

Heavy-duty Desktop Series

EFORT

The heavy-duty desktop robot series has a strong load capacity and a wide range of work, and is precise, efficient, flexible and compact, which can significantly improve production efficiency.

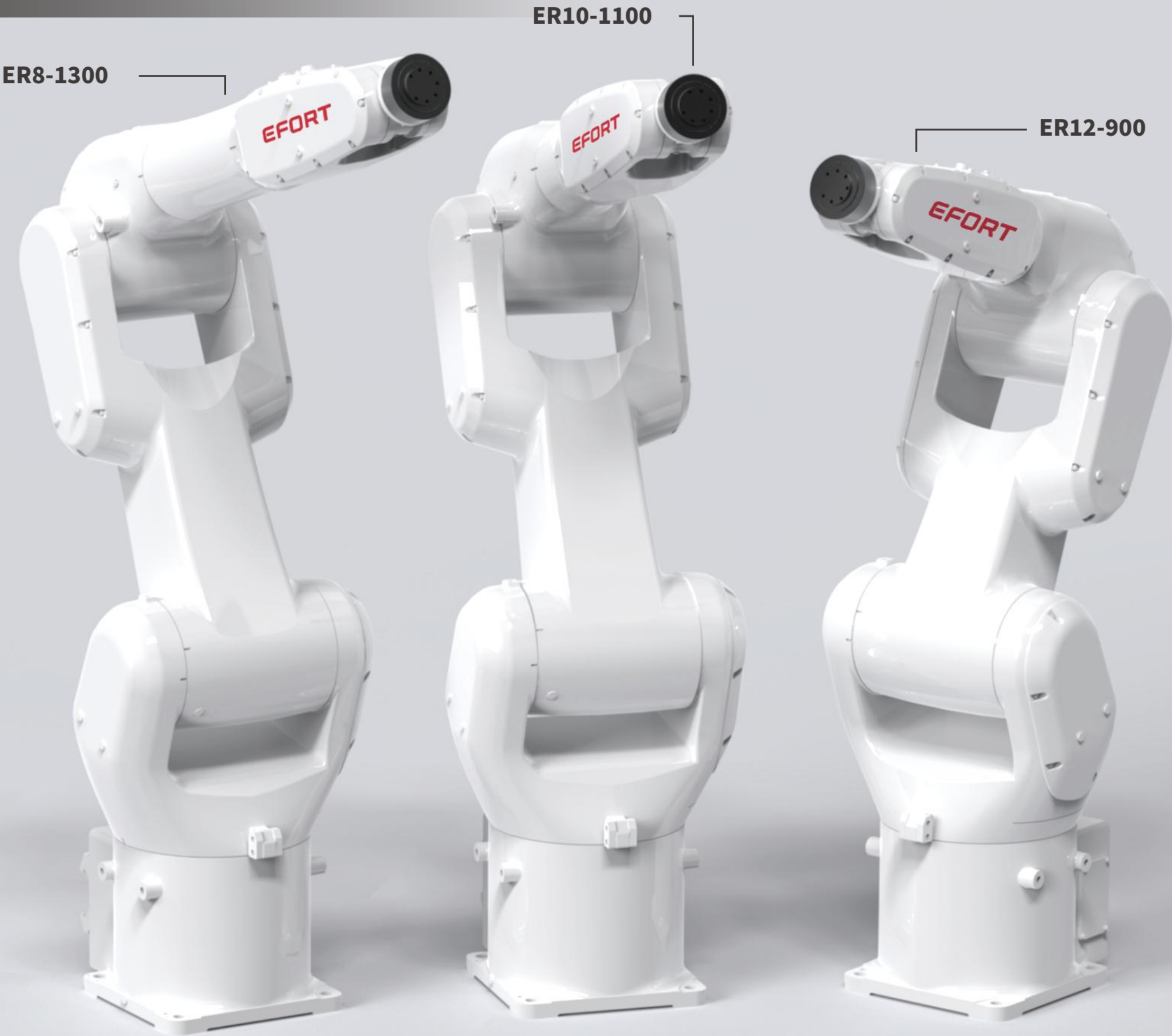
01 Highlights

The heavy-duty desktop series includes multiple versions with load/work ranges of 8kg/1.3m, 10kg/1.1m, and 12kg/0.9m, suitable for electronic manufacturing, Automotive components, PV Solar, Li-ion battery, general and other industries.

