH, non-condensing	≤ 80% RH, non-condensing	≤ 80% RH, non-condensing
Noise level ^[2]		Laeq=70dB(A)	Laeq=70dB(A)	Laeq=70dB(A)
Maximum motion range	J1(°)	±132	±132	±132
	J2(°)	±150	±150	±150
	J3(mm)	200	200	200
	J4(°)	±360	±360	±360
Standard cycle time(s) ^[3]		0.361	0.386	0.416
Controller		IRCB501-4CD-INT	IRCB501-4CD-INT	IRCB501-4CD-INT
Certification		KCs, KC, CE, cSGSus, FCC, Safety Function , Optional: Cleanliness Class 4		

[3] Time required for a 7 kg/10 kg SCARA robot to move a 2 kg payload between two points 300 mm apart at a height of 25 mm.

Mounting Dimensions(mm)



Motion Range(mm)



IR-S25 Series

Scope of Application

Features

Load	25kg
Arm length	800 mm/1000 mm/1200 mm
Efficiency	0.33s/0.35s/0.40s
Repeatability	J1 and J2: ± 0.05 mm to ± 0.08 mm J3: ± 0.01 mm; J4: $\pm 0.01^\circ$



Model		IR-S25-80Z425-INT	IR-S25-100Z425-INT	IR-S25-120Z425-INT
Arm length	J1+J2(mm)	800	1000	1200
	J1(mm)	350	550	750
	J2(mm)	450	450	450
Maximum speed	J1+J2(mm/s)	8100	9400	9400
	J3(mm/s)	2100	2100	1200
	J4(° /s)	705	705	705
Repeatability	J1+J2(mm)	±0.05	±0.05	±0.08
	J3(mm)	±0.01	±0.01	±0.01
	J4(°)	±0.01	±0.01	±0.01
Load	Rated(kg)	10	10	10
	Maximum(kg)	25	25	25
Permissible moment inertia of J4	Rated(kg·m²)	0.5	0.5	0.5
	Maximum(kg·m²)	1.2	1.2	1.2
Mounting base dimensions(mm)		200×200(4-Φ16)	200×200(4-Φ16)	200×200(4-Φ16)
Cable		Stand: 5m Optional: 3m/10m/15m/High Flexible (3m/5m/10m/15m)		
Weight(excluding cables)		68.5kg	72.5kg	78kg
Press-in force of J3		250N	250N	250N
Customer signal line		25 signal lines 30V 0.5A CAT5E	25 signal lines 30V 0.5A CAT5E	25 signal lines 30V 0.5A CAT5E
Customer air piping		Φ6 mm × 2, 0.59 Mpa Φ8 mm × 2, 0.59 Mpa	Φ6 mm × 2, 0.59 Mpa Φ8 mm × 2, 0.59 Mpa	Φ6 mm × 2, 0.59 Mpa Φ8 mm × 2, 0.59 Mpa
Operating conditions	Ambient temperature ^[1]	5~40° C (no excessive temperature changes)		
	Relative humidity	10~80%	10~80%	10~80%
Shipment Conditions	Ambient temperature	-10°C ~55°C	-10°C ~55°C	-10°C ~55°C
	Relative humidity	≤ 80% RH, non-condensing	≤ 80% RH, non-condensing	≤ 80% RH, non-condensing
Storage Conditions	Ambient temperature	-10°C ~55°C	-10°C ~55°C	-10°C ~55°C
	Relative humidity	≤ 80% RH, non-condensing	≤ 80% RH, non-condensing	≤ 80% RH, non-condensing
Noise level ^[2]		LAeq ≤ 80dB(A)	LAeq ≤ 80dB(A)	LAeq ≤ 80dB(A)
Maximum motion range	J1(°)	±139	±139	±139
	J2(°)	±151	±151	±151
	J3(mm)	420	420	420
	J4(°)	±360	±360	±360
Standard cycle time(s) ^[3]		0.33	0.35	0.4
Controller		IRCB501-4ED-INT	IRCB501-4ED-INT	IRCB501-4ED-INT
Certification		KCs, KC, CE, cSGSus, FCC, Safety Function , Optional: Cleanliness Class 4		

[3] Time required for a 7 kg/10 kg SCARA robot to move a 2 kg payload between two points 300 mm apart at a height of 25 mm.

IR-S25 系列（洁净型）不同臂长机型参数

项目	IR-S25-80Z36C5	IR-S25-100Z36C5
a	350	550
b	1040	1140

机 型	IR-S25-80Z36C5	IR-S25-100Z36C5
a.J1 轴臂长 +J2 轴臂长 (mm)	800	1000
b.J1 轴臂长 (mm)	350	550
c. 最大运动范围 (mm)	871.3	1071.3
d.J1 轴运动范围 (°)	139	139
e.J2 轴运动范围 (°)	151	151
f. 运动范围 (mm)	164.3	258.2
g. 后方运动范围 (mm)	718	865
h.J1 轴机械停止位的角度 (°)	2	2
i.J2 轴机械停止位的角度 (°)	2	2
j. 机械停止位的范围 (mm)	153.4	241.1
k. 后方机械停止位的范围 (mm)	721.4	877.2
m. 运动范围 (mm)	363	165
n. 运动范围 (mm)	447.5	309
o.J3 轴行程 (mm)	360	360
p. 丝杆末端到底座距离 (mm)	89.5	89.5
q. 机械挡块的行程裕量 (mm)	3	3

SCARA Robot

IR-S35 Series

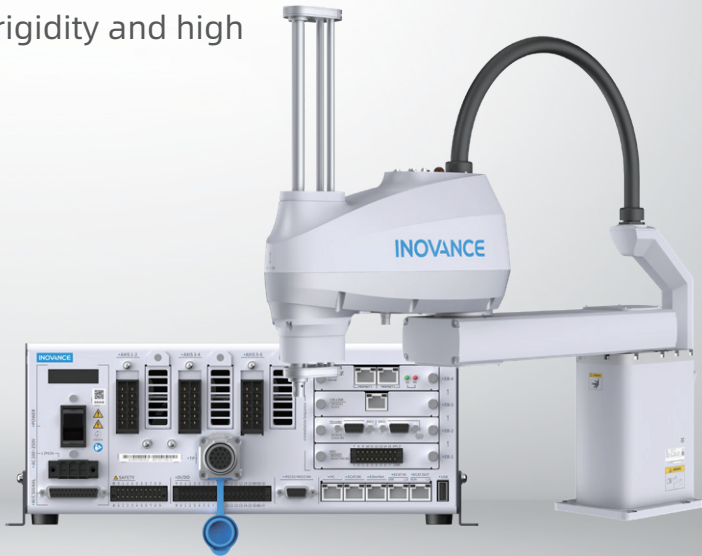
The special machine for the lithium battery industry has the characteristics of high inertia, strong rigidity and high precision

Scope of Application

Lithium battery

Features

Load	35kg
Arm length	800mm/1000mm/1200mm
Cycle time	0.31s/0.33s/0.42s
Repeatability	J1, J2: ±0.05mm to ±0.08mm, J3: ±0.01mm, J4: ±0.01°



Technical Data

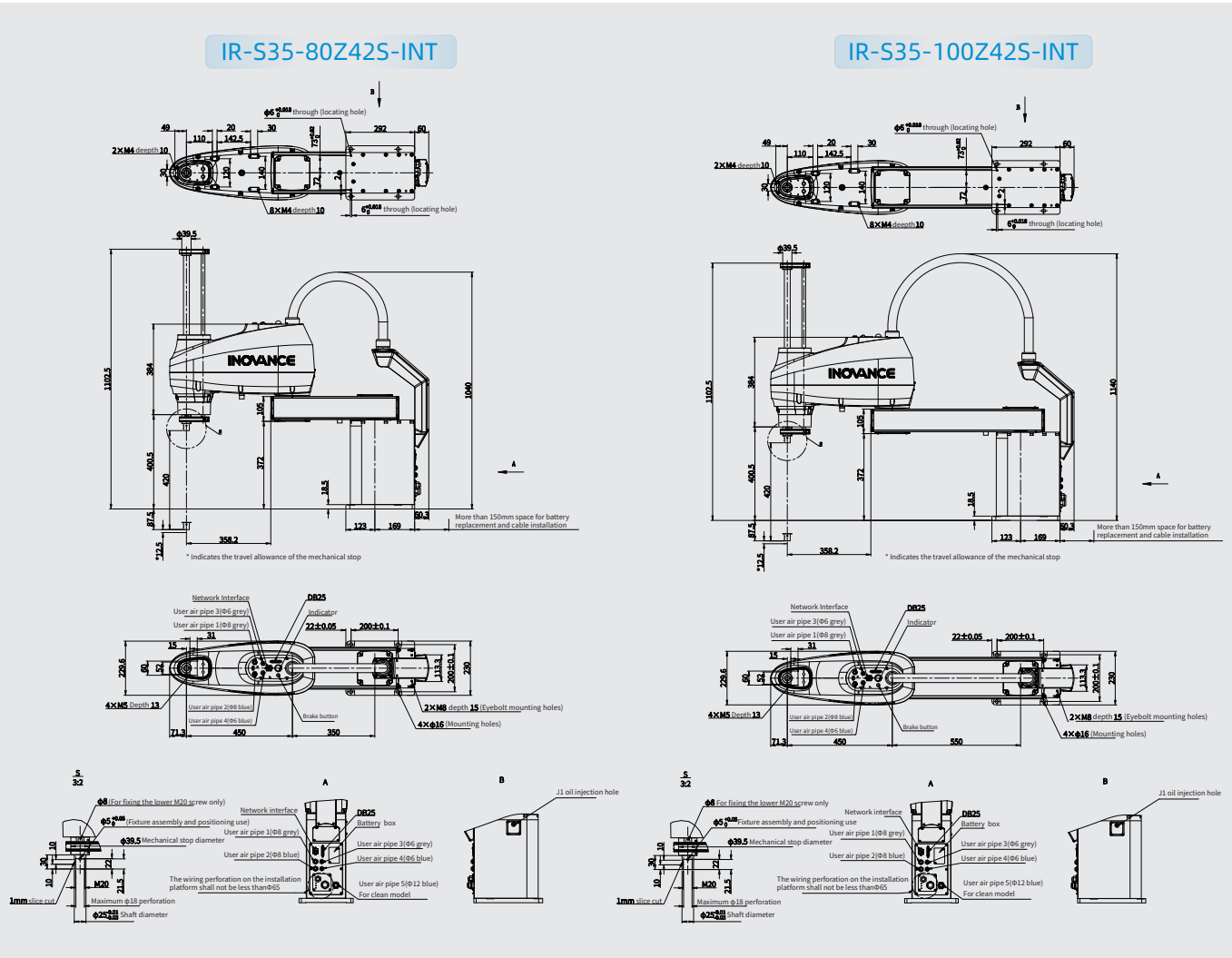
Model		IR-S35-80Z42S-INT	IR-S35-100Z42S-INT	IR-S35-120Z42S-INT
Arm length	J1+J2(mm)	800	1000	1200
	J1(mm)	350	550	750
	J2(mm)	450	450	450
	J3(mm)	450	450	450
Maximum speed	J1+J2(mm/s)	8100	9400	9400
	J3(mm/s)	2100	2100	1200
	J4(°/s)	705	705	705
	J1+J2(mm)	±0.05	±0.05	±0.08
Repeatability	J3(mm)	±0.01	±0.01	±0.01
	J4(°)	±0.01	±0.01	±0.01
Load	Rated(kg)	20	20	20
	Maximum(kg)	35	35	35
Permissible moment inertia of J4	Rated(kg·m ²)	0.6	0.6	0.6
	Maximum(kg·m ²)	1.2	1.2	1.2
Mounting base dimensions(mm)		200×200(4-Φ16)	200×200(4-Φ16)	200×200(4-Φ16)
Cable		Stand: 5m Optional: 3m/10m/15m/High Flexible (3m/5m/10m/15m)		
Weight(excluding cables)		70.5kg	74.5kg	80.5kg
Press-in force of J3		250N	250N	250N
Customer signal line		25 signal lines 30V 0.5A	25 signal lines 30V 0.5A	25 signal lines 30V 0.5A
Customer air piping		CAT5E	CAT5E	CAT5E
		Φ6 mm × 2, 0.59 Mpa	Φ6 mm × 2, 0.59 Mpa	Φ6 mm × 2, 0.59 Mpa
		Φ8 mm × 2, 0.59 Mpa	Φ8 mm × 2, 0.59 Mpa	Φ8 mm × 2, 0.59 Mpa
Operating conditions	Ambient temperature ^[1]	5~40° C (no excessive temperature changes)		
	Relative humidity	10~80%	10~80%	10~80%
	Ambient temperature	-10°C ~55°C	-10°C ~55°C	-10°C ~55°C
Shipment Conditions	Relative humidity	≤ 80% RH, non-condensing	≤ 80% RH, non-condensing	≤ 80% RH, non-condensing
	Ambient temperature	-10°C ~55°C	-10°C ~55°C	-10°C ~55°C
Storage Conditions	Relative humidity	≤ 80% RH, non-condensing	≤ 80% RH, non-condensing	≤ 80% RH, non-condensing
	Relative humidity	≤ 80% RH, non-condensing	≤ 80% RH, non-condensing	≤ 80% RH, non-condensing
Noise level ^[2]		LAeq ≤ 80dB(A)	LAeq ≤ 80dB(A)	LAeq ≤ 80dB(A)
Maximum motion range	J1(°)	±139	±139	±139
	J2(°)	±151	±151	±151
	J3(mm)	420	420	420
	J4(°)	±360	±360	±360
Standard cycle time(s) ^[3]		0.31	0.33	0.42
Controller		IRCB501-4ED-INT	IRCB501-4ED-INT	IRCB501-4ED-INT
Certification		KCs, KC, CE, CSGSus, FCC, Safety Function , Optional: Cleanliness Class 4		

