KR 6 R700 Z170 HO

Technical data

Designation	KR 6 R700 Z170 HO
Number of axes	4
Pose repeatability XY	± 0.02 mm
Pose repeatability Z	± 0.01 mm
Pose repeatability R	± 0.01 °
Weight	approx. 22 kg
Rated payload	3 kg
Maximum payload	6 kg
Maximum reach	700 mm
Mounting position	Floor
Footprint	262 mm x 190 mm

Axis data

Motion range	
Motion range, axis 1	±132 °
Motion range, axis 2	±145 °
Motion range, axis 3	-170 mm / 0 mm
Motion range, axis 4	±355 °
Speed with rated payload	
Axis velocity, axis 1	420 °/s
Axis velocity, axis 2	720 °/s
Axis velocity, axis 3	0.95 m/s
Axis velocity, axis 4	2000 °/s

Operating conditions

Ambient temperature during operation	0 °C to 45 °C (273 K to 318 K)
Cleanroom class (ISO 14644-1)	-

Protection rating

Protection rating (IEC 60529)	IP54

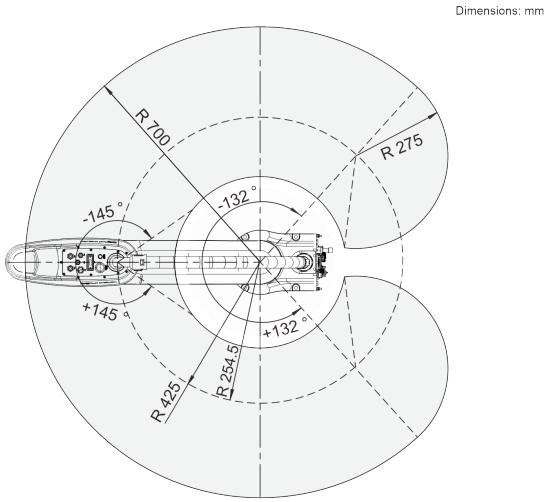
Controller

Controller	KR C5 micro-2; KR C5 micro

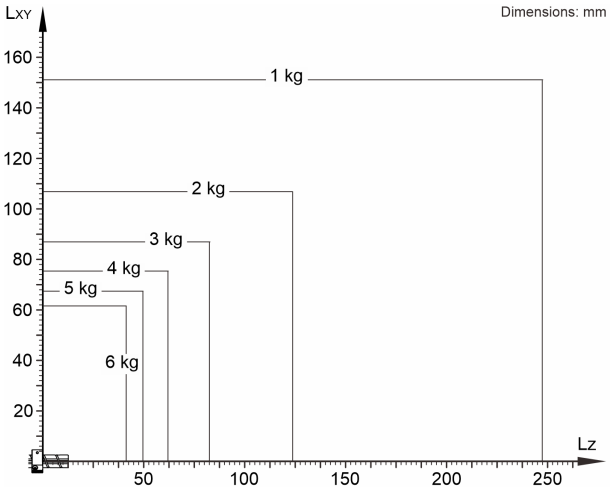
Certificates

ESD requirements	IEC61340-5-1; ANSI/ESD S20.20
Certificates	CE/UL

Workspace graphic



Payload diagram



The KR 6 R700 Z170 HO is designed for a rated payload of 3 kg in order to optimize the dynamic performance of the manipulator. With the reduced load center distances, higher loads up to the maximum payload may be used. The specific load case must be verified using KUKA.Load. For further consultation, please contact KUKA Support.

Cycle time

152 cycles per minute (25 mm / 300 mm / 25 mm, 1 kg)

Details provided about the properties and usability of the products are purely for information purposes and do not constitute a guarantee of these characteristics. The extent of goods delivered and services performed is determined by the subject matter of the specific contract. No liability accepted for errors or omissions.
0000-447-194 / V2.1 / 28.09.2025 / en
KUKA Deutschland GmbH Zugspitzstrasse 140, 86165 Augsburg, Germany. Tel.: +49 821 797-4000, www.kuka.com