

TAKTOCUBE
Machine cell
Assembly instructions

Version 1.0
2022-07-29

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1 About these instructions

1.1 Contact information

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1.2 Product designation

Product designation: TAKTOCUBE

Product type: Machine cell

2 Safety

2.1 Safety instructions

General safety instructions

- Read through these instructions completely
- Observe the information and instructions in these instructions
- Keep unauthorized persons away from the working area
- Work on electrical systems may only be carried out by qualified electricians
- Keep the instructions in a safe place and make them available to all employees
- Observe the documentation of the supplier components

2.2 Warnings

2.2.1 Structure of the warnings

All the warnings in these instructions have the following structure:

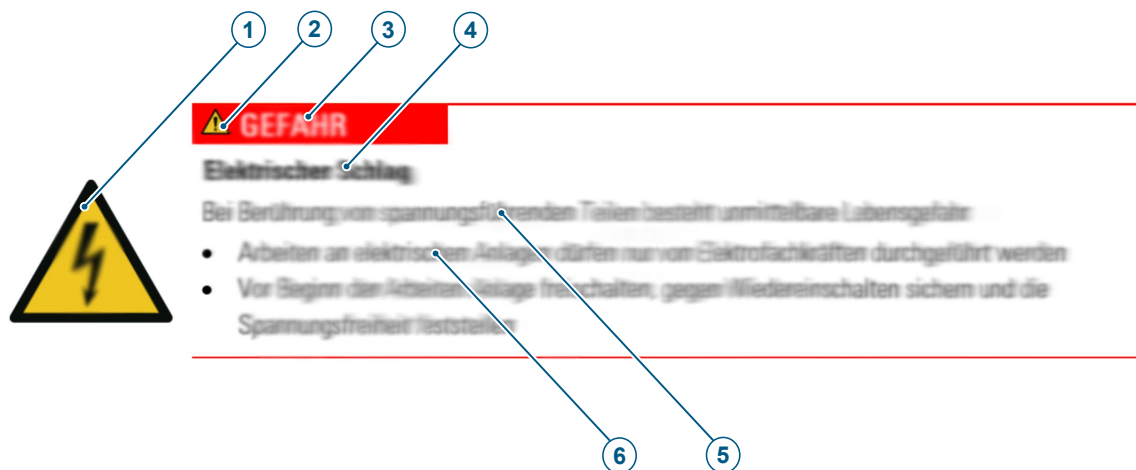


Fig. 1: Structure of the warnings






1	Hazard-specific symbol	2	Hazard symbol
3	Signal word	4	Type and source of danger
5	Possible consequences of non-observance	6	Procedure for hazard prevention

2.2.2 Meaning of the signal words and symbols

The following signal words are used in this document:

Signal word	Meaning
DANGER	Indicates a hazardous situation which will result in death or serious injury.
WARNING	Indicates a potentially hazardous situation which may result in death or serious injury.
CAUTION	Indicates a potentially hazardous situation which may result in minor or moderate injury.
NOTICE	Indicates a potentially hazardous situation which may result in property and environmental damage.

The following symbols for dangers, warnings, mandatory requirements and prohibitions are used in this document:

	General warning sign
	Wear head protection
	Wear eye protection
	Wear foot protection
	Wear hand protection

2.3 Requirements for personnel

The activities described in these instructions may only be performed by qualified personnel.

Qualified personnel are persons who are able to carry out the work assigned to them due to their technical training, knowledge and experience. They are familiar with the relevant standards and regulations and are able to recognize potential hazards on their own.

2.4 Personal protective equipment

Personal protective equipment is used to protect personnel from impairments to safety and health during work. Personnel must wear the personal protective equipment when performing all of the activities described in these instructions. The required personal protective equipment is indicated in the different chapters of these instructions.

2.5 Requirements for incorporation into a complete machine

The TAKTOCUBE is intended for assembly to form a complete, CE-compliant machine.

The manufacturer of the complete machinery or system is responsible for integrating the TAKTOCUBE into the system in such a way that completely safe operation is ensured.

3 Product description

3.1 Intended use

The TAKTOCUBE serves as a machine cell in which different devices can be installed by the customer. These devices include, e.g. robots or rotary indexing tables. Other devices may only be installed after consulting TAKTOMAT.

All applications deviating from this intended use are not permitted.