[1] If this product is used in a low temperature environment close to the lowest temperature of the product specification, or if it is suspended for a long time due to holidays and nights, it is recommended to warm up for 10 minutes before running.

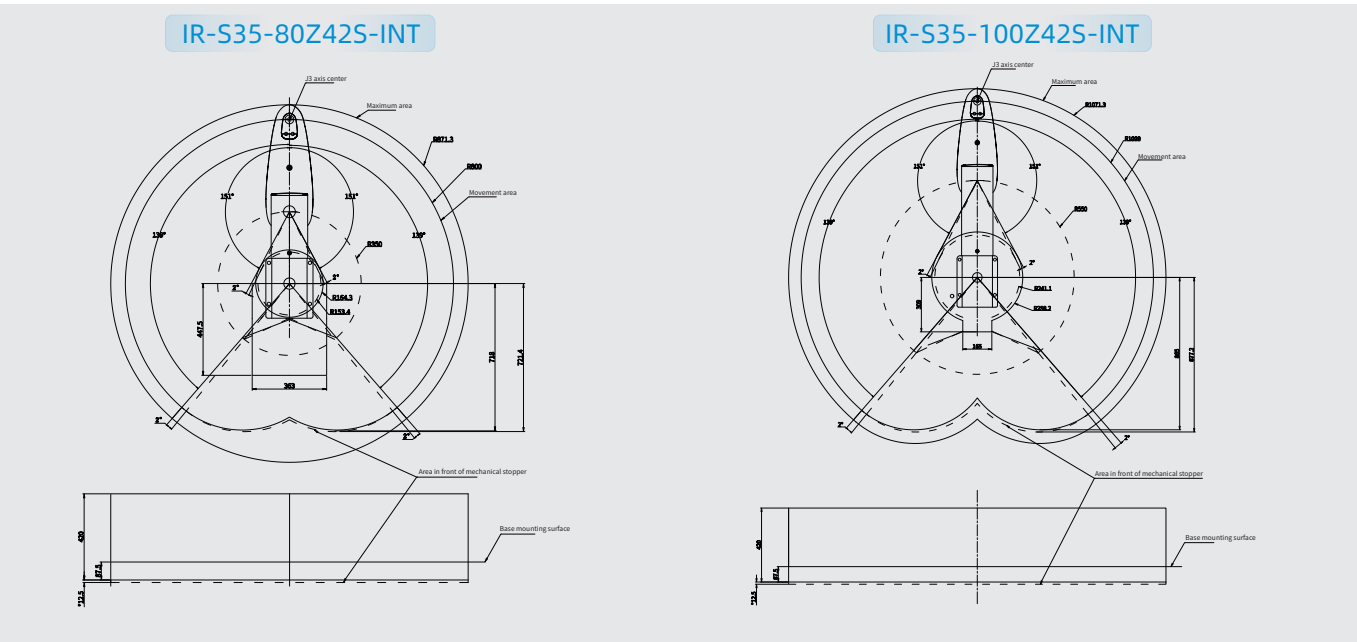
[2] Noise test conditions: 4 joint linkage, 100% speed and acceleration, duty cycle 50%, measurement position: the front of the robot, 1000mm away from the action area, and more than 50mm from the base mounting surface.

[3] Standard cycle time for 20kg SCARA : 2kg load, the time required for the robot to go back and forth with a gate command (300 mm horizontally, 25 mm vertically)

Mounting Dimensions(mm)



Motion Range(mm)

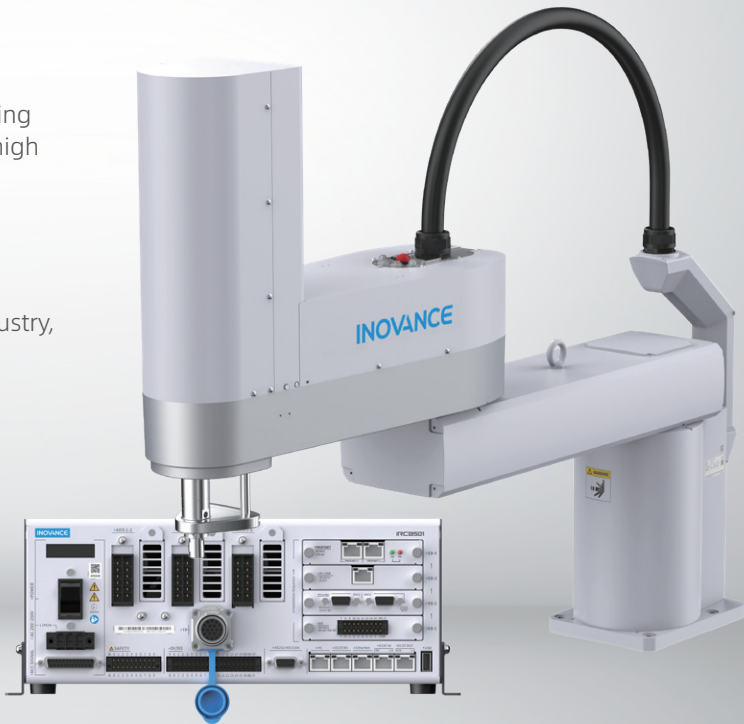


IR-S60 Series

The payload capacity can reach 60kg, larger than the same specifications in the industry. The cycle time is 0.84s, achieving top-tier speed in the industry, with features of high speed, high precision, and high rigidity.

Widely used in lithium battery manufacturing, general industry, and other handling and assembly scenarios.

Load	60 kg
Arm length	1200 mm
Efficiency	0.84s
Repeatability	J1 and J2: ± 0.05 mm J3: ± 0.02 mm; J4: $\pm 0.005^\circ$



Model		IR-S60-120Z40S-INT
Arm length	J1+J2(mm)	1200
	J1(mm)	600
	J2(mm)	600
Maximum speed	J1+J2(mm/s)	7400
	J3(mm/s)	1500
	J4(° /s)	600
Repeatability	J1+J2(mm)	±0.05
	J3(mm)	±0.02
	J4(°)	±0.005
Load	Rated(kg)	30
	Maximum(kg)	60
Permissible moment inertia of J4	Rated(kg·m²)	1.2
	Maximum(kg·m²)	2.45
Mounting base dimensions(mm)		200×200(4-Φ14)
Cable		Stand: 5m Optional: 3m/10m/15m/High Flexible (3m/5m/10m/15m)
Weight(excluding cables)		136kg
Press-in force of J3		450N
Customer signal line		25 signal lines 30V 0.5A
Customer air piping		CAT5E Φ6 mm × 2, 0.59 Mpa Φ8 mm × 2, 0.59 Mpa
Operating conditions	Ambient temperature ⁽¹⁾	5~40° C (no excessive temperature changes)
	Relative humidity	10~80%
Shipment Conditions	Ambient temperature	-10°C ~55°C
	Relative humidity	≤ 80% RH, non-condensing
Storage Conditions	Ambient temperature	-10°C ~55°C
	Relative humidity	≤ 80% RH, non-condensing
Noise level ⁽²⁾		LAeq ≤ 80dB(A)
Maximum motion range	J1(°)	±135
	J2(°)	±150
	J3(mm)	400
	J4(°)	±360
Standard cycle time(s) ⁽³⁾		0.84
Controller		IRCB501-4ED-INT
Certification		CE, cSGSus, FCC, Safety Function

- [1] If this product is used in a low temperature environment close to the lowest temperature of the product specification, or if it is suspended for a long time due to holidays and nights, it is recommended to warm up for 10 minutes before running
- [2] Noise test conditions: 4 joint linkage, 100% speed and acceleration, duty cycle 50%, measurement position: the front of the robot, 1000mm away from the action area, and more than 50mm from the base mounting surface.
- [3] Standard cycle time for 60kg SCARA : 5kg load, the time required for the robot to go back and forth with a gate command (300 mm horizontally, 25 mm vertically)

Technical drawing of a mechanical part, showing a top view (circular) and a side view (rectangular).

