Technical data

Maximum reach: 3076 mm
Maximum payload: 526 kg
Rated payload: 420 kg
Rated supplementary load, rotating column / link arm / arm: 0 kg / 0 kg / 50 kg
Pose repeatability (ISO 9283): ± 0.08 mm
Number of axes: 6
Mounting position: Floor
Footprint: 1050 mm x 1050 mm
Weight: approx. 2415 kg

Axis data

Motion range
A1: ±185 °
A2: -130 ° / 20 °
A3: -100 ° / 144 °
A4: ±350 °
A5: ±120 °
A6: ±350 °

Speed with rated payload
A1: 90 °/s
A2: 80 °/s
A3: 75 °/s
A4: 90 °/s
A5: 83 °/s
A6: 130 °/s

Operating conditions

Ambient temperature during operation: 10 °C to 55 °C (283 K to 328 K)

Protection rating

Protection rating (IEC 60529): IP65
Protection rating, in-line wrist (IEC 60529): IP65

Controller

Controller: KR C4

Teach pendant

Teach pendant: KUKA smartPAD

The KR 420 R3080 is designed for a rated payload of 420 kg in order to optimize the dynamic performance of the robot. With 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.

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.

KUKA Deutschland GmbH Zugspitzstrasse 140, 86165 Augsburg, Germany. Tel.: +49 821 797-4000, www.kuka-robotics.com