

# KUKA



## Robots in the foundry

All-rounders in the foundry and forging industrie.



# Our Foundry robots are all-rounders in the world of the foundry and forging industry.

**Robots need to meet a number of requirements for the new, innovative casting processes:** a surface that is resistant to heat, corrosion, alkalis and acid is essential, as are special seals on the motor and gear unit flanges. The Foundry wrists of the KUKA robots hold gripper tooling made of heat-resistant special steel and are provided with a special paint finish. This makes even higher heat resistance possible in this espe-

cially critical area. The robot wrist and in-line wrist are provided with redundant safety through sealing air and high-quality Viton seals with thermal and chemical resistance.

**Wide product range.** KUKA foundry robots for payloads from 20 to 1,300 kilograms can do almost anything.

**Our portfolio of specialized foundry machines.** With over 50 years of experience, we are your competent and reliable partner in the sector of foundry technology. From casting machines to immersion cooling basins through to spotting and fast trimming presses, you can find everything you need at KUKA for a modern and efficient foundry.



You can find our range of foundry machines under [www.KUKA.com/foundry-machines](http://www.KUKA.com/foundry-machines)

## KR CYBERTECH



The Foundry robot from our proven KR CYBERTECH family.



**Reach**  
2,010 mm

**Payload**  
20 kg

KR CYBERTECH	KR 20 R1810-1 F	KR 20 R2010-1 KS-F
Controller	KR C5, KR C4	KR C5, KR C4
Number of axes	6	6
Rated payload	20 kg	20 kg
Reach	1,813 mm	2,010 mm
Pose repeatability	±0.04 mm	±0.04 mm
Weight	250 kg	242 kg
Variants	F	F
Installation position	Floor, ceiling, wall, angle	Floor (shelf)

## KR IONTEC



The KR IONTEC combines compact design with the largest working envelope in its class for optimum use of space with a small footprint. Equipped with a waterproof and dustproof in-line wrist and protected motors, the robot is suitable for almost every area of application. A Foundry option also enables use in extremely hot environments with an expanded temperature range from 0 to 55°C.



**Reach**  
2,101 – 2,501 mm

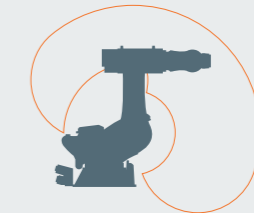
**Payload**  
50 – 70 kg

KR IONTEC	KR 70 R2100 F	KR 50 R2500 F
Controller	KR C5, KR C4	KR C5, KR C4
Number of axes	6	6
Rated payload	70 kg	50 kg
Reach	2,101 mm	2,501 mm
Pose repeatability	±0.05 mm	±0.05 mm
Weight	536 kg	559 kg
Variants	F	F
Installation position	Floor, ceiling, wall, angle	Floor, ceiling, wall, angle

## KR 1000 titan



The KR 1000 titan F series – with a payload of up to 1300 kg and a long reach – enables the precise handling of XL workpieces such as large engine blocks.



**Reach**  
3,202 – 3,601 mm

**Payload**  
750 – 130 kg

KR 1000 titan	KR 1000 titan F	KR 1000 L750 titan F	KR 1000 L950 titan PA-F	KR 1000 1300 titan PA-F
Controller	KR C5, KR C4	KR C5, KR C4	KR C4	KR C4
Number of axes	6	6	4	4
Payload	1,000 kg	750 kg	950 kg	1,300 kg
Reach	3,202 mm	3,601 mm	3,601 mm	3,202 mm
Pose repeatability	±0.10 mm	±0.10 mm	±0.10 mm	±0.10 mm
Weight	4,690 kg	4,740 kg	4,740 kg	4,690 kg
Variants	F	F	F	F
Installation position	Floor	Floor	Floor	Floor

F Foundry variant



# KR FORTEC



KR FORTEC is the perfect choice for handling heavy parts. With an unparalleled range of models for payloads up to 600 kilograms.



KR 360 FORTEC	KR 360 R2830 F	KR 280 R3080 F	KR 240 R3330 F
Controller	KR C5, KR C4	KR C5, KR C4	KR C5, KR C4
Number of axes	6	6	6
Rated payload	360 kg	280 kg	240 kg
Reach	2,826 mm	3,076 mm	3,326 mm
Pose repeatability	±0.08 mm	±0.08 mm	±0.08 mm
Weight	2,385 kg	2,415 kg	2,421 kg
Variants	F	F	F
Installation position	Floor, ceiling	Floor	Floor