Top View Dimensions and Labels:

- J4 axis center:** Indicated by a vertical line passing through the center.
- Motion range:** Indicated by a curved line.
- Maximum range:** Indicated by a curved line.
- Angles:** 132°, 150°, 135°, 150°.
- Radii:** R600, R1200, R1275.3, R310.6.
- Dimensions:** 494, 356, 959.4.

Side View Dimensions and Labels:

- Area before the mechanical stop:** Indicated by a dashed line.
- Base mounting surface:** Indicated by a solid line.
- Dimensions:** 400, 2", 11.5", 19".

Note: The dimensions marked with * are different from the scale on the drawing

SCARA Robot

IR-GS60 Series

Star products in the field of SCARA robots with large load, high efficiency, high precision and high speed.

Scope of Application

Widely used in the upper and lower branch, precision assembly, handling, dispensing, locking screws, labeling, plug-ins. Sorting and other scenarios

Features

Load	60kg
Arm length	1200mm
Cycle time	0.67s
Repeatability	J1, J2: ±0.05mm, J3: ±0.02mm, J4: ±0.005°



Technical Data

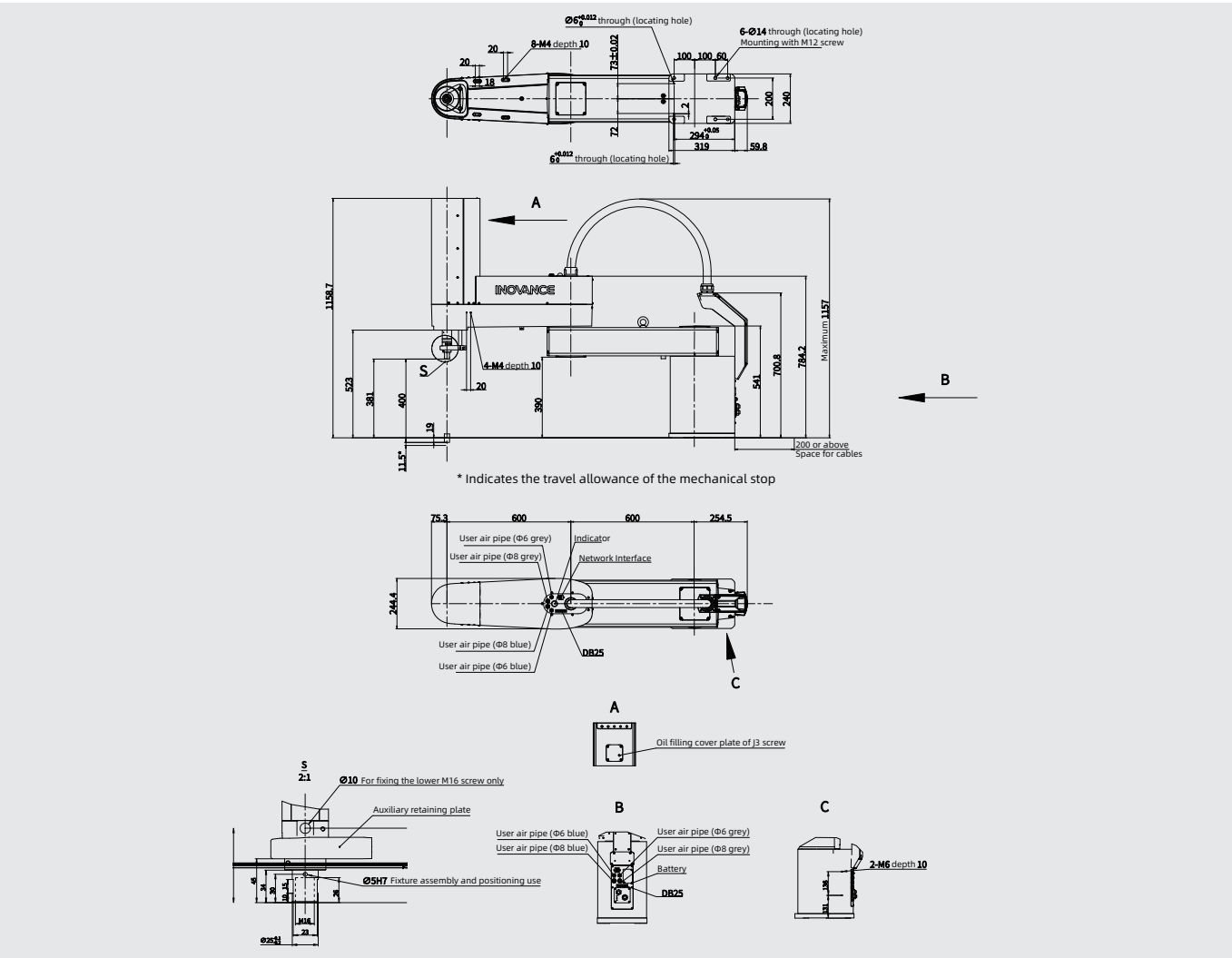
Model		IR-GS60-120Z40S-INT
Arm length	J1+J2(mm)	1200
	J1(mm)	600
	J2(mm)	600
Maximum speed	J1+J2(mm/s)	7400
	J3(mm/s)	1500
	J4(° /s)	600
Repeatability	J1+J2(mm)	±0.05
	J3(mm)	±0.02
	J4(°)	±0.005
Load	Rated(kg)	30
	Maximum(kg)	60
Permissible moment inertia of J4	Rated(kg·m ²)	1.2
	Maximum(kg·m ²)	2.45
Mounting base dimensions(mm)		200×200(4-Φ14)
Cable		Stand: 5m Optional: 3m/10m/15m/High Flexible (3m/5m/10m/15m)
Weight(excluding cables)		136kg
Press-in force of J3		450N
Customer signal line		25 signal lines 30V 0.5A
Customer air piping		CAT5E Φ6 mm × 2, 0.59 Mpa Φ8 mm × 2, 0.59 Mpa
Operating conditions	Ambient temperature ^[1]	5~40° C (no excessive temperature changes)
	Relative humidity	10~80%
Shipment Conditions	Ambient temperature	-10°C ~55°C
	Relative humidity	≤ 80% RH, non-condensing
Storage Conditions	Ambient temperature	-10°C ~55°C
	Relative humidity	≤ 80% RH, non-condensing
Noise level ^[2]		LAeq ≤ 80dB(A)
Maximum motion range	J1(°)	±135
	J2(°)	±150
	J3(mm)	400
	J4(°)	±360
Standard cycle time(s) ^[3]		0.67
Controller		IRCB501-4MD-INT
Certification		CE, cSGSUS, FCC, Safety Function

[1] If this product is used in a low temperature environment close to the lowest temperature of the product specification, or if it is suspended for a long time due to holidays and nights, it is recommended to warm up for 10 minutes before running

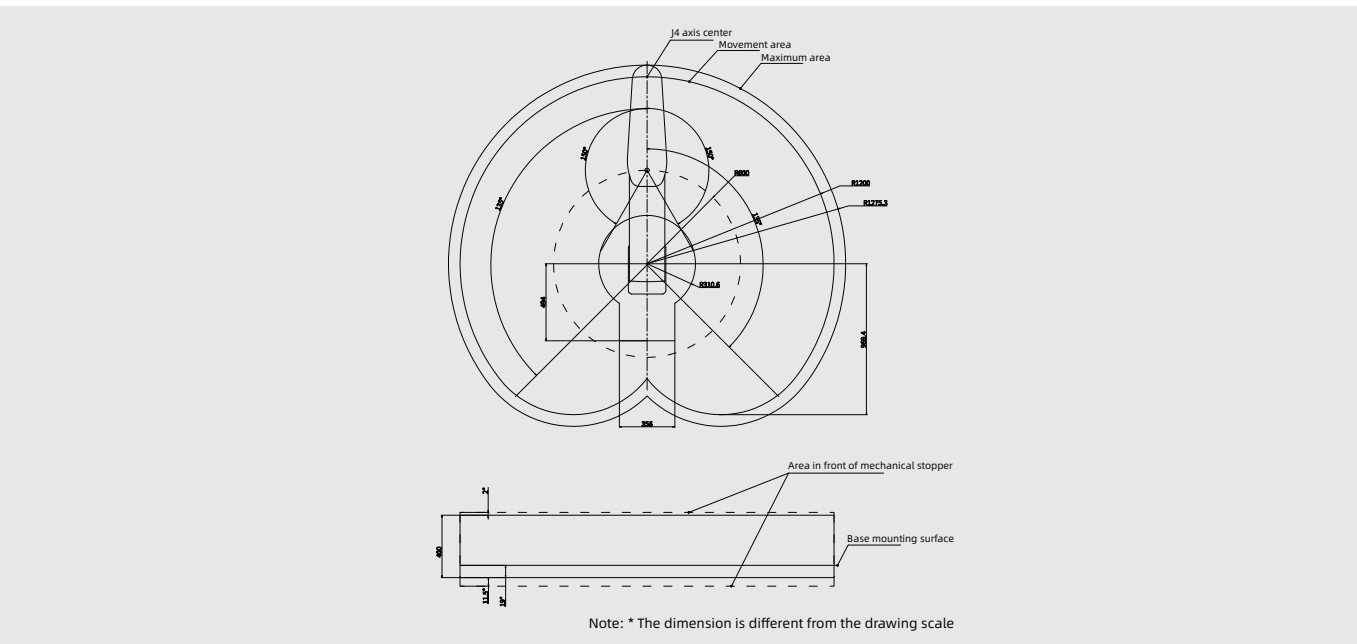
[2] Noise test conditions: 4 joint linkage, 100% speed and acceleration, duty cycle 50%, measurement position: the front of the robot, 1000mm away from the action area, and more than 50mm from the base mounting surface.

[3] Standard cycle time for 60kg SCARA : 5kg load, the time required for the robot to go back and forth with a gate command (300 mm horizontally, 25 mm vertically)

Mounting Dimensions(mm)



Motion Range(mm)



SCARA Robot

IR-TS4 Series

Robots with enhanced load capacity and multiple arm length options, suitable for large load applications in various industries.

Scope of Application

Assembly and dispensing in 3C industry, lithium battery industry, photovoltaic industry, and display industry.