-  It features high precision with a design that combines high rigidity and lightweight construction, achieving a repeat positioning accuracy of up to 0.02mm.
-  The robot has a compact structure with a fully enclosed IP67 design, occupying only 260mm*260mm of space and enabling deployment in narrow and confined spaces.
-  It also offers high efficiency with a standard door cycle time of 0.42s, and strong load capacity and wide work range.
-  The robot wrist has a higher torque, inertia, and rigidity, ensuring high performance.

02 Main Applications

Handling Operations, Testing, Assembling, Grinding, Polishing, Arc welding.



ER8-1300

ER8-1300,
Maxium payload 8 kg with maxium reach 1291 mm.

- Applications
- It can be used in handling operations(machine tending), sorting, assembling, grinding, polishing, Arc welding,etc.
- Industries
- Suitable for PCB, electronic manufacturing, plastic, metal parts and other industries.



EFORT Intelligent Robot Co., Ltd.
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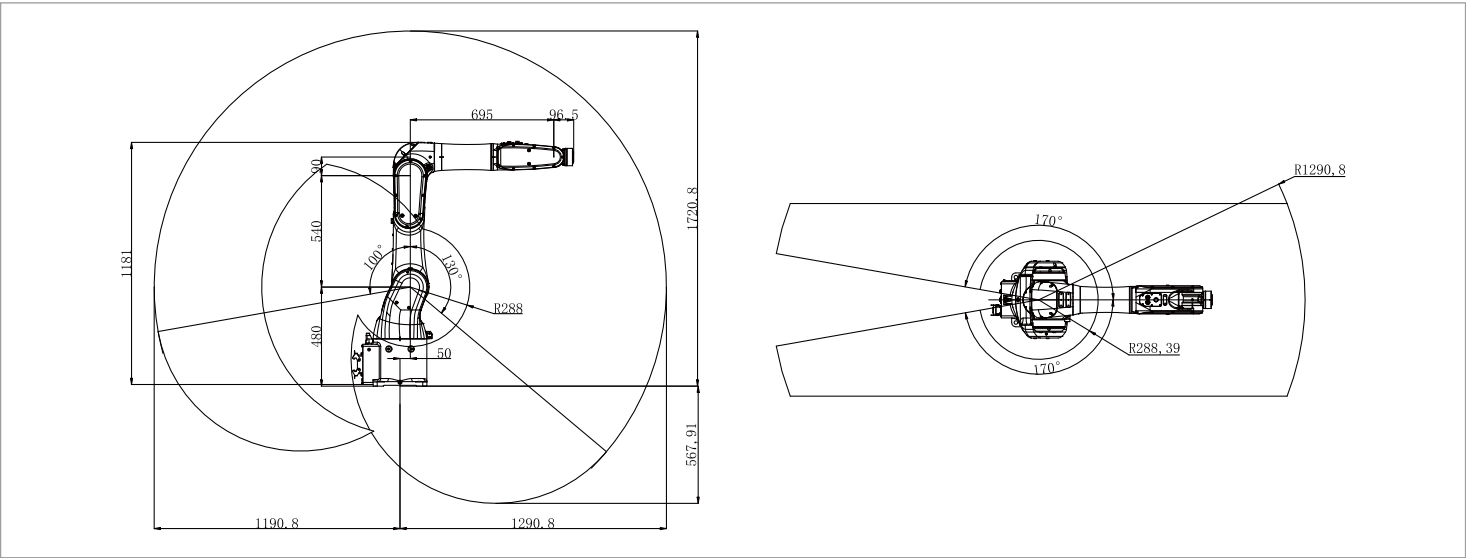
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SPECIFICATIONS