- Modifications must be approved by TAKTOMAT
- The TAKTOCUBE may only be operated within the defined operating parameters

3.2 Technical data

3.2.1 Operating conditions

Application range	indoors/in enclosed spaces: the installation room must be dry, clean and low-vibration
Temperature range [°C]	+10 to +40
Relative humidity [%]	40 to 70

3.2.2 Storage conditions

Application range	indoors
Temperature range [°C]	-22 to +50
Relative humidity [%]	40 to 70

3.2.3 Dimensions

The dimensions are provided on the TAKOTMAT website: www.taktocube.de

3.3 Product overview



Fig. 2: Baseframe

3.3.1 Options

Mounting plate and roof panel

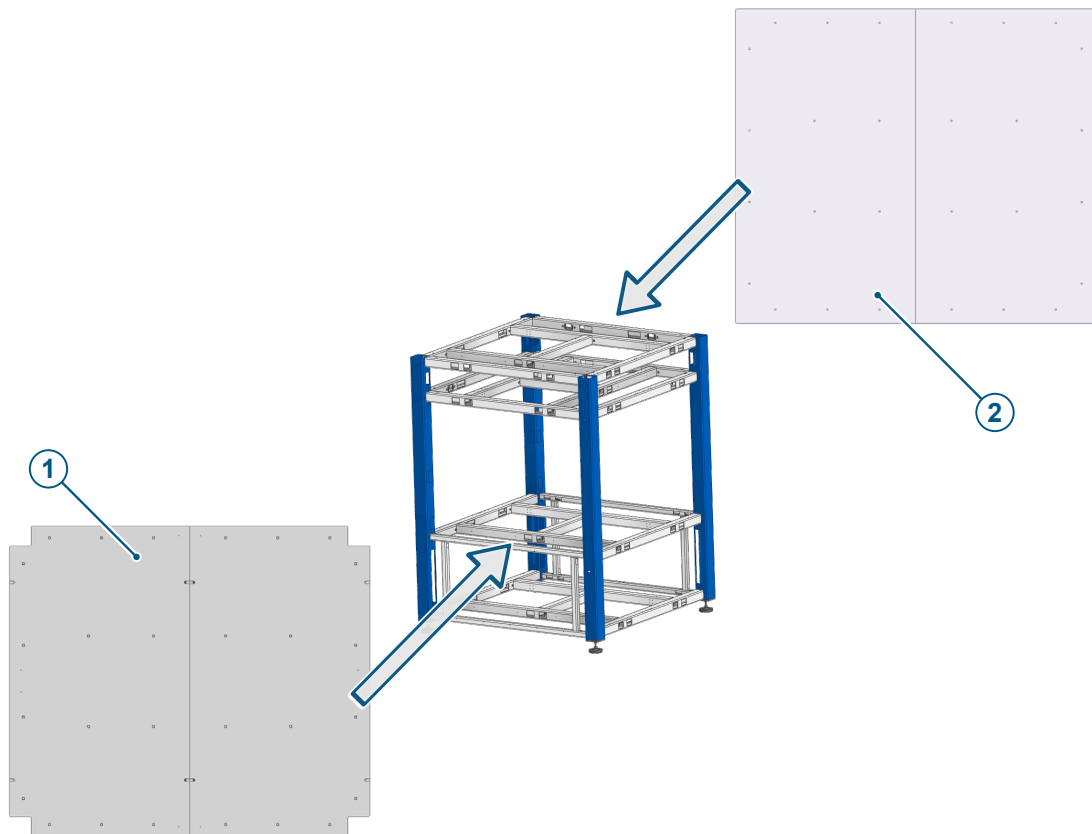


Fig. 3: Mounting plate and roof panel options

1	Mounting plate	2	Roof panel