Features

Load	4 kg
Arm length	350 mm
Cycle time	0.306s
Repeatability	J1-J3: ±0.01 mm; J4: ±0.01°



Technical Data

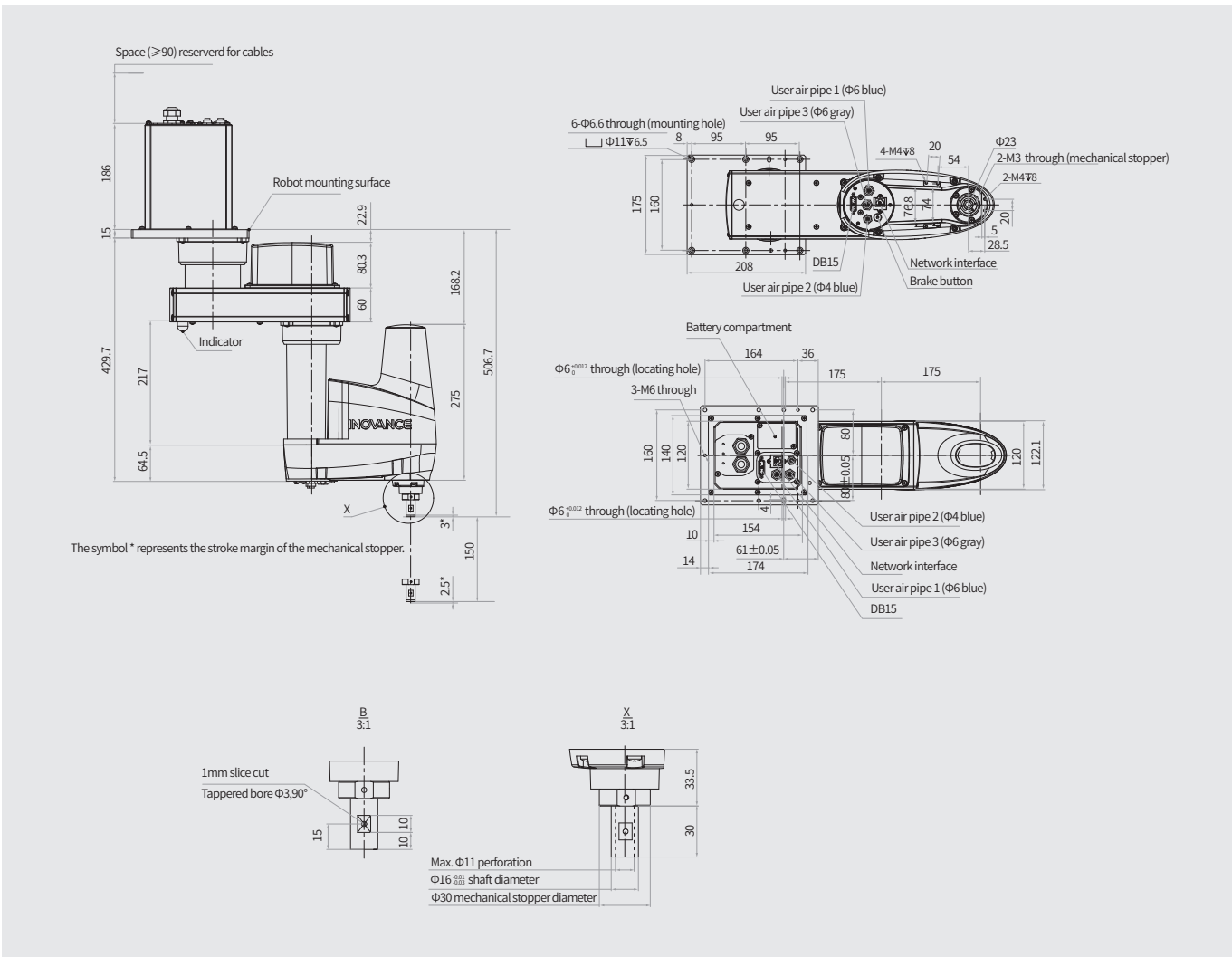
Model		IR-TS4-35Z15S-INT
Arm length	J1+J2(mm)	350
	J1(mm)	175
	J2(mm)	175
Maximum speed	J1+J2(mm/s)	6180
	J3(mm/s)	1300
	J4(°/s)	2600
	J1+J2(mm)	±0.01
Repeatability	J3(mm)	±0.01
	J4(°)	±0.01
Load	Rated(kg)	2
	Maximum(kg)	4
Permissible moment inertia of J4	Rated(kg·m ²)	0.005
	Maximum(kg·m ²)	0.05
Mounting base dimensions(mm)		95×95×160(6-Φ6.6)
Cable		Stand: 5m Optional: 3m/10m/15m/High Flexible (3m/5m/10m/15m)
Weight(excluding cables)		18.5kg
Press-in force of J3		100N
Customer signal line		15 (15pin:D-sub)
Customer air piping		CAT5E Φ6 mm × 2, 0.59 Mpa Φ4 mm × 1, 0.59 Mpa
Operating conditions	Ambient temperature ^[1]	5~40° C (no excessive temperature changes)
	Relative humidity	10~80%
Shipment Conditions	Ambient temperature	-10°C ~55°C
	Relative humidity	≤ 80% RH, non-condensing
Storage Conditions	Ambient temperature	-10°C ~55°C
	Relative humidity	≤ 80% RH, non-condensing
Noise level ^[2]		Laeq=70dB(A)
Maximum motion range	J1(°)	±225
	J2(°)	±225
	J3(mm)	150
	J4(°)	±720
Standard cycle time(s) ^[3]		0.306
Controller		IRCB501-4CD-INT
Certification		KCs, KC, CE, cSGSus, FCC, Safety Function

[1] If this product is used in a low temperature environment close to the lowest temperature of the product specification, or if it is suspended for a long time due to holidays and nights, it is recommended to warm up for 10 minutes before running

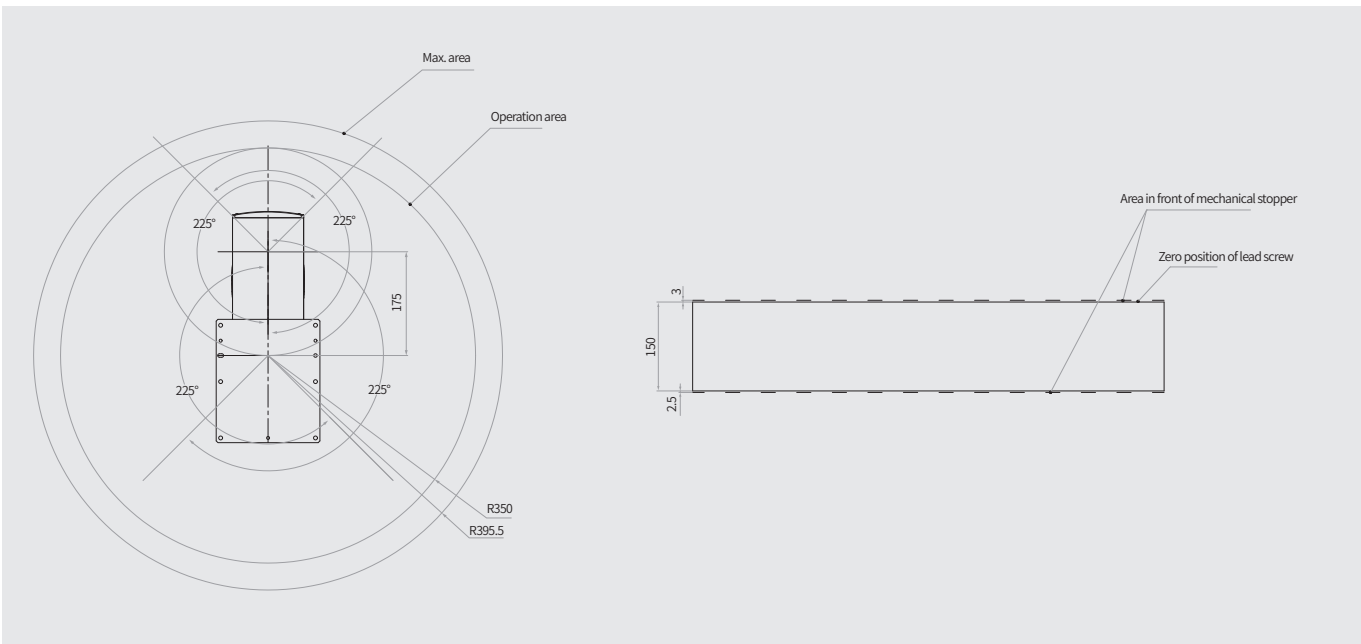
[2] Noise test conditions: 4 joint linkage, 100% speed and acceleration, duty cycle 50%, measurement position: the front of the robot, 1000mm away from the action area, and more than 50mm from the base mounting surface.

[3] Standard cycle time for 4kg Inverted SCARA : 1kg load, the time required for the robot to go back and forth with a gate command (300 mm horizontally, 25 mm vertically)

Mounting Dimensions(mm)



Motion Range(mm)



SCARA Robot

IR-TS5 Series

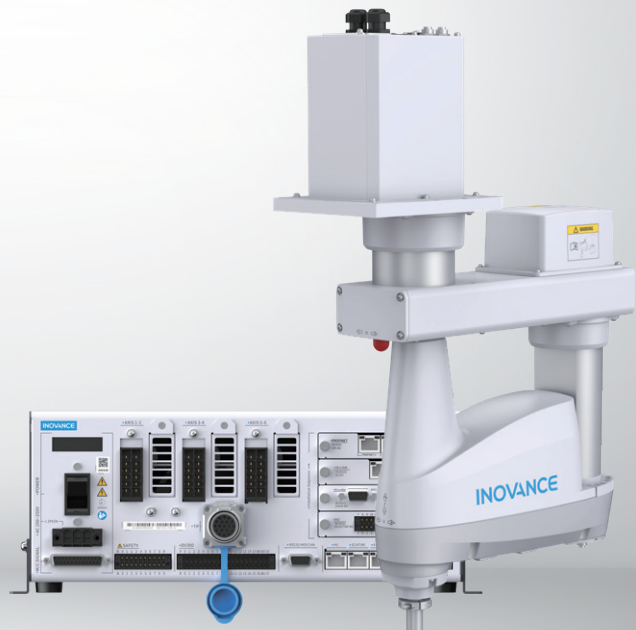
Robots with enhanced load capacity and multiple arm length options, suitable for large load applications in various industries.

Scope of Application

Assembly and dispensing in 3C industry, lithium battery industry, photovoltaic industry, and display industry.

