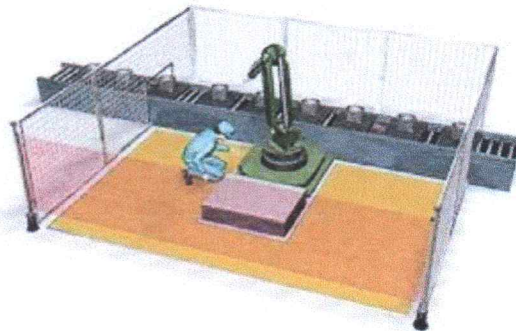
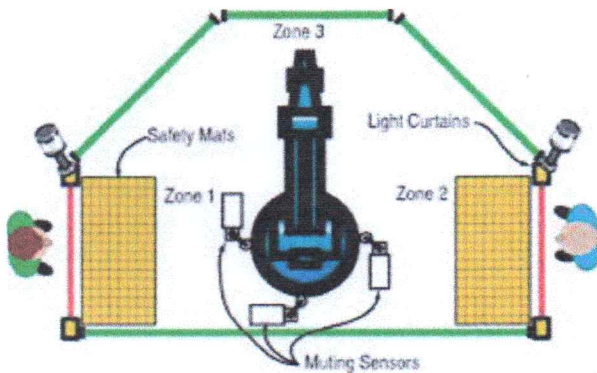
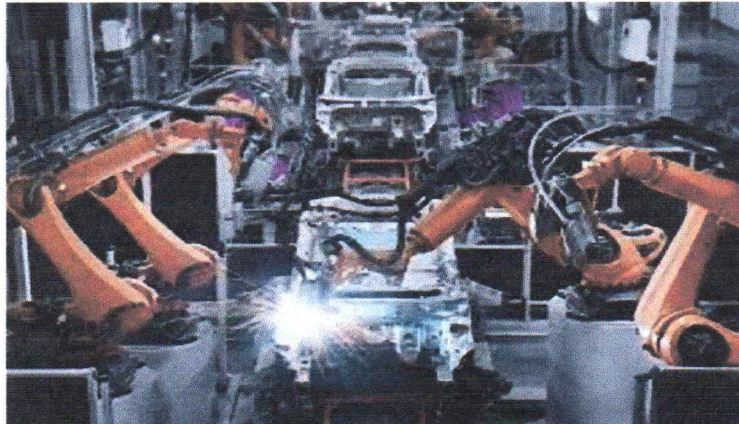


MARSHAL

ENGLAND



INTELLIGENT PRESSURE SENSITIVE SAFETY MATS



Safety mats are used to protect hazardous areas at machines and other equipment.

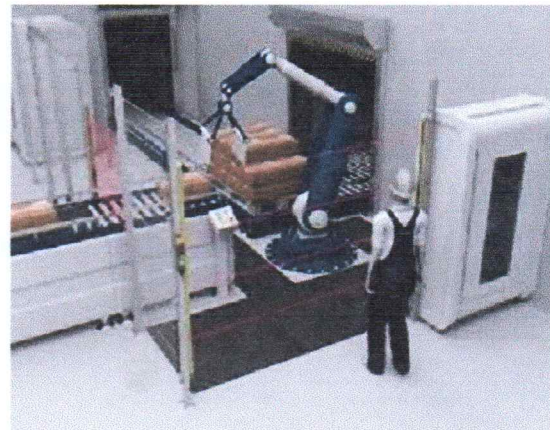
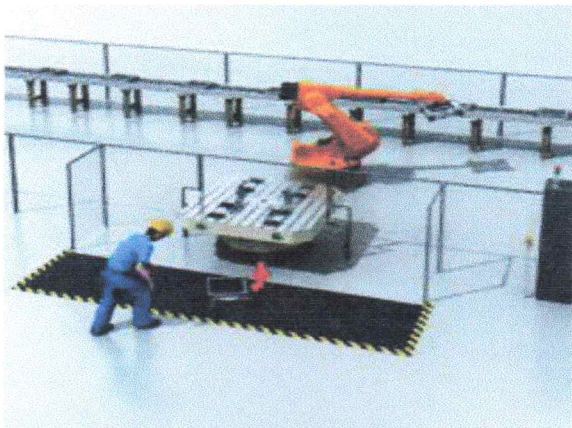
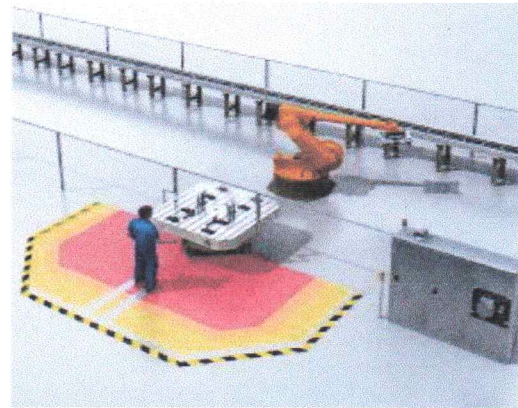
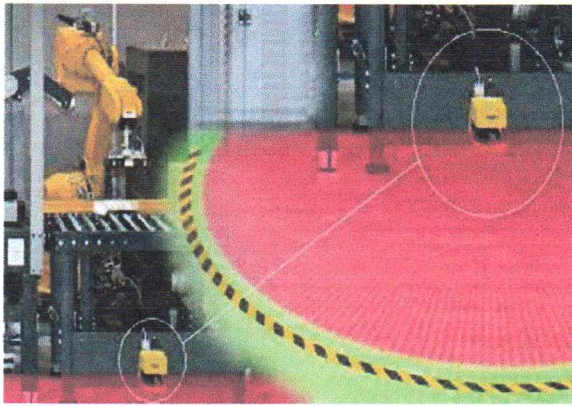
When a person steps on the safety mat it will immediately switch off the power source. As long as the person stays on the mat, the machine cannot be restarted.