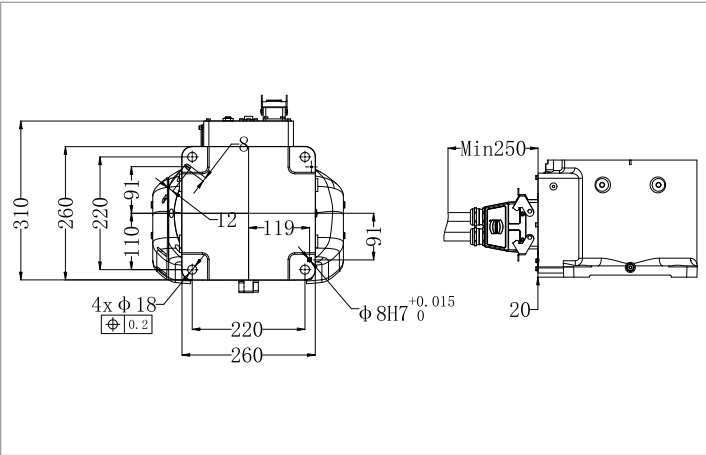
Model		ER8-1300
Type		Articulated
Controlled axes		6 Axes
Max. payload on wrist		8 kg
Repeatability		±0.03 mm
Robot weight		80 kg
Reach		1291 mm
Robot IP grade		IP65 / IP67 (Wrist)
Cabinet IP grade		IP20 / IP54 (Optional)
Drive mode		AC servo drive
Installation		Floor, Upside-down, Wall
Installation enviroment	Ambient temperature	0~45 °C
	Ambient humidity	RH≤80% (No dew nor frost allowed)
	Vibration acceleration	4.9 m/s ² (<0.5 G)

Allowable load moment at wrist	J4	25 N•m
	J5	25 N•m
	J6	12 N•m
Allowable load inertia at wrist	J4	0.78 kg•m ²
	J5	0.78 kg•m ²
	J6	0.3 kg•m ²
Maximum speed	J1	230°/sec
	J2	190°/sec
	J3	240°/sec
	J4	500°/sec
	J5	420°/sec
	J6	720°/sec
Motion range	J1	±170°
	J2	+100°/-130°
	J3	+193°/-75°
	J4	±190°
	J5	±120°
	J6	±360°

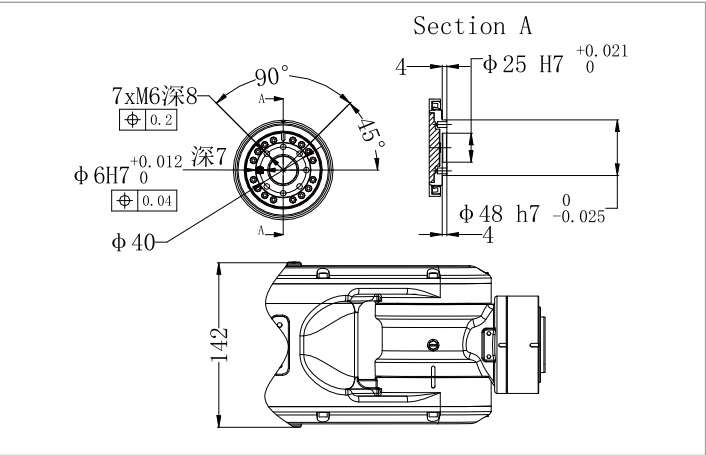
OPERATING SPACE



BASE MOUNTING SIZE



END FLANGE MOUNTING SIZE



*The final interpretation right belongs to EFORT Intelligent Robot Co., Ltd. Any updates will be made without prior notice.

ER10-1100

ER10-1100,
Maxium payload 10 kg with maxium reach 1142 mm.

■ Applications

It can be used in handling operations(machine tending), sorting, assembling, grinding, polishing, Arc welding,etc.