Features

Load	5 kg
Arm length	550 mm
Cycle time	0.351s
Repeatability	J1 and J2: ±0.015 mm; J3: 0.01 mm; J4: ±0.01°



Technical Data

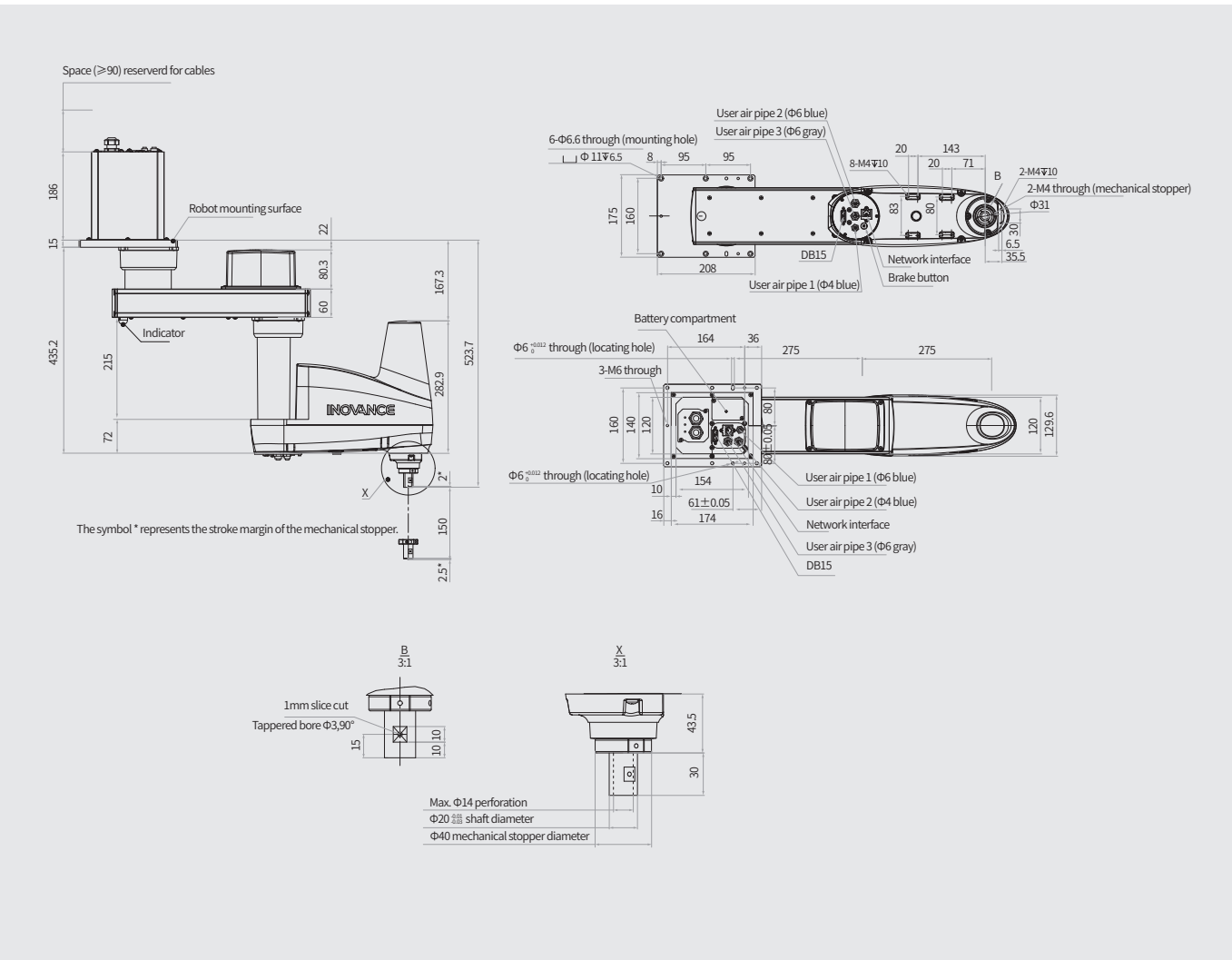
Model		IR-TS5-55Z15S-INT
Arm length	J1+J2(mm)	550
	J1(mm)	275
	J2(mm)	275
Maximum speed	J1+J2(mm/s)	9712
	J3(mm/s)	1300
	J4(°/s)	2000
	J1+J2(mm)	±0.015
Repeatability	J3(mm)	±0.01
	J4(°)	±0.01
Load	Rated(kg)	2
	Maximum(kg)	5
Permissible moment inertia of J4	Rated(kg·m ²)	0.01
	Maximum(kg·m ²)	0.12
Mounting base dimensions(mm)		95×95×160(6-Φ6.6)
Cable		Stand: 5m Optional: 3m/10m/15m/High Flexible (3m/5m/10m/15m)
Weight(excluding cables)		20kg
Press-in force of J3		150N
Customer signal line		15 (15pin:D-sub)
Customer air piping		CAT5E Φ6 mm × 2, 0.59 Mpa Φ4 mm × 1, 0.59 Mpa
Operating conditions	Ambient temperature ^[1]	5~40° C (no excessive temperature changes)
	Relative humidity	10~80%
Shipment Conditions	Ambient temperature	-10°C ~55°C
	Relative humidity	≤ 80% RH, non-condensing
Storage Conditions	Ambient temperature	-10°C ~55°C
	Relative humidity	≤ 80% RH, non-condensing
Noise level ^[2]		Laeq=70dB(A)
Maximum motion range	J1(°)	±225
	J2(°)	±225
	J3(mm)	150
	J4(°)	±720
Standard cycle time(s) ^[3]		0.351
Controller		IRCB501-4CD-INT
Certification		KCs, KC, CE, cSGSus, FCC, Safety Function

[1] If this product is used in a low temperature environment close to the lowest temperature of the product specification, or if it is suspended for a long time due to holidays and nights, it is recommended to warm up for 10 minutes before running

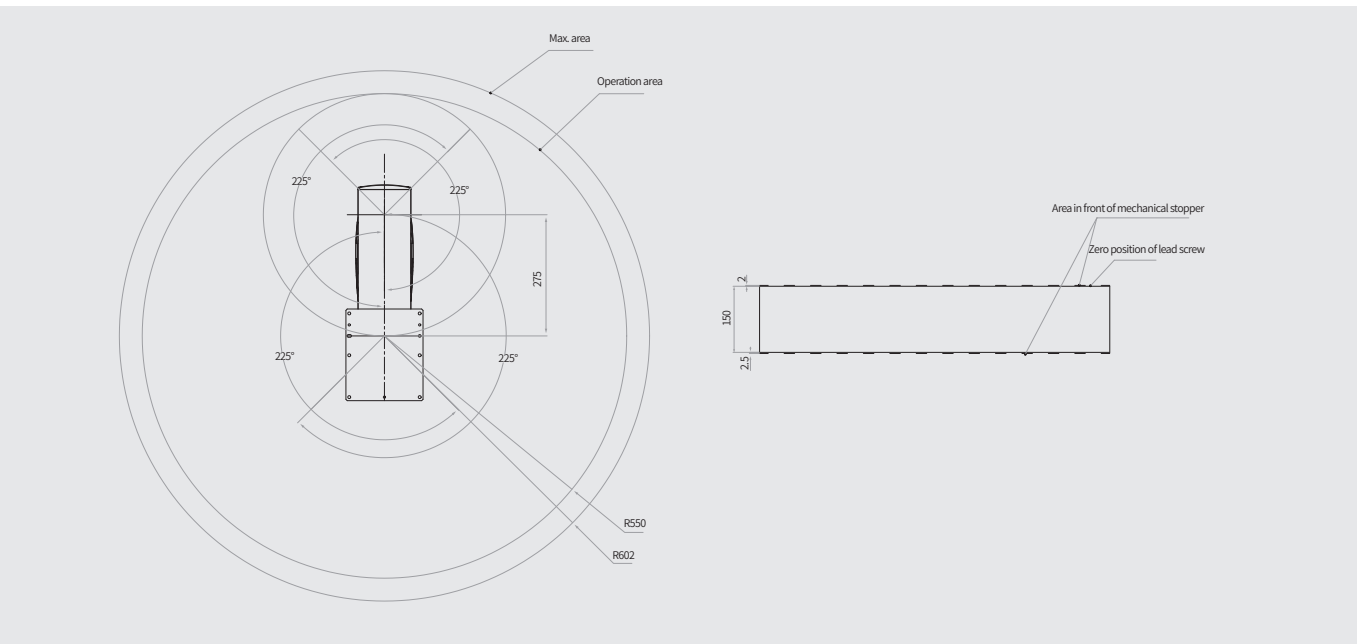
[2] Noise test conditions: 4 joint linkage, 100% speed and acceleration, duty cycle 50%, measurement position: the front of the robot, 1000mm away from the action area, and more than 50mm from the base mounting surface.

[3] Standard cycle time for 5kg Inverted SCARA : 1kg load, the time required for the robot to go back and forth with a gate command (300 mm horizontally, 25 mm vertically)

Mounting Dimensions(mm)



Motion Range(mm)



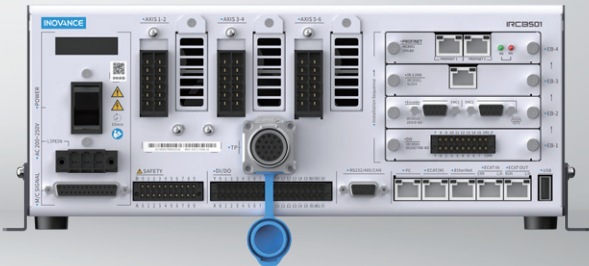
Robot Controller

IRCB501 Series

Robot controllers featuring delicate structure, abundant functions, easy installation, and easy extension to meet the market demands for compact structure, flexible production and productivity boost in 3C industry.

Applicable Robots

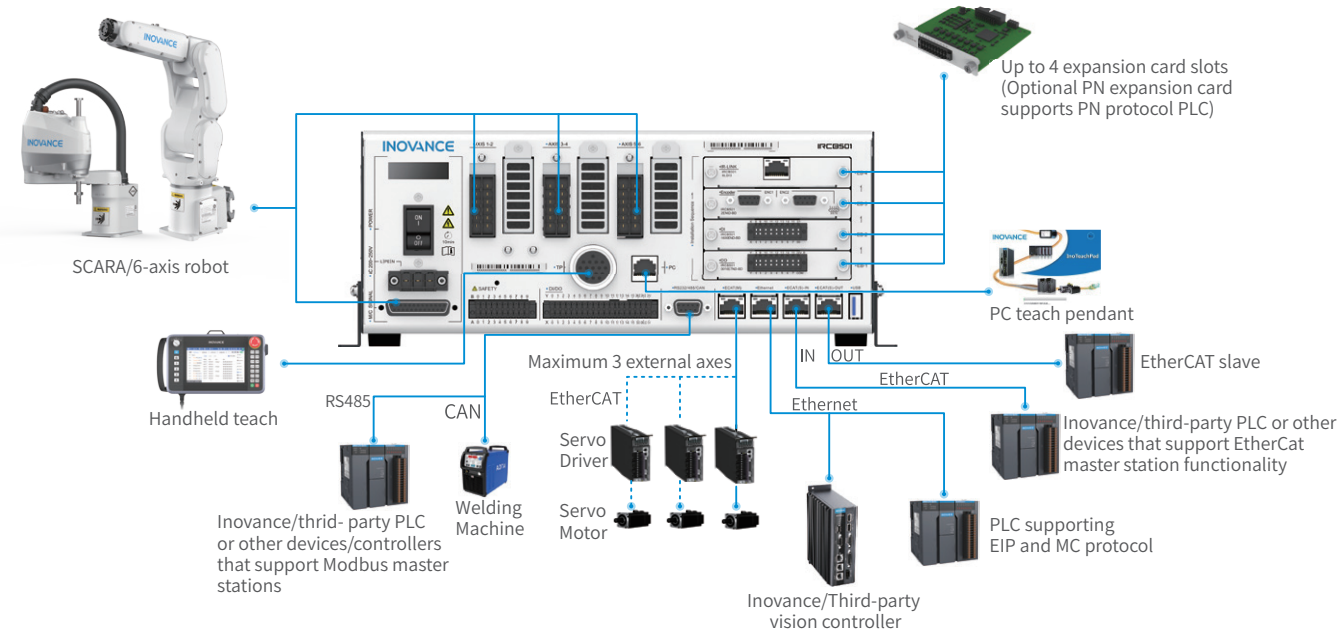
SCARA Robot	IR-S4/7/10 Series	●
	IR-S25 Series	●
	IR-S35 Series	●
	IR-S60 Series	●
6-Axis Robot	IR-TS4/5 Series	●
	IR-R7H Series	●
	IR-R4/R4H Series	●
	IR-R11 Series	●
	IR-R15H Series	●



