

KR 120 R1800 nano



Dati tecnici

Massimo raggio d'azione	1803 mm
Carico nominale	120 kg
Carico addizionale nominale giostra/culla/braccio	0 kg / 0 kg / 50 kg
Carico totale nominale	170 kg
Ripetibilità di posizionamento (ISO 9283)	± 0,06 mm
Numero assi	6
Posizione di montaggio	Pavimento
Superficie di appoggio	901 mm x 610 mm
Peso	ca. 684 kg

Dati degli assi

Campo di movimentazione	
A1	±180 °
A2	-145 ° / 45 °
A3	-130 ° / 150 °
A4	±350 °
A5	±125 °
A6	±350 °
Velocità con carico utile nominale	
A1	123 °/s
A2	114 °/s
A3	86 °/s
A4	292 °/s
A5	258 °/s
A6	284 °/s

Condizioni d'esercizio

Temperatura ambiente per il funzionamento da 10 °C a 55 °C (da 283 K a 328 K)

Classe di protezione

Classe di protezione (IEC 60529)	IP65
Classe di protezione del polso centrale (IEC 60529)	IP65

Sistema di controllo

Sistema di controllo

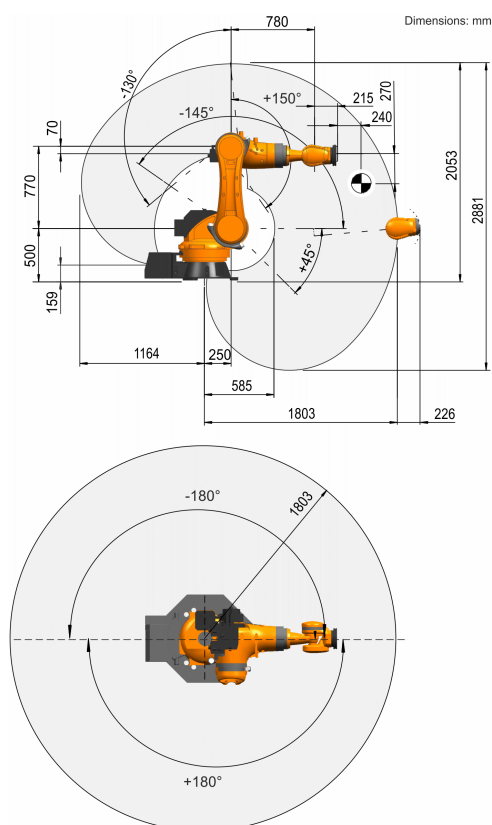
KR C4

Dispositivo di comando portatile

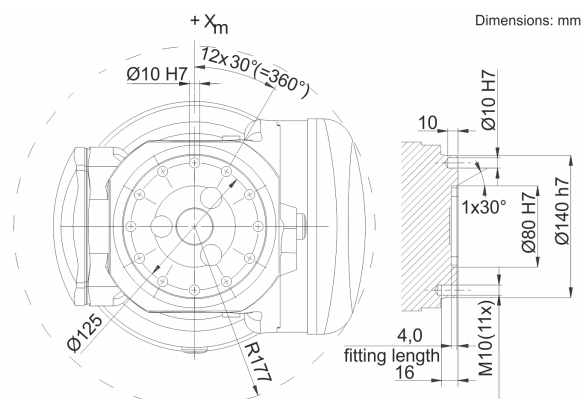
Dispositivo di comando portatile

KUKA smartPAD

Grafica dello spazio di lavoro



Flangia d'attacco



KR 120 R1800 nano C



Technical data

Maximum reach	1803 mm
Rated payload	120 kg
Rated supplementary load, rotating column / link arm / arm	0 kg / 0 kg / 50 kg
Rated total load	170 kg
Pose repeatability (ISO 9283)	± 0.06 mm
Number of axes	6
Mounting position	Ceiling
Footprint	901 mm x 610 mm
Weight	approx. 684 kg

Axis data

Motion range	
A1	±180 °
A2	-145 ° / 45 °
A3	-130 ° / 150 °
A4	±350 °
A5	±125 °
A6	±350 °
Speed with rated payload	
A1	123 °/s
A2	114 °/s
A3	86 °/s
A4	292 °/s
A5	258 °/s
A6	284 °/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

