

FENCELESS ROBOTICS WITH AIRSKIN®

AIRSKIN® turns any industrial robot into a fenceless robot, combining the advantages of an industrial robot and its eco-system with the advantages of fenceless collaborative applications.

AIRSKIN® add-on safety skin is safety certified by TÜV Austria and TÜV Rheinland, ISO 13849 Cat. 3 / PLe, CSA/UL



REMOVE THE FENCE SAVE FLOOR SPACE



HIGHEST SAFETY



AND MAINTENANCE



AVAILABLE FOR



AIRSKIN® at MAGNA production plant

with collaborative robots.

ABB robot and custom gripper with AIRSKIN® modules

industrial robot. Increase speed and protect tools

AIRSKIN® is a soft and pressure-sensitive safety skin

in case of a collision. AIRSKIN® allows you to rethink

robot safety in new and unconventional ways beyond

for industrial robotics. It directly covers the entire robot as well as the tool, and safely stops the machine

limiting power and reach or restricting access.

Build truly collaborative applications with any

INCREASE SPEED FOR

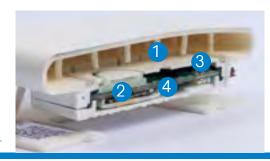


FAST AND EASY

HOW DOFS IT WORK?

Soft, airtight sensor pads continuously monitor and reliably detect internal pressure changes due to deformations of the hull.

Any collision immediately triggers a safe stop signal to the controller and initiates the robot's braking sequence. Remaining mechanical forces due to the stopping distance of the robot are absorbed by the soft padding.



COMPONENTS

- 1 airtight hull
- 2 pump 3 - sensors
- 4 electronics



AIRSKIN on KUKA for quality inspection

AIRSKIN® for

KUKA





DENSO

STÄUBLI

UNIVERSAL ROBOTS



ROBOTIQ



EPSON





KUKA

KR10 Agilus R900-2

KR10 Agilus R1100-2

KR10 Agilus R1100 sixx

KR22/16 Cybertech R1610-2

KR20 Cybertech R1810-2

KR16 Cybertech R2010-2

KR120/210/300 Quantec R2700-2

KR120/150/210 Ouantec R3100-2

Fenceless robots incl. AIRSKIN

Fenceless KR10 Agilus R900-2 Fenceless KR10 Agilus R1100-2

Add-on's for fenceless robots

Electric Gripper - Zimmer/Schmalz

Pneumatic Gripper - SMC

ProfiSafe - SafeOperation

MITSUBISHI

RV4FRL

RV7FRLL

RV13FRL

Fenceless robots incl. AIRSKIN

Fenceless RV4FRL - incl. robot

Fenceless RV7FRLL - incl. robot

Add-on's for fenceless robots

Electric Gripper - Zimmer/Schmalz

Pneumatic Gripper - SMC

ABB

IRB 1200-7/0.7

IRB 1200-5/0.9

IRB 6620 A4-6

IRB 6620

DENSO

VS 087

VS 068 VM 60 B1

UNIVERSAL ROBOTS

UR5 / UR5e (Full, Ellbow to Wrist)

UR10 / UR10e (Full, Ellbow to Wrist)

UR16e (Full, Ellbow to Wrist)

SafetyFlange for UR

UR Enable switch

OTHER

Protective Sleeves

Extended Service Contract

JIRSKIN

AIRSKIN® SafetyFlange

AIRSKIN® Module 100x200, T40/T60

AIRSKIN® Module 200 x 200, T40/T60

AIRSKIN® Module 300x200, T40/T60

AIRSKIN® Module 400x200, T40/T60

AIRSKIN® Connection unit

EOAT

Schmalz CobotPump ECBPi+VEE 2x2

Schmalz CobotPump ECBPi+VEE 2x3

OnRobot VG10, RG2, RG6

Robotiq 2F85

Weiss GripKit E2

Weber Screwdriving System SEV-C

Cognex Insight 7600, Dataman

AIRSKIN® MODULES



The AIRSKIN® Modules are a cost-effective pressure sensitive system to quickly and easily add safety to robots, custom end effectors, mobile robots, moving machinery and other automation equipment.

The easy to install AIRSKIN® Modules come in 4 different sizes ranging from 100x200, 200x200, 300x200 to 400x200 mm including a mounting fixture. The connection to the safety inputs of the safety controller is as easy as ever.

- Direct connection to PLC, no software or configuration needed
- Multiple pads in series
- Simple and easy to install, due to magnetic fasteners
- 9ms reaction time

Applications

- · Robots and End of Arm Tooling
- Suction grippers for palletizing
 3D-Cameras
- · Large grippers
- Workpiece enclosures
- · AGVs, mobile robots and service robots
- Special purpose machinery

AIRSKIN® SAFETYFLANGE



AIRSKIN® Safetyflange is a compliant robotic collision sensor with PLe/Cat3 ISO 13849 safety certification.

The Safetyflange detects tool and workpiece collisions in multiple directions and sends a safe stop signal to the robot controller. The break-away movement in angular, axial and torsional directions absorbs energy and reduces pressure and force during collisions in collaborative applications.

- Automatically resets itself after a collision
- High repeatability
- SafetyFlange prevents damage to expensive robotic endeffectors
- Adapts to your application by changing internal springs

Applications

- Palletizing
- Visual inspection
- Pick and place
- Gluing









