

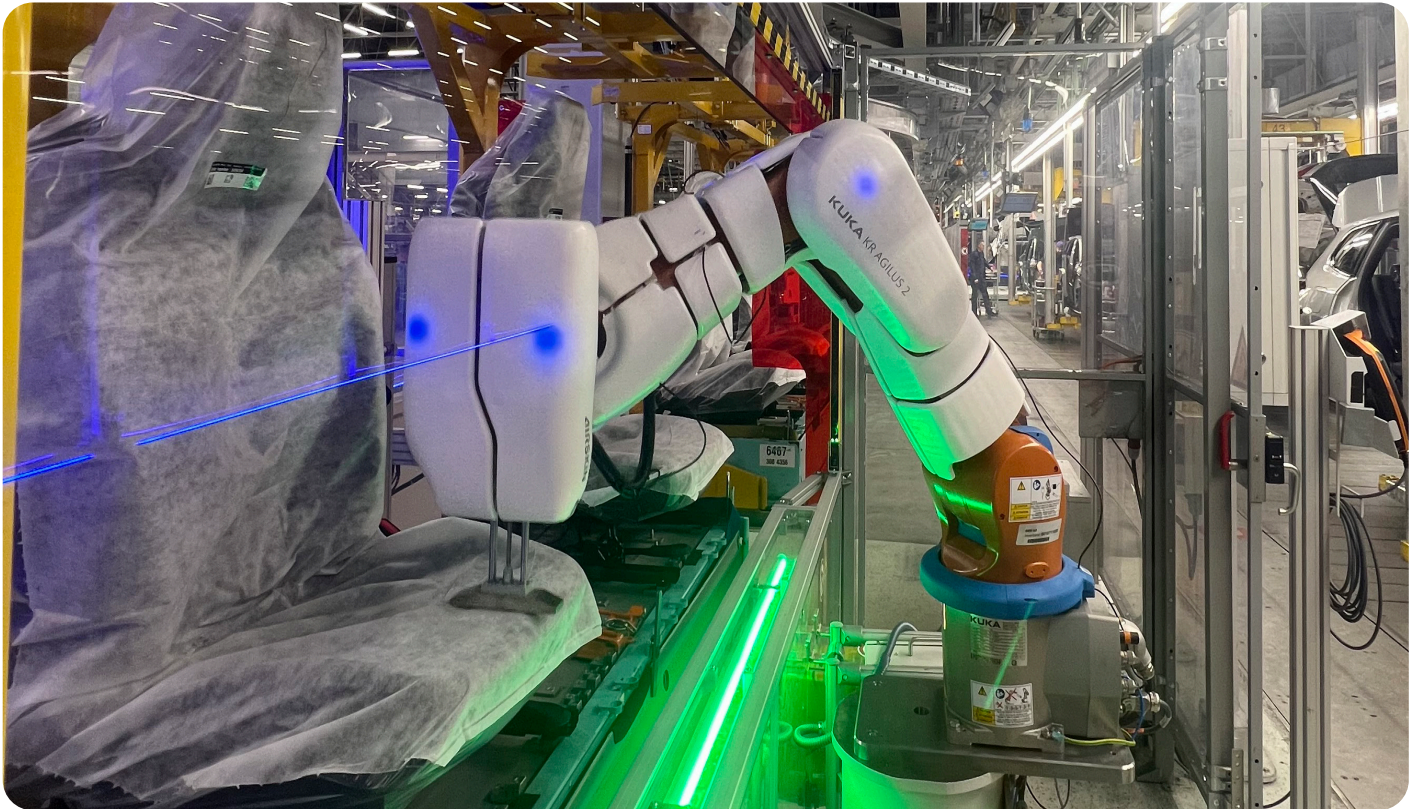
# AIRSKIN® for KUKA Agilus Series

AIRSKIN turns a KUKA Agilus into the industrial collaborative 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 reach with proven robustness/precision](#)
- [plus collaborative operation](#)

opening up limitless possibilities for fenceless automation.



## AIRSKIN is available for the whole line of KUKA Agilus Robots

Payload from 6–10 kg  
Reach from 900–1100 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 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 an industrial 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  
[\(ISO 13849-1 PL e/ Cat3, IEC 62061 SIL 3\)](#)

# AIRSKIN® for KUKA Agilus Series

## 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	RGB status LEDs

## 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

## Robot payload with AIRSKIN

PA - Robot with activated palletizing mode (KUKA software option). When using an AIRSKIN Safetyflange, the expansion of the robot flange by the height of the AIRSKIN Safetyflange must also be taken into account.  
Height of the AIRSKIN Safetyflange 10: 83.6 mm  
Height of the AIRSKIN Safetyflange 20: 137.45 mm

Payload in kg	Without AIRSKIN	With AIRSKIN	PA mode
KR 6 R900-2	6.7	5	5.4
KR 10 R900-2	11.3	8.8	10.2
KR 10 R1100-2	11.1	9.4	9.6

## 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	1 lane with up to 15 AIRSKIN pads, connected to AIRSKIN Connection Box (ACB)
Connection to robot	ACB to safety PLC or X11 connector

## Robot motion range with AIRSKIN

PA (palletizing) mode includes a Palletizing Safetyflange.  
All models, in °

	Nominal		with AIRSKIN	
A1	-170	170	-170	170
A2	-190	45	-163	25
A3	-120	156	-93	131
A4	-185	185	-185*	185*
A5	-120	120	-117	110
PA mode			-100	100
A6	-350	350	-350*	350*

\* Limitation by cable length

## Certificates

ISO 13849-1	PL <sub>e</sub> / Cat 3
EN/IEC 62061	SIL CL 3
UL 1740:2018	
ANSI/RIA R15.06-2012	
CAN/CSA-Z434-14 + GI1	
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	7 kg
Weight including packaging	11.5 kg
Packaged size	800×600×600 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.  
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