



Cobot Station

Operating / Installation Instructions

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1. General information

1.1 System manufacturer

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1.2 Version




Version	Type	Date
01	translation of the original document	06.06.2023

2. Safety

2.1 Intended use

The Cobot Station serves as a mobile stand for collaborative robots.

In the sense of the Machinery Directive 2006/42/EC, the Cobot Station is "interchangeable equipment". Declaration of conformity: see appendix.

 WARNING	
 	<p>Death or serious injury due to tipping of the Cobot Station There is a risk of injury if the Cobot Station tips over.</p> <ul style="list-style-type: none">• Consider tipping moments.• Fix the substructure to the floor if necessary.• Observe the mounting instructions of the cobot manufacturer.

3. Technical data

3.1 Compatible collaborative robots

Cobot	Unit	Value
max. reach	[mm]	1400
TCP speed	[mm/s]	500
max. handling weight	[kg]	10
max. dead weight of cobot	[kg]	40
Controls	Recommendation: Installation in the substructure	

Compatible, among others, with the following products:

ABB	Fanuc	UR
• CRB 14050 (YuMi)	• CR-4iA	• UR3e
• CRB 15000 (GoFa)	• CRX-5iA	• UR5e
• IRB/CRB 1100 (SWIFTI)	• CR-7iA and CR-7iA/L	• UR10e
	• CRX-10iA	
	• CRX-10iA/L	

Information: The reach and the handling weight are used to calculate the tipping moment, which is decisive for assessing the risk of tipping.

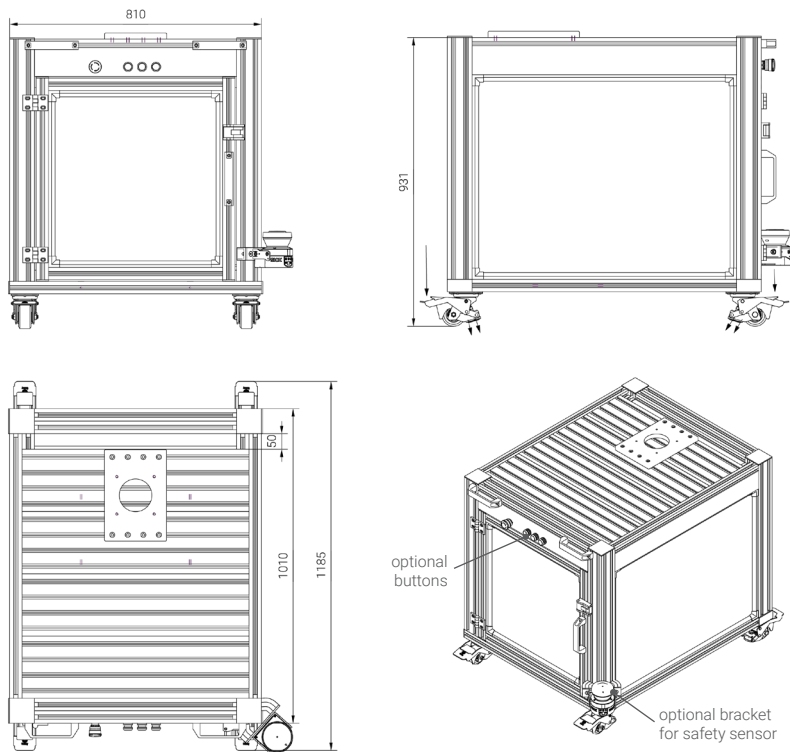
Substructure

Deviation from the standard dimensions can result in an altered stability .

Substructure	Unit	Value
min. width	[mm]	800
min. length	[mm]	1000
max. top surface height	[mm]	1000
min. weight	[kg]	70



4. Mechanical design

Dimensions:



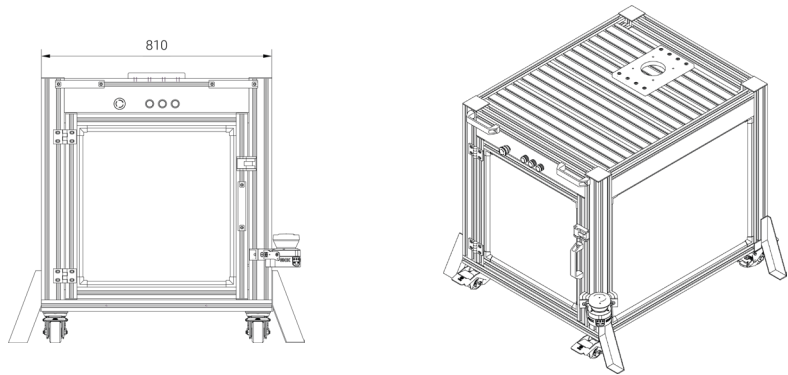
5. Assembly

5.1 Mounting a collaborative robot


 CAUTION	
	<p>Risk of injury if the cobot is too heavy or too large</p> <p>There is a risk of injury if the Cobot Station tips over.</p> <ul style="list-style-type: none">• Only mount compatible collaborative robots (see technical data).• Mount the cobot in the center.• Take tipping moments into account and fix the substructure to the floor if necessary.• Observe the mounting instructions of the cobot manufacturer.

NOTICE	
	<p>Material damage due to tipping</p> <p>There is a risk of damaging the cobot if the Cobot Station tips over.</p> <ul style="list-style-type: none">• Mounting must be carried out by authorized qualified personnel.• Only mount compatible collaborative robots (see technical data).• Mount the cobot in the center.• Take tipping moments into account and fix the substructure to the floor if necessary.• Observe the mounting instructions of the cobot manufacturer.

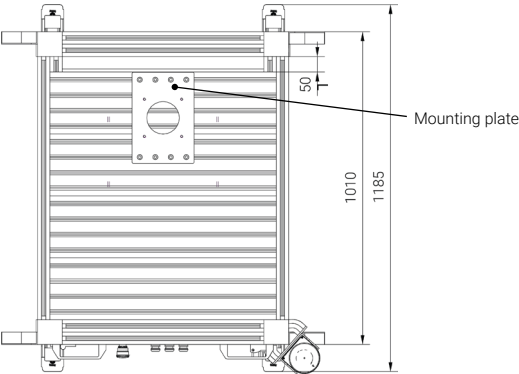
The manufacturer recommends the use of adjustable floor brackets (e.g. 4 x BAP2017 or 4 x BAP2051).



5. Assembly

Warning	
	<p>Risk of injury due to tipping over or falling of the cobot</p> <p>If screws are used that are too short, there is a risk of being pulled out.</p> <ul style="list-style-type: none">• Observe the installation instructions of the cobot manufacturer, in particular the screws specifications.• Consider using longer screws to utilize the full screw-in depth of the mounting plate.

Example drawing: central mounting position of the cobot






5.2 Cable routing, sensors

The cable routing and sensors are to be handled by the customer. If grounding is required, this must also be handled by the customer. All the connectors are conductive.

6. Transportation

6.1 Storage/transport conditions

 WARNING	
 	<p>Serious injuries due to tipping of the Cobot Station</p> <p>Incorrect storage or improper transport of the Cobot Station may result in injury to the upper and lower limbs.</p> <ul style="list-style-type: none">• Transport only with industrial trucks. Avoid suspended transport.• During transport and storage, secure the station to prevent it from tipping.

NOTICE	
	<p>Material damage due to improper storage</p> <ul style="list-style-type: none">• Do not store outdoors.

7. Commissioning

7.1 Personnel requirements

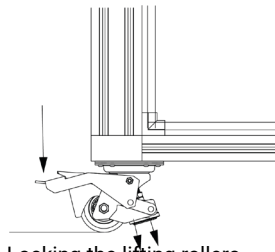
All work on the Cobot Station must be carried out by qualified and authorized specialists.

7.2 Connection/wiring

The connection/wiring of the cobot station is not performed by Robotunits. Please follow the instructions of the cobot manufacturer.

Procedure:

- Cobot is mounted
- ⇒ Lock the lifting rollers (see picture)
- ✓ Cobot station is ready for operation.



Locking the lifting rollers

CAUTION



Hazard due to Cobot Station rolling away

Risk of injury to the lower limbs due to the Cobot Station rolling away.

- Lock the lifting rollers before switching on the cobot.

8. Maintenance, servicing and cleaning

Proper maintenance of the interchangeable equipment is essential for reliable operation and a long service life.

Work to be performed by the operating personnel:

- Clean with dry or slightly damp soft cloths.
- Use a vacuum cleaner to remove larger quantities of contamination.
- Clean sensors, if necessary.
- Visual inspection for damage; if necessary, request repair from the plant maintenance department

9. Disposal

The product contains valuable materials (metals, plastics, electrical assemblies) which can be recycled separately.

At the end of its service life, the product must be taken to a specialist disposal center.

