



AIRSKIN® MODULE PADS

UNLIMITED POSSIBILITIES WITH AIRSKIN® MODULE PADS

The AIRSKIN® Module Pads system is the cost-effective solution to quickly and easily add safety not only to robots, but to custom end effectors, mobile robots, moving machinery and other automation equipment.

AIRSKIN® Module Pads form a set of different sizes of pressure-sensitive safety elements, from 100x200 mm to 400x200 mm. They come with a mounting fixture and are easy to install on any machinery. Connection to the safety inputs of the safety controller is as easy as ever.

AIRSKIN® Module Pads are based on the patented AIRSKIN® pressure-sensitive skin technology and come with CE and ISO 13849 PLe/Cat3 safety certification by TÜV Austria and TÜV Rheinland for US/Canada.

BENEFITS

- Easily create safe, fast collaborative applications
 - Save floor space
 - Achieve high cycle times
 - Flexible to move
 - Easy to understand
 - High acceptance by workers
- Flexible, modular add-on solution
- Affordable safety solution
- DIY safety for EoAT
- Complete AGV cover, customized for mass manufacturing
- Create safe linear axis and build cost-effective automation/robotic solutions

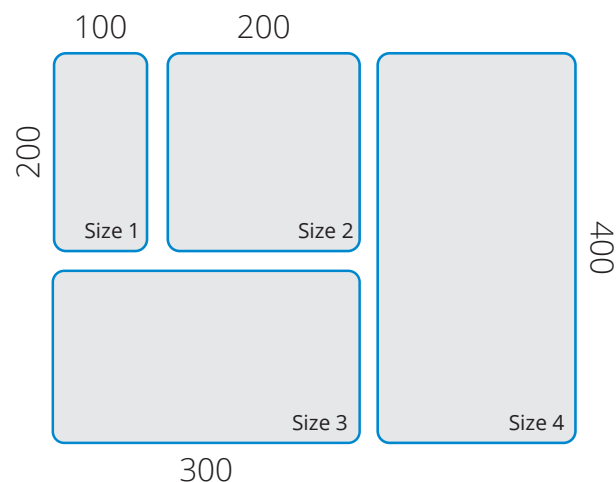
FEATURES

- SAFE** PLe/Cat3 ISO 13849-1 certified
- EASY** Direct connection to PLC, no software, no configuration needed
- FLEXIBLE** Multiple pads in series
- SIMPLE** Simple and easy to install, due to magnetic fasteners
- FAST** 9ms reaction time

APPLICATION AREAS

- End of Arm Tooling
 - Suction grippers for palletizing
 - 3D cameras
 - Large grippers
 - Workpiece enclosures
- AGVs, mobile robots and service robots
- Special purpose machinery
- Ergonomic safety UI

SIZES



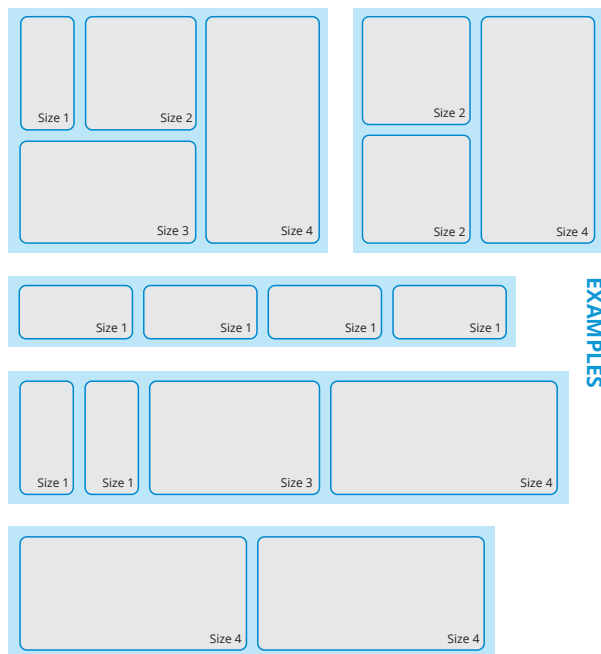


AIRSKIN® Module Pads allow you to diversify your safety solution for grippers.

BUILD YOUR OWN CUSTOMIZED AIRSKIN® SYSTEM WITH MODULE PADS

- Almost unlimited uses
- Possible to combine the pads in numerous ways
- Robust and dirt-resistant material guarantees reliable performance in industrial settings

Mix any size to any AIRSKIN® configuration



AIRSKIN® Module Pads are the perfect fit, even for your linear axis equipment



FUNCTIONAL PRINCIPLE

AIRSKIN® is a soft and pressure-sensitive safety skin for industrial robotics. It directly covers the entire robot as well as the tool, and safely stops the machine in case of a collision. AIRSKIN® allows you to rethink robot safety in new and unconventional ways beyond limiting power and reach or restricting access.

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.

The autonomous pads are connected to the controller's safety IOs by a 6-wire cable carrying two redundant safety channels. Functional safety is ensured by constant self-diagnosis of the sensor pads. **AIRSKIN® fully complies with ISO 13849. It is certified as a PLE Cat.3 safety device by TÜV Austria.**

How to mount an AIRSKIN® Module Pad on aluminium profiles