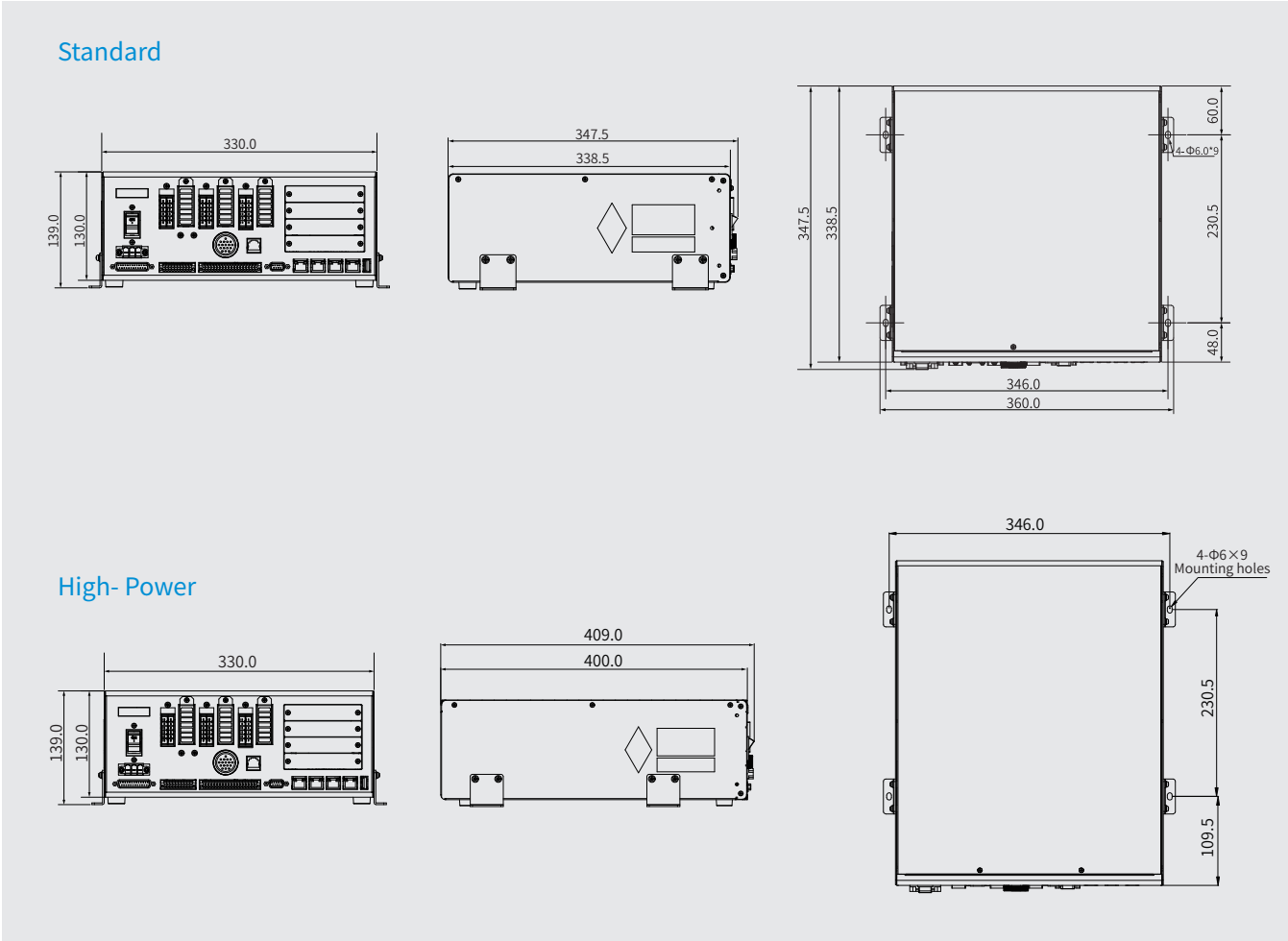
Technical Data

Mounting mode	Vertical mounting, horizontal mounting, 19" rack mounting	
Standard I/Os	16 inputs and 16 NPN outputs (extendable)	
Communication interfaces	Ethernet interface: Used for TCP/IP, Modbus TCP, Ethernet/IP, MC communication	
	EtherCAT-IN interface: EtherCAT slave -IN interface	
	EtherCAT-OUT interface: EtherCAT master -OUT interface	
	EtherCAT interface: Used for extension of external axes	
	RS232/RS485 interface: Used for serial and Modbus RTU communication (RS485 only)	
	USB2.0 interface: Used for backup/upload programs and export robot status information	
Control mode	Optional interface: Profinet slave , CC-LINK slave	
	PC programming platform control, teach pendant control, remote I/O control, remote Modbus control, and API control	
	Input voltage:Single-phase 200 VAC to 240 VAC, 10A/20A, 50 Hz to 60 Hz	
Power supply	Max. power consumption: 3.1 kW (depending on the robot model)	
	IP rating	
Operating conditions	Temperature: 5° C to 40°C ; Relative humidity: 20% to 95% RH@30° C (non-condensing)	
Dimensions	Standard	High- Power
	330mm×338.5mm×130mm	330mm×400mm×130mm
Weight	8kg	10kg
Applicable Robots	SCARA: IR-S4/7/10 Series IR-TS4/5 Series 6-Axis: IR-R7H Series IR-R4/R4H Series	SCARA: IR-S25 Series IR-S35 Series IR-S60 Series 6-Axis: IR-R11 Series IR-R15H Series

System Topology



Mounting Dimensions(mm)



Robot Controller

IRCB501

High-Protection Series

Integrating drive and control functions, the IRCB501 high-protection series features delicate structure, abundant functions, easy installation, and easy extension. It is widely used in automotive, die casting, machine tools, packaging and other industrial automation industries, as well as medical, laboratory automation and consumer product automation production industries.

Applicable Robots

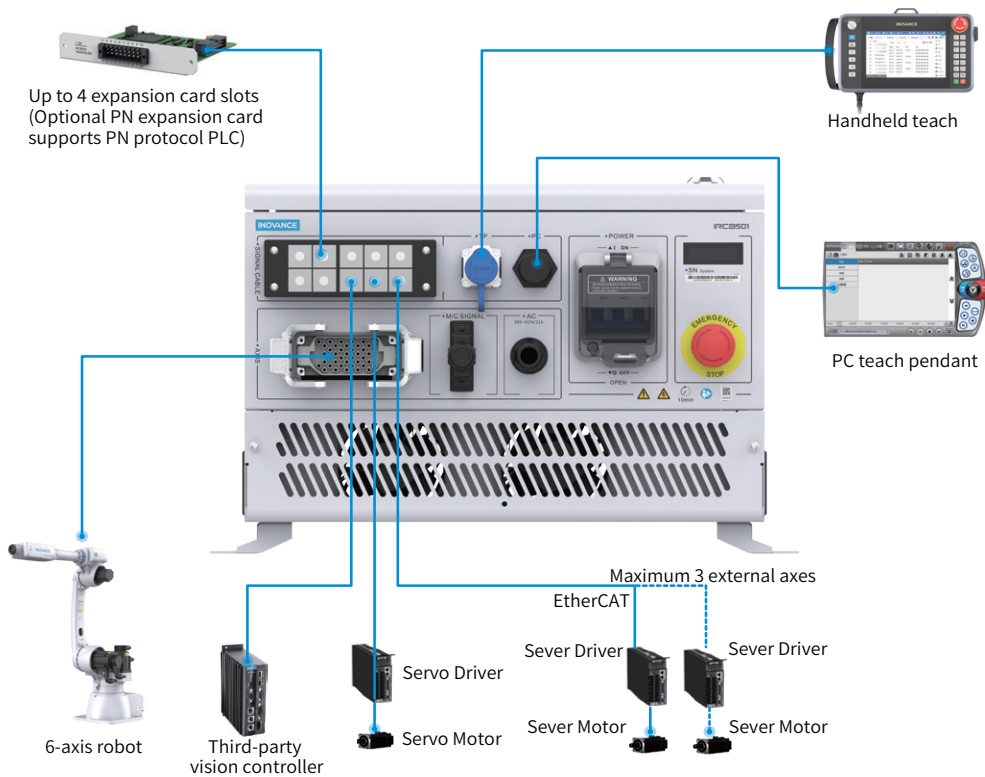
6-Axis Robot	IR-R10 Series	●
	IR-R25 Series	●