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Top level

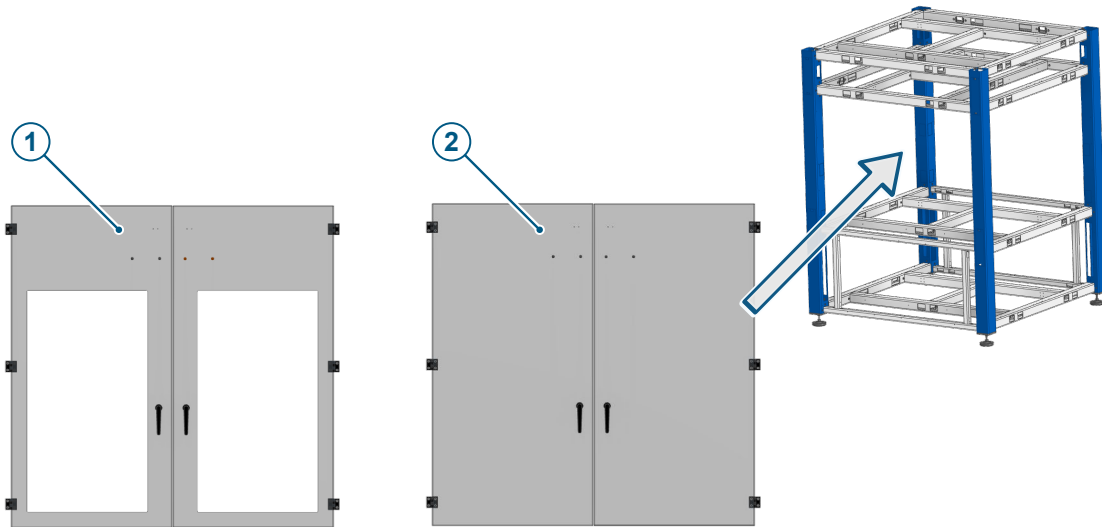


Fig. 4: Double side-hinged door, window and double side-hinged door, closed options

- | | |
|---------------------------------------|-----------------------------------|
| 1 Double side-hinged door with window | 2 Double side-hinged door, closed |
|---------------------------------------|-----------------------------------|

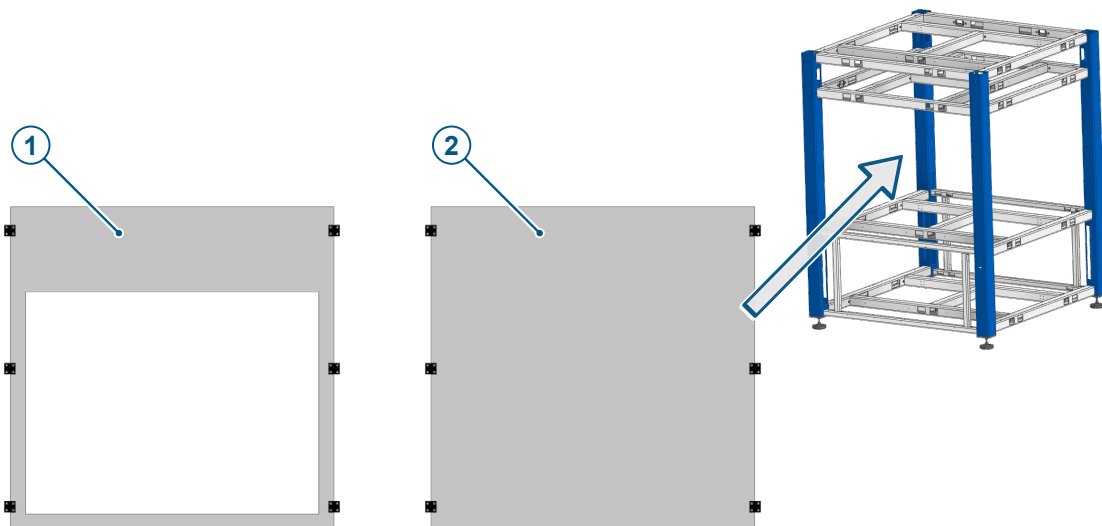


Fig. 5: Screw-in panel with window and screw-in panel, closed options

- | | |
|------------------------------|--------------------------|
| 1 Screw-in panel with window | 2 Screw-in panel, closed |
|------------------------------|--------------------------|

