



KR 8 R1640-2 arc HW



Technical data

Maximum reach	1641 mm
Rated payload	8 kg
Maximum payload	10.7 kg
Maximum supplementary load, rotating column / link arm / arm	-
Pose repeatability (ISO 9283)	± 0.04 mm
Number of axes	6
Mounting position	Floor; Ceiling
Footprint	333.5 mm x 307 mm
Weight	approx. 172 kg

Axis data

Motion range	
A1	±170 °
A2	-185 ° / 65 °
A3	-119 ° / 181 °
A4	±165 °
A5	-115 ° / 140 °
A6	±350 °
Speed with rated payload	
A1	220 °/s
A2	210 °/s
A3	270 °/s
A4	430 °/s
A5	430 °/s
A6	628 °/s

Operating conditions

Ambient temperature during operation	0 °C to 55 °C (273 K to 328 K)
Cleanroom class (ISO 14644-1)	Class 5 at 40% override; Class 5 at 80% override

Protection rating

Protection rating (IEC 60529)	IP65
Protection rating, robot wrist (IEC 60529)	IP54

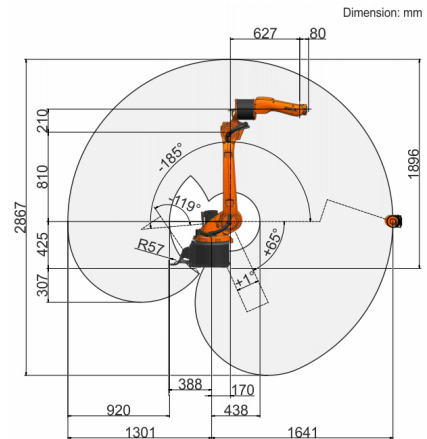
Controller

Controller	KR C5
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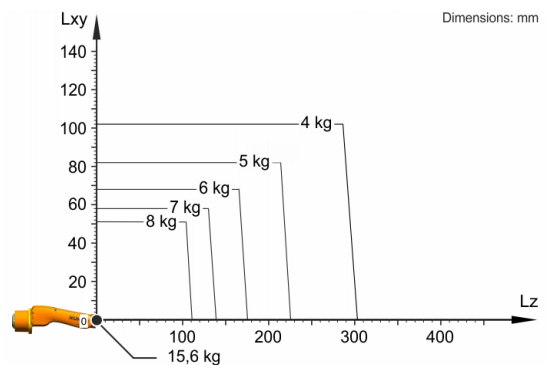
Certificates

ESD requirements	IEC61340-5-1; ANSI/ESD S20.20
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Workspace graphic



Payload diagram



The KR 8 R1640-2 arc HW is designed for a rated payload of 8 kg in order to optimize the dynamic performance of the robot. The maximum payload of 10.7 kg applies only if the position of the center of mass is 0 mm and a supplementary load optimized for the load case is mounted. The specific load case must be verified using KUKA.Load or KUKA.Compose. For further consultation, please contact KUKA Support.

Mounting flange