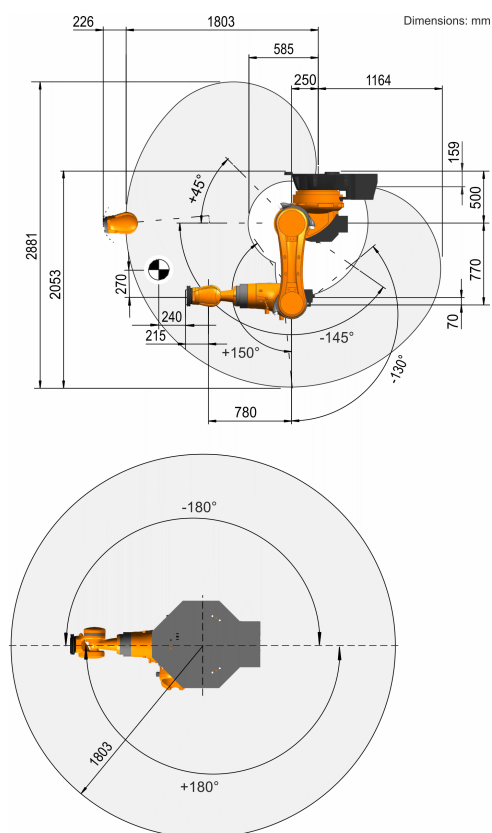
Controller

Controller	KR C4
------------	-------

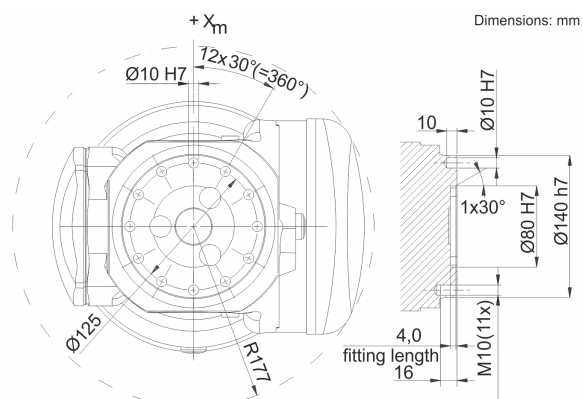
Teach pendant

Teach pendant	KUKA smartPAD
---------------	---------------

Workspace graphic



Mounting flange



KUKA



Robust. Compact.

Extremely resistant.

KR QUANTEC nano F exclusive.

KR QUANTEC nano F exclusive – optimized for use in washing cells

THE ROBUST WASHING PROFESSIONAL:

This compact foundry specialist has all of the characteristics of the KR QUANTEC F series and is also specially optimized for the extreme conditions in cleaning systems and medium- or large-sized washing cells. For making parts cleaning operations cost-effective, reproducible and environmentally friendly. The robot meets the requirements of protection rating IP 69, while its in-line wrist meets those of IP 67 and IP 69. The KR QUANTEC nano F exclusive thus sets new standards for comprehensive automation solutions in the foundry and engine production sectors.

EQUIPPED WITH MANY EXCLUSIVE FEATURES:

The KR QUANTEC nano F exclusive boasts a complete encapsulation of the mechanical system and pressurization of the interior of the robot, specially coated gear units, double Viton seals throughout the entire robot arm and a fully internally routed cable set. The protective coating is resistant to alkalis, acids, heat and corrosion – and, of course, there is the option of an external energy supply system. As a result of the high IP 69 protection rating, this robot is ideally suited for wet chemical cleaning as well as immersion and high-pressure cleaning processes – even when using aggressive cleaning agents and disinfectants.



KR 120 R2100 nano F exclusive



Max. reach	2,100 mm
Rated payload	120 kg
Rated suppl. load on arm / link arm / rot. column	30 kg/-/-
Maximum payload	150 kg
Pose repeatability	±0.06 mm
Number of axes	6
Mounting position	Floor
Variant	
Robot footprint	615 x 860 mm
Weight (excluding controller), approx.	963 kg
Remote RDC	YES

Axis data / Range of motion	Speed
Axis 1 (A1) +/-165°	136°/s
Axis 2 (A2) +45°/-135°	95°/s
Axis 3 (A3) +155°/-65°	120°/s
Axis 4 (A4) +/-350°	292°/s
Axis 5 (A5) +/-125°	258°/s
Axis 6 (A6) +/-350°	284°/s



Controller

KR C4, VKR C4

Operating conditions

Ambient temperature +10 °C to +55 °C



Teach pendant

KUKA smartPAD

Protection rating

Protection rating, robot IP 69

Protection rating, in-line wrist IP 67, IP 69

 Foundry

KUKA Roboter GmbH

Zugspitzstraße 140, 86165 Augsburg, Germany, Phone: +49 821 797-4000, www.kuka-robotics.com

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

KR 180 R2100 nano F exclusive



Dati tecnici

Massimo raggio d'azione	2100 mm
Carico nominale	180 kg
Carico aggiuntivo nominale giostra/culla/braccio	0 kg / 0 kg / 30 kg
Carico totale nominale	210 kg
Ripetibilità di posizionamento (ISO 9283)	± 0,05 mm
Numero assi	6
Posizione di montaggio	Pavimento
Superficie di appoggio	850 mm x 615 mm
Peso	ca. 998 kg

Dati degli assi

Campo di movimentazione	
A1	±165 °
A2	-135 ° / 45 °
A3	-65 ° / 155 °
A4	±350 °
A5	±125 °
A6	±350 °
Velocità con carico utile nominale	
A1	136 °/s
A2	95 °/s
A3	120 °/s
A4	179 °/s
A5	172 °/s
A6	219 °/s