■ Industries

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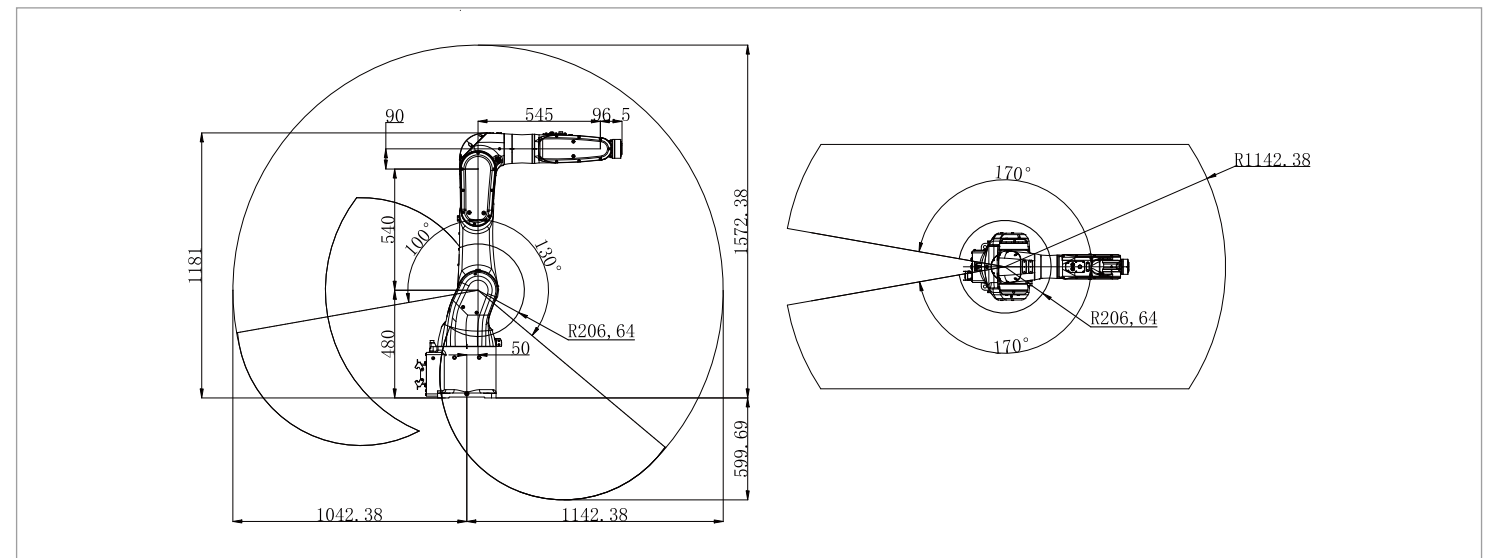
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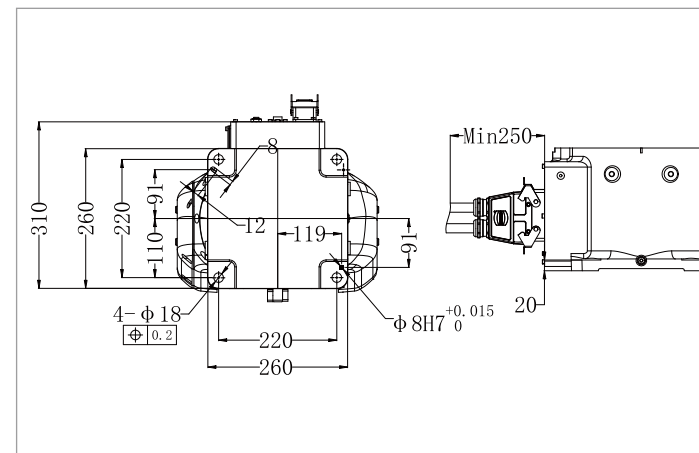
Model		ER10-1100
Type		Articulated
Controlled axes		6 Axes
Max. payload on wrist		10 kg
Repeatability		±0.025 mm
Robot weight		78 kg
Reach		1142 mm
Robot IP grade		IP65 / IP67 (Wrist)
Cabinet IP grade		IP20 / IP54 (Optional)
Drive mode		AC servo drive
Installation		Floor, Upside-down, Wall
Installation enviroment	Ambient temperature	0~45 °C
	Ambient humidity	RH≤80% (No dew nor frost allowed)
	Vibration acceleration	4.9 m/s ² (<0.5 G)

Allowable load moment at wrist	J4	25 N•m
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	J3	+193°-75°
	J4	±190°
	J5	±120°
	J6	±360°

