

# AIRSKIN® for KUKA Iontec

AIRSKIN turns a KUKA Iontec into a **large fenceless robot** - the **fastest collaborative solution** on the market.

Combining our soft pressure sensitive safety skin with a high performance industrial robot gives you the best of both worlds

- **high payload/reach with proven robustness/precision**
- **plus collaborative operation**

opening up limitless possibilities for fenceless automation.



## AIRSKIN is available for the whole line of KUKA Iontec

Payload from 30-70 kg  
Reach 2501 mm  
Supports KR C4 and KR C5 Robot Controller

## EoAT-Safety with AIRSKIN

With 10 years of experience in fenceless and collaborative applications in the industry, AIRSKIN offers fitting solutions for all End of Arm Tools (EoAT).

### AIRSKIN Modules

Modular Pads fit together for one flexible solution on grippers and work objects

### Customized AIRSKIN

Any 3D form possible in lot-size 1

### Speed

Who said a large collaborative robot would have to be slow?

The soft highly sensitive AIRSKIN allows fenceless operation at **up to 2 m/s** in free space.

### Space

With AIRSKIN a large robot does not need a large fence around it. **Save valuable floor space** to get more productivity out of your facility.

### Flexibility

Without fences cluttering your floor space, **quickly reroute material flow** and/or repurpose your robots as demands on your production keep changing.

### Safety

Proven AIRSKIN technology meeting highest safety standards **[ISO 13849-1 PLe/ Cat3, IEC 62061 SIL 3]**

# AIRSKIN® for KUKA Iontec

## General

Reaction time	< 9 ms
Actuation force	-5 N
Lifetime	10 years / 1 000 000 activations
Mounting system	screw-on support structure with magnetic snap-on AIRSKIN pads
Visual feedback	status LEDs

## Robot payload with AIRSKIN

PA (palletizing) mode includes a Safetyflange.

Payload in kg	Without AIRSKIN		With AIRSKIN	
				PA mode
KR 30 R2100	30	28	29	
KR 50 R2100	50	46	48	
KR 70 R2100	70	64	67	
KR 50 R2500	50	44	47	

## Robot motion range with AIRSKIN

PA (palletizing) mode includes a Safetyflange.

Range in °	Nominal		with AIRSKIN	
A1	-185	185	-185	185
A2	-175	65	-175	23
A3	-120	165	120	150
A4	-180	180	-180	180
A5	-125	125	-95	95
A6	-350	350	-350	350

## Operating conditions

Ambient temperature during operation	5-50 °C
Humidity level	0-85 %
IP rating	IP54
Chemical resistance	Common cleaning agents, oil, alcohol, sanitizer
UV resistance	100 %
Tolerable g-force	15 g

## Electrical connection

Supply voltage	24 V DC
Current consumption	typ. 420 mA, max. 1500 mA
Electrical interface	OSSD (6 Wires: 2 Safety Channels IN/OUT, 24 V, Ground)
AIRSKIN topology	4 lanes with up to 15 AIRSKIN pads, each connected to AIRSKIN Connection Box (ACB)
Connection to robot	4 ACBs to safety PLC or X13 connector

## Certificates

ISO 13849-1	PLe / Cat 3
EN/IEC 62061	SIL CL 3
UL 1740:2018	
ANSI/RIA R15.06-2012	
CAN/CSA-Z434-14 + G11	
Flammability	UL 94 V-2
EC type examination Nr.	TÜV-A-MHF/MG17-00411
TUV Rheinland certificate Nr.	CU 72192170 0001

## Packaging

Weight of product	20 kg
Weight including packaging	ca. 50 kg
Packaged size	1200×800×600 mm

Details provided about the properties and usability of the products are purely for information purposes and do not constitute a guarantee of these characteristics. No liability accepted for errors or omissions. V1 / 11.12.2024 / en

Blue Danube Robotics GmbH, Niedermoserstrasse 14, 1220 Vienna, Austria +43 1 890 86 97 900  
sales@airskin.io, www.airskin.io