Bottom level

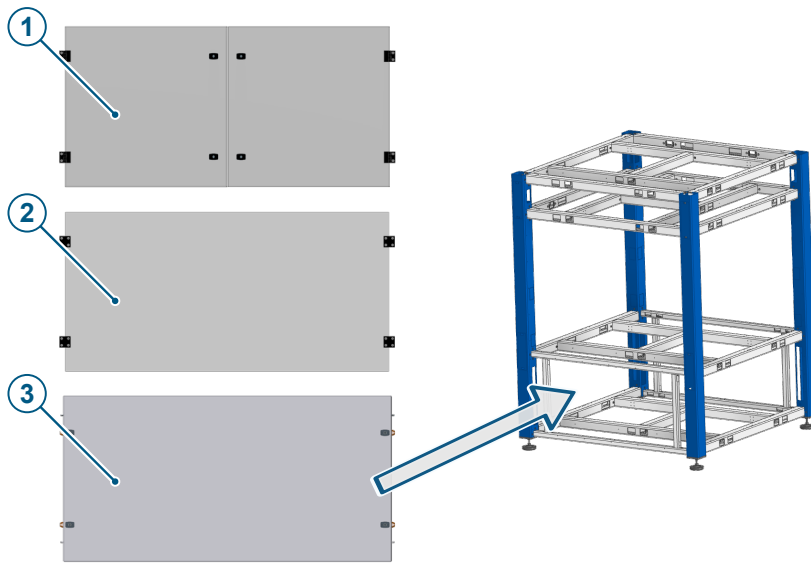


Fig. 6: Double side-hinged door, screw-in panel and hook-in panel options

- | | |
|---------------------------|------------------|
| 1 Double side-hinged door | 2 Screw-in panel |
| 3 Hook-in panel | |

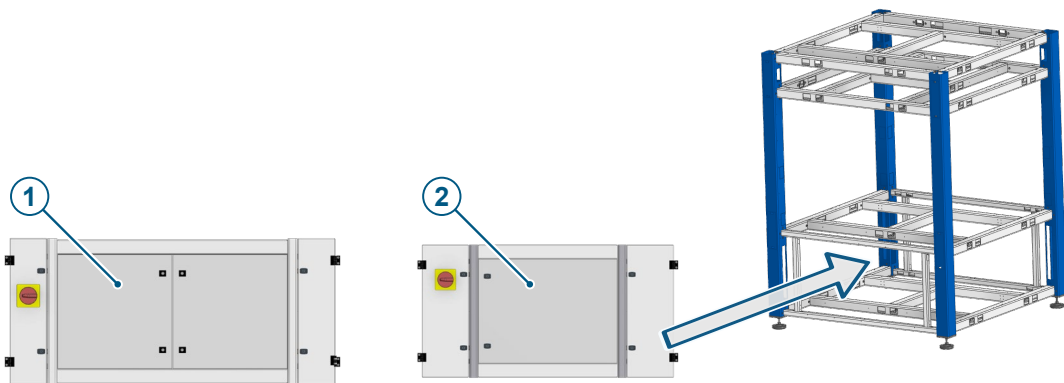


Fig. 7: Large control cabinet and small control cabinet options

- | | |
|--|---|
| 1 Large control cabinet
(from 2000 mm width, 2 side-hinged doors) | 2 Small control cabinet
(up to 1750 mm width, 2 side-hinged doors) |
|--|---|

4 Transport

Required personal protective equipment



WARNING

Tipping or falling loads



Loads can tilt or fall. This can cause serious or fatal injuries to persons.

- Keep unauthorized persons out of the danger zone
- Observe the weight and centre of gravity
- Use only suitable, approved and undamaged load carrying device, e.g. industrial truck or forklift truck

NOTICE



Damage to components

Improper transport can cause material damage

- Carry out transport carefully and note the symbols on the packaging
- Follow the operating instructions of the load carrying device

Check the delivery immediately on receipt for completeness and transport damage.

In the event of externally visible transport damage, observe the following:

- Do not accept the delivery or accept it only with reservations
- Note the extent of the damage on the transport documents or on the transport delivery note
- Report material damage to the manufacturer immediately

5 Disposal

Required personal protective equipment



NOTICE

Environmental damage

Improper disposal may result in environmental damage

- Dispose of components and operating materials in accordance with local regulations
- Observe the safety data sheets of the operating materials

Materials used

The components are mainly made of the following materials:

- Steel (outer housing)
- Plastic (window)
- Aluminium (machine plate)
- Rubber (seals, vibration dampers in the feet)

6 Spare and wear parts



NOTICE

The use of unsuitable spare parts may result in material damage

Spare parts must comply with the technical requirements specified by the manufacturer

- Only use original spare parts
 - Check spare parts for faults or defects prior to installation
-

Spare and wear parts are always order-specific. A corresponding spare and wear parts list is available from TAKTOMAT on request. When ordering spare parts, always specify the serial number. The serial number is located on the nameplate.