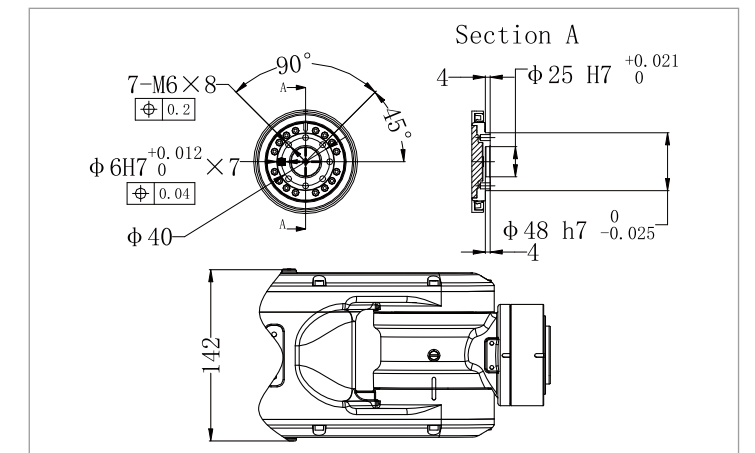
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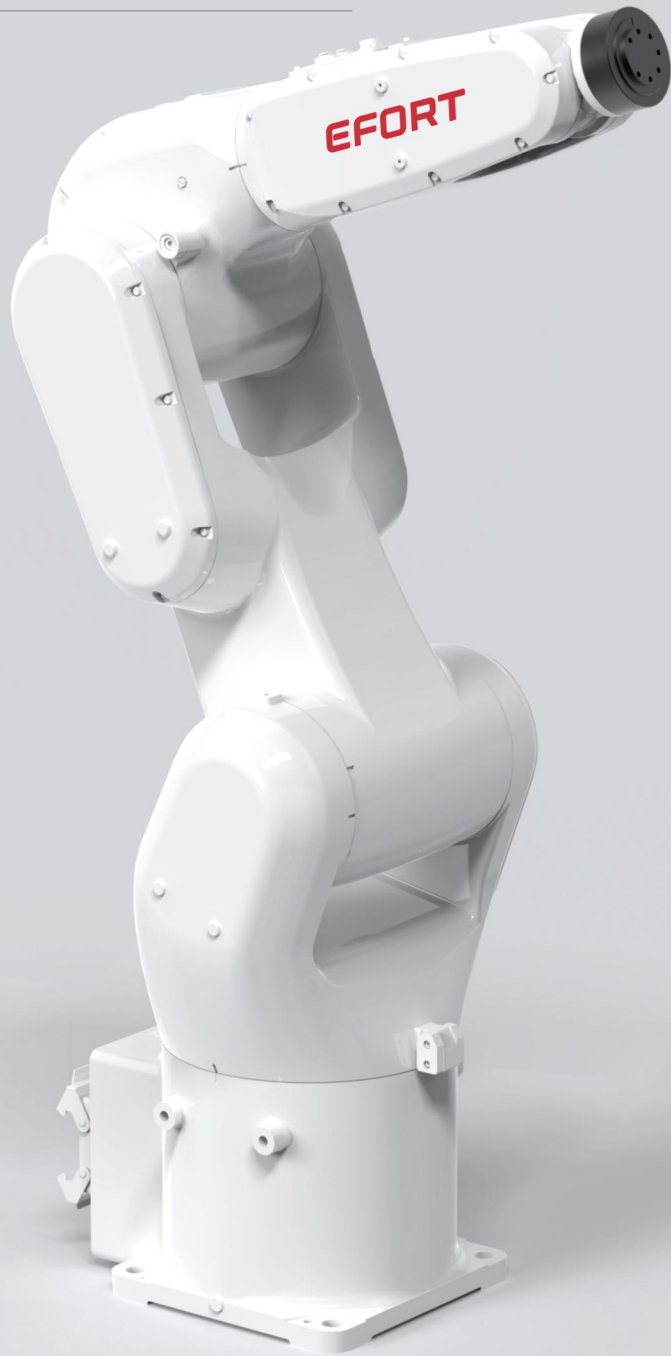
ER12-900

ER12-900,
Maxium payload 12 kg with maxium reach 944 mm.