10. EU Declaration of Conformity

We, as the manufacturer of the interchangeable equipment, hereby declare under our sole responsibility that the designated interchangeable equipment complies with the harmonization regulations of the EU, as listed below. The listed relevant harmonized standards of the EU and, if applicable, further specifications were used as a basis for conformity.

Manufacturer: Robotunits GmbH
Dr. Walter Zumtobel Strasse 2
6850 Dornbirn, AUSTRIA

Product:



Relevant harmonization regulations (directives):

2006/42/EC (09/06/2006) Machinery Directive

Applied harmonized standards:

EN ISO 12100:2010 Safety of machinery - General principles for design - Risk assessment and risk reduction

Authorized representative for the technical documentation:

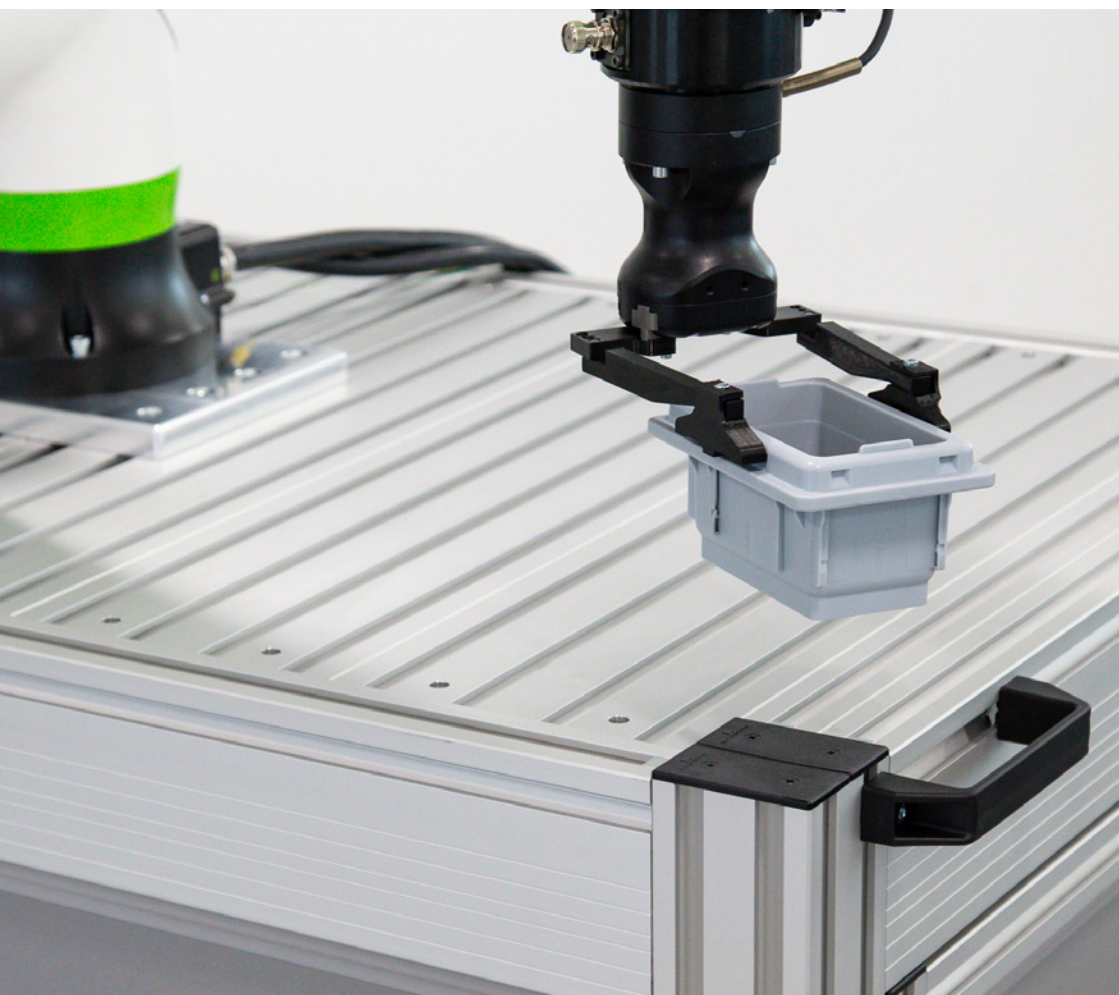
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Signed for and on behalf of:

Robotunits GmbH

Christian Beer
Managing Partner

Dornbirn, 13/01/2023



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