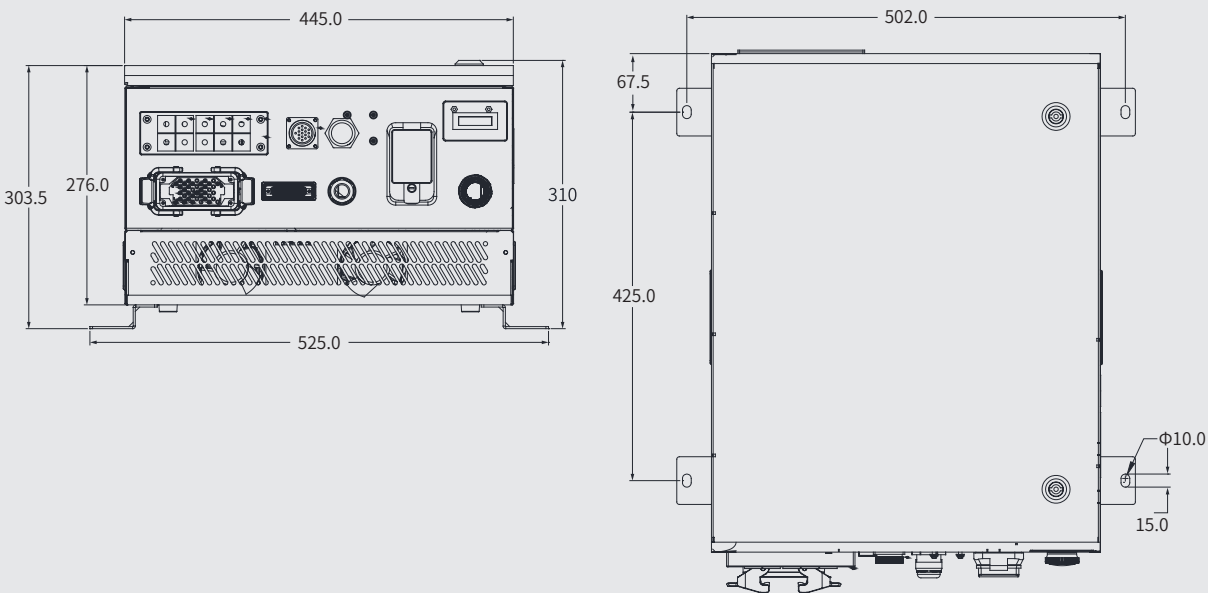
Technical Data

Mounting mode	Vertical mounting, horizontal mounting, rack mounting
Standard I/Os	16 inputs and 16 NPN outputs (extendable)
Communication interfaces	Ethernet interface: Used for TCP/IP, Modbus TCP, Ethernet/IP, MC communication
	EtherCAT-IN interface: EtherCAT slave -IN interface
	EtherCAT-OUT interface: EtherCAT master -OUT interface
	EtherCAT interface: Used for extension of external axes
	RS232/RS485 interface: Used for serial and Modbus RTU communication (RS485 only)
	USB2.0 interface: Used for backup/upload programs and export robot status information
Control mode	Optional interface: Profinet slave , CC-LINK slave
	PC programming platform control, teach pendant control, remote I/O control, remote Modbus control, and API control
Power supply	Input voltage:Single-phase 200 VAC to 250 VAC, 23A, 50 Hz to 60 Hz
	Max. power consumption:4.5 kW (depending on the robot model)
Operating conditions	IP54 + anti metal dust
Dimensions	Temperature: 0° C to 45° C; Relative humidity: 20% to 95% RH@30° C (non-condensing)
Dimensions	445mm×575mm×276mm
Weight	30kg
Applicable Robots	6-Axis: IR-R10 Series, IR-R25 Series

System Topology



Mounting Dimensions(mm)



IR-TP200 Series

Teaching Pendant 2.0 New Upgrade

Software advantages



Easy to edit

- Wizard-style instruction modification to achieve quick editing and replacement of instructions



Easy to manage

- Quick navigation, one-click direct access to common functions; Tab-type program, one-click direct sub-program, 6axis scenario, no matter how many sub-programs there are, it will not be messy



Wizard process module

- Visual calibration, palletizing process, following process and other integrated process package modules are provided, so that programmers can quickly complete the setting of relevant process parameters according to the process production guide, with rich functions, friendly operation interface and high usability.



Easy to commission

- Floating window system design, extreme jump reduction

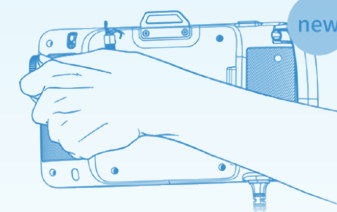


Excellent Experience

- Global Prompt System Optimized for a More Comfortable User Experience
- Log system optimization, more flexible and precise, adaptable to various needs
- User-friendly guided operation



Hardware advantage



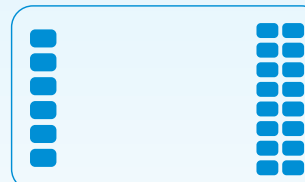
Excellent Experience

- Optimize the long-term one-handed holding experience



Safer

- Three-position switch, CE certified
- Self-locking slot and spring pen cord, anti-lost design



Ultimate Tactile Sensation

- Extreme tactile sensation, soft and labor-saving
- Feedback is clear, facilitating the optimization of operation layout, More convenient access to all buttons



More user-friendly

- Large screen, integrated panel design



Efficient and reliable

- One-step accurate insertion
- Threadless snap fastener ensures no slipping

List of Robot Models

6-Axis Robot

Model		IR-R4-56S-INT	IR-R4H-54S-INT	IR-R7H-70S-INT	IR-R7H-90S-INT	IR-R11-90S-INT	IR-R10-110S-INT	IR-R10H-120S-INT
Structural style		Vertical axis cascading structure						
Number of Axes		6 axes						
Maximum reach (mm)		560.6	545.7	722.3	911.9	901.9	1101.6	1201.2
Repeatability (mm)		±0.01	±0.02	±0.015	±0.02	±0.02	±0.02	±0.025
Maximum Load(kg)		4	4	7	7	11.3	10	10
IP rating		IP40(IP67 optional)						
Max.Speed	J1 (° /s)	450	450	420	336	240	240	240
	J2 (° /s)	460	460	336	280	180	180	180
	J3 (° /s)	520	520	487.5	390	330	330	330
	J4 (° /s)	560	560	550	550	450	450	450
	J5 (° /s)	560	560	438	438	420	420	420
	J6 (° /s)	900	900	764.7	764.7	720	720	720
Maxi-mummotion range	J1 (°)	±170	±170	±170	±170	±170	±170	±170
	J2 (°)	-120~~+110	-120~~+110	-135~~+80	-125~~+80	-135~~+100	-135~~+100	-135~~+100
	J3 (°)	-69~~+205	-65~~+195	-70~~+190	-70~~+190	-66~~+210	-66~~+210	-66~~+210
	J4 (°)	±190	±190	±190	±190	±190	±190	±190
	J5 (°)	±120	±120	±120	±120	±125	±125	±125
	J6 (°)	±360	±360	±360	±360	±360	±360	±360
Allowed wrist torque	J4 (N·m)	8.86	8.86	16.9	16.9	20.45	18.59	18.59
	J5 (N·m)	8.86	8.86	16.9	16.9	20.45	18.59	18.59
	J6 (N·m)	4.9	4.9	9.4	9.4	10.8	9.8	9.8
Allowed wrist inertia	J4 (N·m)	0.2	0.2	0.49	0.49	0.6	0.6	0.6
	J5 (N·m)	0.2	0.2	0.49	0.49	0.6	0.6	0.6
	J6 (N·m)	0.067	0.067	0.15	0.15	0.2	0.2	0.2
Customer connections	Wiring	12 signal lines 30V 0.5A		17 signal lines 30V 0.5A		12 signal lines 30V 0.5A		17 signal lines 30V 0.5A
	Air	Φ4 mm × 4, 0.59 Mpa						
Operating conditions	Ambient temperature(° C)	0~45						
	Relative humidity	5% to 95% RH (non-condensing)						
	Maximum Temperature Gradient(° C/min)	1.5						
Shipment Conditions	Ambient temperature(°C)	0~45						
	Relative humidity	≤ 95% RH,non-condensing						
Storage Conditions	Ambient temperature(°C)	-10~55						
	Relative humidity	≤ 95% RH, non-condensing						
Cable		Stand:5m optional: 3m/10m/15m/High Flexible(3m/5m/10m/15m)						
Weight		24kg	24.5kg	31kg	33kg	45kg	48kg	50kg
Controller		IRCB501-6LD-INT				IRCB501-6FD-INT		
Mounting mode		Floor mounted/Ceiling mounted/Wall mounted						
Certification		Kcs, KC, CE, cSGSus, FCC, Safety Function, Optional: Cleanliness Class 3						

List of Robot Models

6-Axis Robot

Model		IR-R15H-145S-K-INT	IR-R20H-120S-K-INT	IR-R10-140S-INT	IR-R16-210S-INT	IR-R25-178S-INT
Structural style		Vertical axis cascading structure				
Number of Axes		6 axes				
Maximum reach (mm)		1455	1218	1422	2107	1783
Repeatability (mm)		±0.04	±0.04	±0.05	±0.03	±0.03
Maximum Load(kg)		15	20	10	16	25
IP rating		IP40(IP67 optional)		Body: IP65 Wrist: IP67		
Max.Speed	J1 (° /s)	260	260	200	190	190
	J2 (° /s)	240	240	200	175	175
	J3 (° /s)	260	260	200	200	200
	J4 (° /s)	470	470	375	400	400
	J5 (° /s)	450	450	375	360	360
	J6 (° /s)	705	705	600	610	610
Maxi-mummotion range	J1 (°)	±170	±170	±170	±170	±170
	J2 (°)	-160~~+90	-160~~+90	-160~~+60	-155~~+80	-155~~+80
	J3 (°)	-76~~+210	-76~~+210	-80~~+160	-75~~+160	-75~~+160
	J4 (°)	±190	±190	±180	±180	±180
	J5 (°)	±140	±140	±140	±140	±140
	J6 (°)	±360	±360	±360	±360	±360
Allowed wrist torque	J4 (N·m)	26.5	35	22	25	50
	J5 (N·m)	26.5	35	22	25	50
	J6 (N·m)	12	20	9.8	12	30
Allowed wrist inertia	J4 (N·m)	0.9	1	0.63	0.78	2.2
	J5 (N·m)	0.9	1	0.63	0.78	2.2
	J6 (N·m)	0.3	0.4	0.2	0.3	1.5
Customer connections	Wiring	24 signal lines 30V 0.5A		18 signal lines 30V 0.5A		
	Air	Φ6 mm × 4, 0.59 Mpa		Φ8 mm × 1, 0.59 Mpa		
Operating conditions	Ambient temperature(° C)	0~45				
	Relative humidity	5% to 95% RH(non-condensing)		10% to 80% RH (non-condensing)	5% to 95% RH(non-condensing)	
	Maximum Temperature Gradient(° C/min)	1.5				
Shipment Conditions	Ambient temperature(°C)	0~45				
	Relative humidity	≤ 95% RH,non-condensing		≤ 80% RH, non-condensing	≤ 95% RH,non-condensing	
Storage Conditions	Ambient temperature(°C)	-10~55				
	Relative humidity	≤ 95% RH,non-condensing		≤ 80% RH, non-condensing	≤ 95% RH,non-condensing	
Cable		Stand:5m optional: 3m/10m/15m/High Flexible(3m/5m/10m/15m)				
Weight		155kg	150kg	130kg	260kg	255kg
Controller		IRCB501-6KD-INT		IRCB501-6ND-INT		
Mounting mode		Stand:5m optional: 3m/10m/15m/High Flexible(3m/5m/10m/15m)		Floor mounted		
Certification		Kcs, KC, CE, cSGSus, FCC,Safety Function, Optional: Cleanliness Class 4		Kcs, KC, CE, cSGSus, FCC, Safety Function		