- Applications

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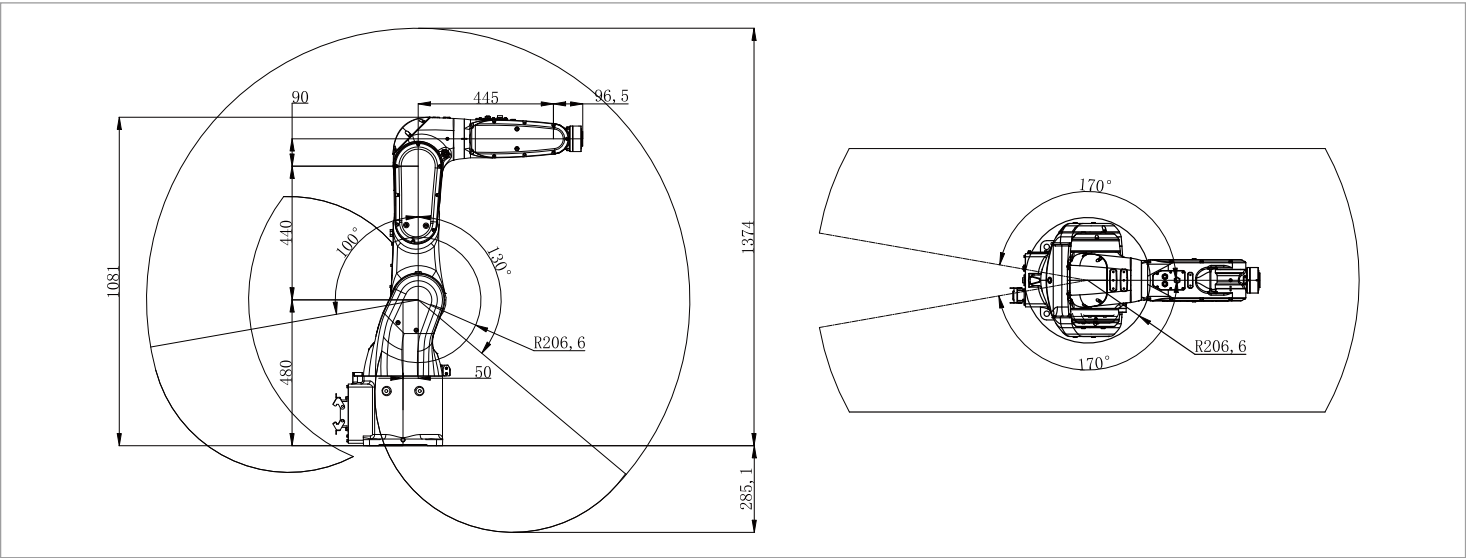
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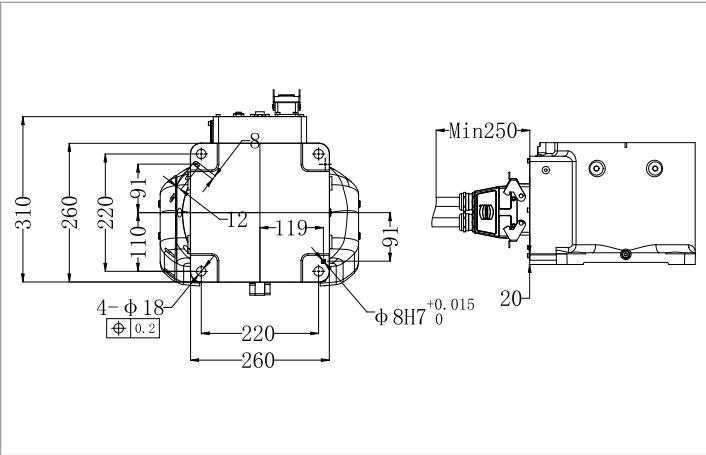
Model		ER12-900
Type		Articulated
Controlled axes		6 Axes
Max. payload on wrist		12 kg
Repeatability		±0.02 mm
Robot weight		75 kg
Reach		944 mm
Robot IP grade		IP65 / IP67 (Wrist)
Cabinet IP grade		IP20 / IP54 (Optional)
Drive mode		AC servo drive
Installation		Floor, Upside-down, Wall
Installation enviroment	Ambient temperature	0~45 °C
	Ambient humidity	RH≤80% (No dew nor frost allowed)
	Vibration acceleration	4.9 m/s ² (<0.5 G)

Allowable load moment at wrist	J4	25 N·m
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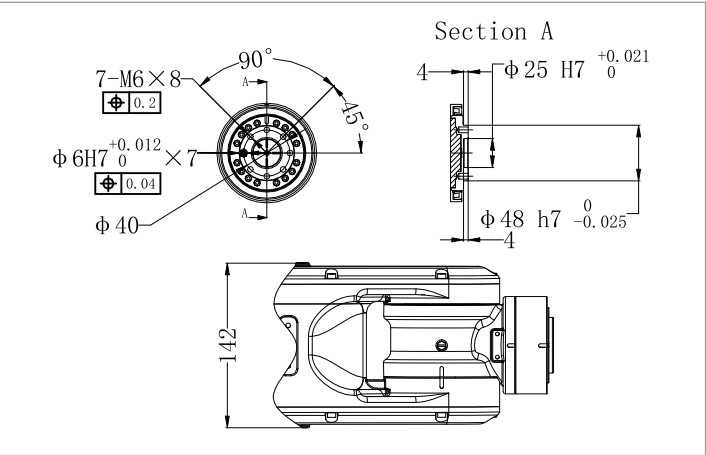
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