



**COMPLETE SYSTEMS**

# **MACHINE PROTECTION**

**Modular – Self-supporting – Functional**

# MACHINE PROTECTION

## STIWA MECHATRONIC SYSTEMS – YOUR PARTNER FOR OPTIMIZED PRODUCTION

As a leading manufacturer of automation technology, we have been providing products, projects and services for many years, thereby providing optimized technology integrations with the best possible overall effect. Through the targeted interaction of mechanics, software and electronics, we achieve production solutions that

guarantee the greatest possible flexibility, standardization, and safety. Our approach is all about “cooperative growth”, meaning we are there every step of the way along our client’s value added chain. No matter whether you need supply, handling, transportation or complete systems, STIWA is your partner for mechatronic special solutions!

## MACHINE PROTECTION

STIWA combines 50 years experience in machine and system manufacturing with comprehensive expertise from our own production. We have developed a modular and integrative protection system

that combines safety, functionality and design, as well as guaranteeing the best in operating ergonomics. The freely configurable modular design system ensures maximum flexibility and accessibility.

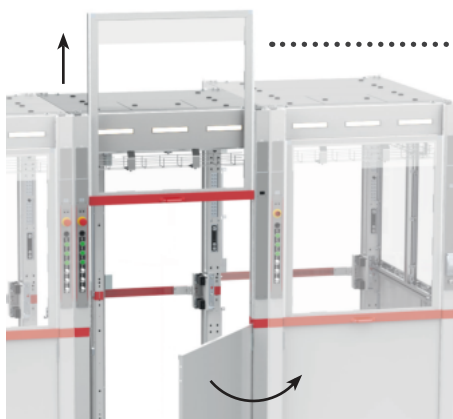
## MECHANICAL STRUCTURE

### Basic variations in the STIWA system grid 360 mm

- » Standardized length and width variants
- » Interfaces for customer-specific adjustments

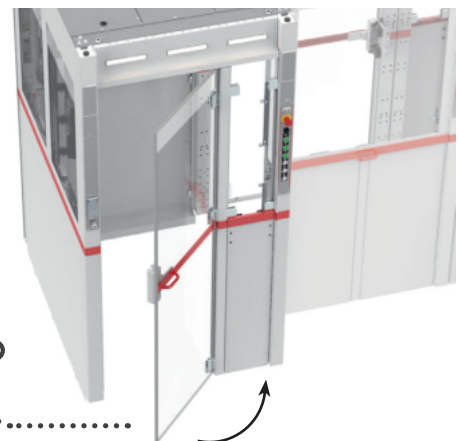
### Basic structure in hybrid design

- » Mixture of supporting steel components and aluminium profiles
- » Access options: Door hinges on the left/right or upward sliding door (protective sliding door with weight-compensating spring)
- » Door options made from LSG safety glass (8 mm) or metal (powder-coated)



**Dual access option**  
Sliding and swinging door

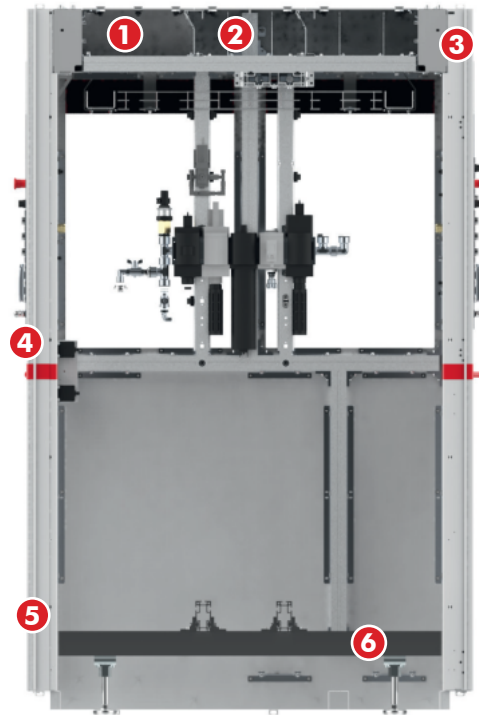
**Single access option**  
Swinging door