Our safety mats are manufactured with mechanical, positive-opening contacts therefore an additional safety control unit is not needed.

The contact mat is placed between polyurethane mats protecting it against environmental influences. The cover material has a slip-resistant structure and is manufactured in the size specified by the customer. Larger areas are achieved by placing several mats side by side. Around the final mat surface an aluminium border trim is installed and fixed onto the ground by screws.

The benefits of our safety mats are:

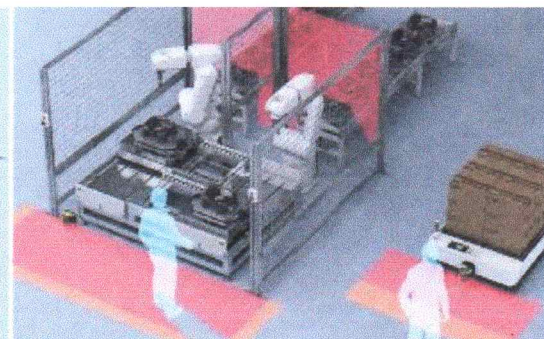
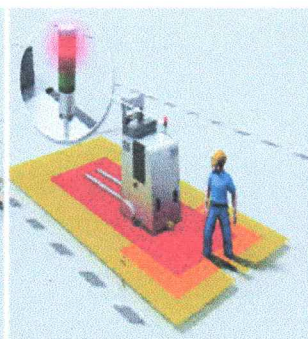
- No additional control unit required
- Wired directly to existing E-stop relay unit
- Suitable for harsh environments
- Different surface materials depending on application
- Dimensions to customers' specification
- Ready-to-use safety mats including machined ramp trim
- BG approved



Safety mats (also "shut-off mats") are safety devices around CNC-machining centers, which are intended to prevent the operator to enter particular areas. Shut-off mats are pressure sensitive and turn the machine off (emergency stop) as soon as a person or object is on them. For working with multiple processing tables, the mats can be divided into different zones. Usually, there is a left and a right zone, which is either turned on or off depending on the active work field, as well as a security zone in the middle, which is active at all time.

Advantages

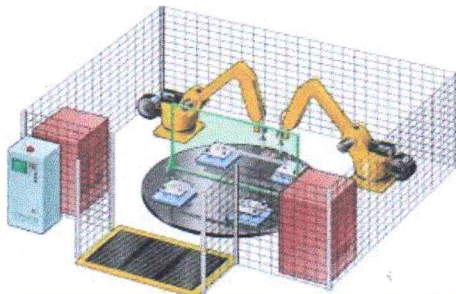
- ▶ Simple and easy installation
- ▶ No alignment necessary
- ▶ No obstruction to the sides, as with light barriers





TECHNICAL PARAMETERS (SAFETY MAT)

Number of contacts (normally open)		1
Number of contacts (normally closed)		0
Sizes		Customised
Detection Mode		Pressure Transducer
Triggering Force		< 10 kgs/cm ²
Mximum Allowable Load		2000 N/cm ²
Mechanical Life		> 3,000,000 time
Material od Protection Layer		NBR
Induction Time		10 ms
Ambient Temperature		-20°C to 65°C
Protection Level		IP 65
Maximum Humidity		95% RH
SAFETY CLASSIFICATION	EN 1760-1 : Reset Command	Acception
	ISO 13849-1:2006	Classification 3
	MTTF _d	> 20 years
	B _{10d}	6*10 ⁶
	N _{op} (Acceptance)	52500 / Year
	IEC 61508:PFH _s	9.99*10 ⁻⁶ 1/h (SIL3)
	Operating Voltage	30 V



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