KR 500 FORTEC	KR 500 R2830 F	KR 420 R3080 F	KR 340 R 3330 F
Controller	KR C5, KR C4	KR C5, KR C4	KR C5, KR C4
Number of axes	6	6	6
Rated payload	500 kg	420 kg	340 kg
Reach	2,826 mm	3,076 mm	3,326 mm
Pose repeatability	±0.08 mm	±0.08 mm	±0.08 mm
Weight	2,385 kg	2,415 kg	2,421 kg
Variants	F	F	F
Installation position	Floor, ceiling	Floor	Floor



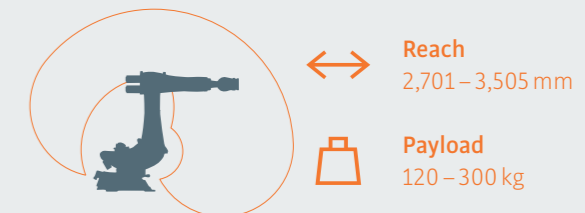
KR 600 FORTEC	KR 600 R2830 F	KR 510 R3080 F	KR 420 R3330 F
Controller	KR C5, KR C4	KR C5, KR C4	KR C5, KR C4
Number of axes	6	6	6
Rated payload	600 kg	510 kg	420 kg
Reach	2,826 mm	3,076 mm	3,326 mm
Pose repeatability	±0.08 mm	±0.08 mm	±0.08 mm
Weight	2,650 kg	2,680 kg	2,686 kg
Variants	F	F	F
Installation position	Floor	Floor	Floor

KR 500 FORTEC MT	KR 500 R2830 MT F	KR 480 R3330 MT F
Controller	KR C5, KR C4	KR C5, KR C4
Number of axes	6	6
Rated payload	500 kg	480 kg
Reach	2,826 mm	3,326 mm
Pose repeatability	±0.08 mm	±0.08 mm
Weight	2,440 kg	2,475 kg
Variants	F	F
Installation position	Floor	Floor

# KR QUANTEC



KUKA has completely revised the standard version of its bestselling robot, ensuring that it remains state-of-the-art technology. KUKA is now presenting the second generation of the special version for the foundry, forging and machining industries – more digitalized and even better than before.



KR QUANTEC	KR 300 R2700-2 F	KR 250 R2700-2 F	KR 240 R2900-2 F	KR 210 R3100-2 F	KR 180 R2900-2 F
Controller	KR C5	KR C5	KR C5	KR C5	KR C5
Number of axes	6	6	6	6	6
Rated payload	300 kg	250 kg	240 kg	210 kg	180 kg
Reach	2,701 mm	2,701 mm	2,900 mm	3,100 mm	2,900 mm
Pose repeatability	±0.05 mm	±0.05 mm	±0.05 mm	±0.05 mm	±0.05 mm
Weight	1,101 kg	1,101 kg	1,120 kg	1,134 kg	1,105 kg
Variants	F	F	F	F	F
Installation position	Floor	Floor	Floor	Floor	Floor

KR QUANTEC	KR 210 R2700-2 F	KR 150 R3100-2 F	KR 150 R2700-2 F	KR 120 R3100-2 F
Controller	KR C5	KR C5	KR C5	KR C5
Number of axes	6	6	6	6
Rated payload	210 kg	150 kg	150 kg	120 kg
Reach	2,701 mm	3,100 mm	2,701 mm	3,100 mm
Pose repeatability	±0.05 mm	±0.05 mm	±0.05 mm	±0.05 mm
Weight	1,077 kg	1,105 kg	1,072 kg	1,105 kg
Variants	F	F	F	F
Installation position	Floor	Floor	Floor	Floor

KR QUANTEC	KR 120 R2700-2 F	KR 270 R3100-2 K-F	KR 210 R3300-2 K-F	KR 180 R3500-2 K-F
Controller	KR C5	KR C5	KR C5	KR C5
Number of axes	6	6	6	6
Rated payload	120 kg	270 kg	210 kg	180 kg
Reach	2,701 mm	3,105 mm	3,305 mm	3,505 mm
Pose repeatability	±0.05 mm	±0.05 mm	±0.05 mm	±0.05 mm
Weight	1,069 kg	1,260 kg	1,266 kg	1,256 kg
Variants	F	F	F	F
Installation position	Floor	Floor (shelf)	Floor (shelf)	Floor (shelf)

KR QUANTEC nano	KR 180 R2100 nano F exclusive	KR 120 R2100 nano F exclusive
Controller	KR C5, KR C4	KR C5, KR C4
Number of axes	6	6
Rated payload	180 kg	120 kg
Reach	2,100 mm	2,100 mm
Pose repeatability	±0.05 mm	±0.06 mm
Weight	approx. 998 kg	963 kg
Variants	F	F
Installation position	Floor	Floor

F Foundry variant



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