## BENEFITS

### Integrated functionalities:

- » Visualization concept by means of LED indicator lights – Up to seven different configurable colors to choose from
- » LED machine lighting
- » Operating and service elements (230 V AC, LAN, EBP Earth Bonding Point)
- » Pneumatic compressed air management system (air treatment)
- » Central energy supply management integrated in protective cover
- » Crane lifting lugs – relocation transportability
- » Auxiliary elements (transport rollers, assembly aids, climbing elements, anti-fall guards)

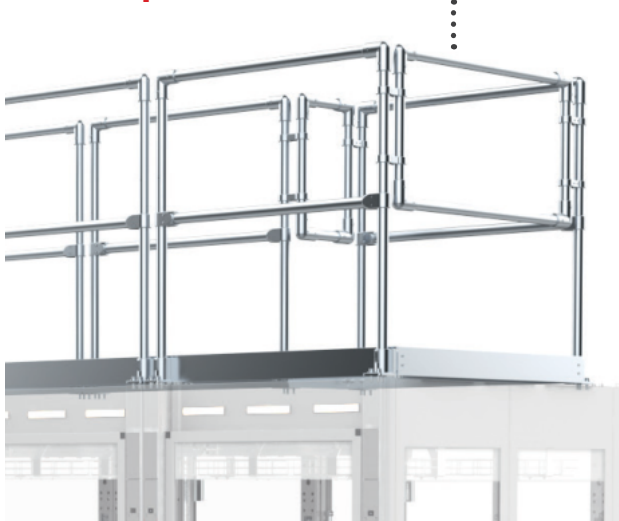


- |   |   |
|---|---|
| 1. Decentralized electronic control panel for each module | 4. Protection support panel                     |
| 2. System roof  | 5. Interface access options                     |
| 3. Interface system roof                                  | 6. Basic structure made from aluminium profiles |

## FUNCTIONS

- » Self-supporting
- » Modularly expandable
- » Access widths of 3, 4, or 5 x 360 mm
- » A variety of access designs: VSG glass or metal
- » Accessible and useable system roof (e.g. for the provision of raw materials, extraction)

### Fall protection



## AIMS AND IMPACT

### Quality

- » Robust construction, durable coatings

### Flexibility

- » Modular design and rapid relocation ability

### Safety

- » Tailored safety concept with high functionality

### Ergonomics

- » Protection and improved work environment (noise reduction, accessibility, compliant with access and operating height norms)

## OPTIONAL ACCESSORIES

- » Customizable access widths of 2.5, 3.5, or 4.5 x 360 mm
- » Laser protection
- » ESD-compliant
- » Ergonomic swivel arm for operating elements (e.g. monitors)
- » Anti-fall protection via protective roof railings (servicing)
- » Integrated control panels

## TECHNICAL DATA

	MACHINE PROTECTION
<b>Modular size</b>	360 mm
<b>Adjustable heights for floor leveling</b>	80 mm (from floor level to lower edge of the cover) +/- 20 mm
<b>Protection length</b>	from 720 mm
<b>Protection width</b>	from 1080 mm
<b>Layout options</b>	Linear, t-shaped, staggered at 180-mm intervals
<b>Access options</b>	Downwards swinging door (left/right) Upwards sliding door Glass swinging door (left/right) Fixed covering
<b>Color options</b>	On request
<b>Safety switch</b>	Prepared for Performance Level (PL) e
<b>Energy and Cable Management</b>	Cabling for 230 V AC and 24 V DC Lighting Field bus system

## COMPLETELY INTEGRATED – by this we understand:

- » Flexible solutions – tailored to your needs
- » Mastering the IIoT (Industrial Internet of Things): Optimized technology and system integrations due to many years of experience in the production and networking of automation systems.
- » Safe processes with the best possible overall effect and lowest total costs
- » Adaptive, subsequent production: Based on the pre-production processes and according to the situational requirements
- » Comprehensive standardization – high scalability



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