List of Robot Models

SCARA Robot

Model		IR-S4-40Z15S-INT	IR-S7-50Z20S-INT	IR-S7-60Z20S-INT	IR-S7-70Z20S-INT	IR-S10-60Z20S-INT	IR-S10-70Z20S-INT	IR-S10-80Z20S-INT
Arm length	J1+J2(mm)	400	500	600	700	600	700	800
	J1(mm)	225	225	325	425	225	325	425
	J2(mm)	175	275	275	275	375	375	375
Maximum speed	J1+J2(mm/s)	7200	7120	7850	8590	9100	9800	10500
	J3(mm/s)	1300	1600	1600	1600	1600	1600	1600
	J4(° /s)	2600	2000	2000	2000	2700	2700	2700
Repeatability	J1+J2(mm)	±0.01	±0.02	±0.02	±0.02	±0.02	±0.02	±0.025
	J3(mm)	±0.01	±0.01	±0.01	±0.01	±0.01	±0.01	±0.01
	J4(°)	±0.01	±0.01	±0.01	±0.01	±0.01	±0.01	±0.01
Load	Rated(kg)	2	3	3	3	5	5	5
	Maximum(kg)	4	7	7	7	10	10	10
Permissible moment inertia of J4	Rated(kg·m ²)	0.005	0.01	0.01	0.01	0.02	0.02	0.02
	Maximum(kg·m ²)	0.05	0.12	0.12	0.12	0.3	0.3	0.3
Mounting base dimensions(mm)		120×120 (4-Φ9)	150×150 (4-Φ9)	150×150 (4-Φ9)	150×150 (4-Φ9)	150×150 (4-Φ9)	150×150 (4-Φ9)	150×150 (4-Φ9)
Cable		Stand: 3m Optional: 5m/10m/15m/High Flexible (3m/5m/10m/15m)						
Weight(excluding cables)		12kg	17kg	17.5kg	19kg	18.5kg	19kg	20.5kg
Press-in force of J3		100N	150N	150N	150N	200N	200N	200N
Customer signal line		15 signal lines 30V 0.5A						
		CAT5E						
Customer air piping		Φ6 mm × 2, 0.59 Mpa						
		Φ4 mm × 1, 0.59 Mpa						
Operating conditions	Ambient temperature ^[1]	5~40° C (no excessive temperature changes)						
	Relative humidity	10~80%	10~80%	10~80%	10~80%	10~80%	10~80%	10~80%
Shipment Conditions	Ambient temperature	-10°C ~55°C	-10°C ~55°C	-10°C ~55°C	-10°C ~55°C	-10°C ~55°C	-10°C ~55°C	-10°C ~55°C
	Relative humidity	≤ 80% RH,non-condensing						
Storage Conditions	Ambient temperature	-10°C ~55°C	-10°C ~55°C	-10°C ~55°C	-10°C ~55°C	-10°C ~55°C	-10°C ~55°C	-10°C ~55°C
	Relative humidity	≤ 80% RH, non-condensing						
Noise level ^[2]		LAeq=70dB(A)						
Maximum motion range	J1(°)	±132	±132	±132	±132	±132	±132	±132
	J2(°)	±141	±150	±150	±150	±150	±150	±150
	J3(mm)	150	200	200	200	200	200	200
	J4(°)	±360	±360	±360	±360	±360	±360	±360
Standard cycle time(s) ^[3]		0.342	0.351	0.36	0.375	0.361	0.386	0.416
Controller		IRCB501-4AD-INT	IRCB501-4CD-INT					
Certification		KCs, KC, CE, cSGSus, FCC, Safety Function , Optional: Cleanliness Class 4						

[1] If this product is used in a low temperature environment close to the lowest temperature of the product specification, or if it is suspended for a long time due to holidays and nights, it is recommended to warm up for 10 minutes before running

[2] Noise test conditions: 4 joint linkage, 100% speed and acceleration, duty cycle 50%, measurement position: the front of the robot, 1000mm away from the action area, and more than 50mm from the base mounting surface.

[3] Standard cycle time for 4kg SCARA: 1kg load, the time required for the robot to go back and forth with a gate command (300 mm horizontally, 25 mm vertically)
Standard cycle time for 7kg/10kg SCARA : 2kg load, the time required for the robot to go back and forth with a gate command (300 mm horizontally, 25 mm vertically)
Standard cycle time for 25kg SCARA : 2kg load, the time required for the robot to go back and forth with a gate command (300 mm horizontally, 25 mm vertically)
Standard cycle time for 35kg SCARA : 2kg load, the time required for the robot to go back and forth with a gate command (300 mm horizontally, 25 mm vertically)
Standard cycle time for 60kg SCARA : 5kg load, the time required for the robot to go back and forth with a gate command (300 mm horizontally, 25 mm vertically)
Standard cycle time for 4kg/5kg Inverted SCARA : 1kg load, the time required for the robot to go back and forth with a gate command (300 mm horizontally, 25 mm vertically)

List of Robot Models

SCARA Robot

Model		S25-80Z42S-INT	S25-100Z42S-INT	S25-120Z42S-INT	S35-80Z42S-INT	S35-100Z42S-INT	S35-120Z42S-INT	S60-120Z40S-INT	G560-120Z40S-INT	TS4-35Z15S-INT	TS5-55Z15S-INT
Arm length	J1+J2(mm)	800	1000	1200	800	1000	1200	1200	1200	350	550
	J1(mm)	350	550	750	350	550	750	600	600	175	275
	J2(mm)	450	450	450	450	450	450	600	600	175	275
Maximum speed	J1+J2(mm/s)	8100	9400	9400	8100	9400	9400	7400	7400	6180	9712
	J3(mm/s)	2100	2100	1200	2100	2100	1200	1500	1500	1300	1300
	J4(° /s)	705	705	705	705	705	705	600	600	2600	2000
Repeatability	J1+J2(mm)	±0.05	±0.05	±0.08	±0.05	±0.05	±0.08	±0.05	±0.05	±0.01	±0.015
	J3(mm)	±0.01	±0.01	±0.01	±0.01	±0.01	±0.01	±0.02	±0.02	±0.01	±0.01
	J4(°)	±0.01	±0.01	±0.01	±0.01	±0.01	±0.01	±0.005	±0.005	±0.01	±0.01
Load	Rated(kg)	10	10	10	20	20	20	30	30	2	2
	Maximum(kg)	25	25	25	35	35	35	60	60	4	5
Permissible moment inertia of J4	Rated(kg·m²)	0.5	0.5	0.5	0.6	0.6	0.6	1.2	1.2	0.005	0.01
	Maximum(kg·m²)	1.2	1.2	1.2	1.2	1.2	1.2	2.45	2.45	0.05	0.12
Mounting base dimensions(mm)		200×200(4-Φ16)									95×95×160(6-Φ6.6)
Cable		Stand: 5m Optional: 3m/10m/15m/High Flexible (3m/5m/10m/15m)									
Weight(excluding cables)		68.5kg	72.5kg	78kg	70.5kg	74.5kg	80.5kg	136kg	136kg	18.5kg	20kg
Press-in force of J3		250N	250N	250N	250N	250N	250N	450N	450N	100N	150N
Customer signal line		25 signal lines 30V 0.5A									15 (15pin:D-sub)
		CAT5E									
Customer air piping		Φ6 mm × 2, 0.59 Mpa									
		Φ8 mm × 2, 0.59 Mpa									Φ4 mm × 1, 0.59 Mpa
Operating conditions	Ambient temperature ^[1]	5~40° C (no excessive temperature changes)									
	Relative humidity	10~80%									
Shipment Conditions	Ambient temperature	-10°C ~55°C									
	Relative humidity	≤ 80% RH, non-condensing									
Storage Conditions	Ambient temperature	-10°C ~55°C									
	Relative humidity	≤ 80% RH, non-condensing									
Noise level ^[2]		LAeq ≤ 80dB(A)								Laeq=70dB(A)	
Maximum motion range	J1(°)	±139	±139	±139	±139	±139	±139	±135	±135	±225	±225
	J2(°)	±151	±151	±151	±151	±151	±151	±150	±150	±225	±225
	J3(mm)	420	420	420	420	420	420	400	400	150	150
	J4(°)	±360	±360	±360	±360	±360	±360	±360	±360	±720	±720
Standard cycle time(s) ^[3]		0.33	0.35	0.4	0.31	0.33	0.42	0.84	0.67	0.306	0.351
Controller		IRCB501-4ED-INT							IRCB501-4MD-INT	IRCB501-4CD-INT	
Certification		KCs, KC, CE, cSGS _{us} , FCC, Safety Function , Optional: Cleanliness Class 4						CE, cSGS _{us} , FCC, Safety Function		KCs, KC, CE, cSGS _{us} , FCC, Safety	

[1] If this product is used in a low temperature environment close to the lowest temperature of the product specification, or if it is suspended for a long time due to holidays and nights, it is recommended to warm up for 10 minutes before running

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List of Robot Models

Teach Pendant Model

Code	Model	Description
01640055	IR-TP200-L5-INT	Robot teach pedant 2.0, 5m cable
01640056	IR-TP200-L10-INT	Robot teach pedant 2.0, 10m cable
01640057	IR-TP200-L30-INT	Robot teach pedant 2.0, 30m cable
01640058	IR-TP200-L20-INT	Robot teach pedant 2.0, 30m cable

Expansion Card

Type	Code	Model	Description
IRCB501 Series IRCB501 High-Protection Series	01650025	IRCB501-2ENID-BD	2-channel differential input incremental encoder expansion card
	01650026	IRCB501-1600END-BD	General I/O expansion card with 16 inputs
	01650027	IRCB501-0016ETND-BD	General I/O expansion card with 16 NPN outputs
	01650028	IRCB501-2PN-BD	PROFINET slave expansion card
	01650030	IRCB501-FS-01-BD	Safety function expansion card
	01441093	GL20-RTU-ECT32-INT	IO Module-GL20-RTU-ECT32-INT-GL20 series EtherCAT (auto scan) communication module-PI new color
	01441085	GL20-1600END-INT	IO Module-GL20-1600END-INT-GL20 series 16-channel digital input module-PI new color
	01441069	GL20-0016ETP-INT	IO Module-GL20-0016ETP-INT-GL20 series 16-channel digital transistor PNP output module-PI new color
	01441063	GL20-0016ETN-INT	IO Module-GL20-0016ETN-INT-GL20 series16-channel digital transistor NPN output module-PI new color
	01441089	GL20-4DA-INT	IO Module-GL20-4DA-INT-GL20 series 4-channel analog output module-PI new colorIO
	01441075	GL20-4AD-INT	IO Module-GL20-4AD-INT-GL20 series 4-channel analog input module-PI new color

Naming Rules

IR - G S 4 - 40 Z15 S - * - INT
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① Product Family IR: INOVANCE Robot	④ Load(kg) 4: 4kg 50: 50kg	⑦ Environment S: Standard P: High-Protection(IP67)
② Series Identification Empty: Standard Version G: High Performance Version (When Choose High Performance Version, Please contact INOVANCE technical support)	⑤ Arm length(mm) 40: Arm length 400mm 200: Arm length 2000mm	
	③ Product Class S: SCARA robot TS: Inverted SCARA robot R: 6-axis robot	⑥ Maximum travel of Z-axis Empty: Without screw,6Axis Robots Z15: The maximum stroke value is 150mm Z42: The maximum stroke value is 420mm

NOTES

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REMARKS