Condizioni d'esercizio

Temperatura ambiente per il funzionamento da 10 °C a 55 °C (da 283 K a 328 K)

Classe di protezione

Classe di protezione (IEC 60529)	IP65 / IP67 / IP69
Classe di protezione polso del robot (IEC 60529)	IP65 / IP67 / IP69

Sistema di controllo

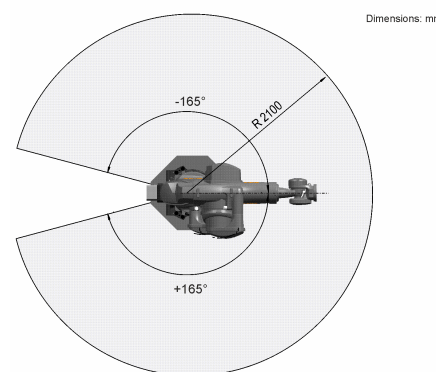
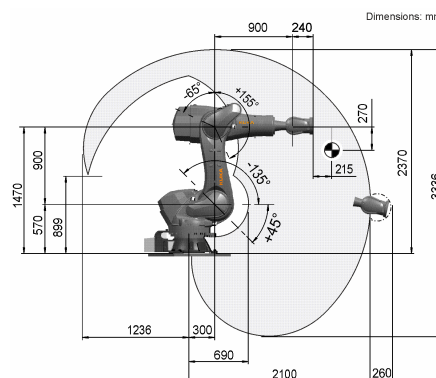
Sistema di controllo	KR C4
----------------------	-------

Dispositivo di comando portatile

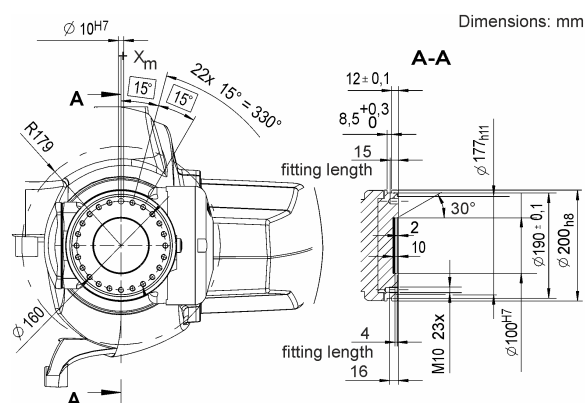
Dispositivo di comando portatile

KUKA smartPAD

Grafica dello spazio di lavoro



Flangia d'attacco



KR 160 R1570 nano C



Technical data

Maximum reach	1573 mm
Rated payload	160 kg
Rated supplementary load, rotating column / link arm / arm	0 kg / 0 kg / 50 kg
Rated total load	210 kg
Pose repeatability (ISO 9283)	± 0.06 mm
Number of axes	6
Mounting position	Ceiling
Footprint	901 mm x 610 mm
Weight	approx. 677 kg

Axis data

Motion range	
A1	±180 °
A2	-145 ° / 45 °
A3	-130 ° / 145 °
A4	±350 °
A5	±120 °
A6	±350 °
Speed with rated payload	
A1	123 °/s
A2	114 °/s
A3	86 °/s
A4	179 °/s
A5	172 °/s
A6	220 °/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

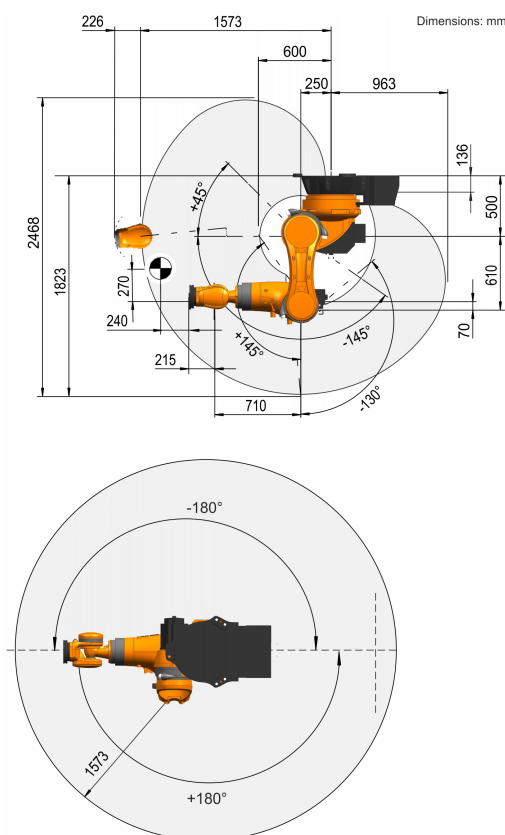
Controller

Controller	KR C4
------------	-------

Teach pendant

Teach pendant	KUKA smartPAD
---------------	---------------

Workspace graphic



Mounting flange

