ER5 User Manual

Table of content

EasyRobotics Aps

Mommarkvej 5, 6400 Sønderborg

Denmark, info@easyrobotics.dk

Introduction/Intended Use

ER5 is designed for easy transport of a fully installed UR3 or UR5 robot from Universal Robots A/S. It is intended for use in confined spaces and to move a robot between different processing machines.

Safety Notice

Since ER5 is not bolted to the floor or other surroundings, pay special attention in order to avoid the ER5 from tipping over or moving by itself. When setting up a new task, be especially aware of the combination of payload, reaching distance and speed. Always make sure, that the ER5 will stay in place without moving or tipping over.

Installation

Relocate bracket for the teach pendant.

Unscrew the bracket from the side of the controller and attach it to the turnable mount. Reuse the original screws.
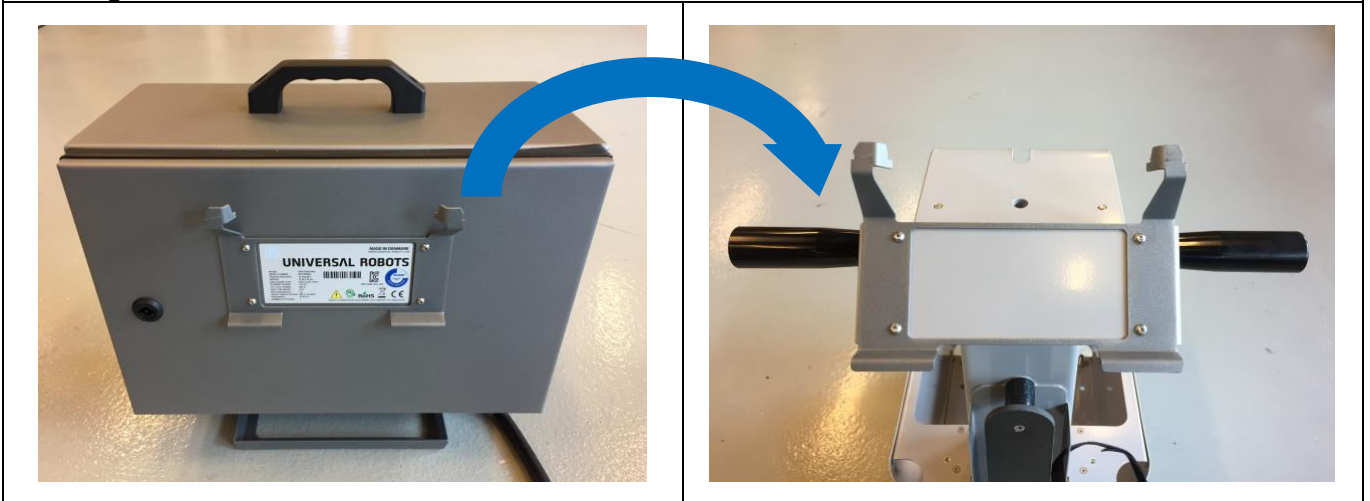
Mounting the controller

Unscrew and remove the tabletop. Loosen the screws that hold the pillar cover and remove the pillar cover.

Guide the power cord through the pillar and plug the female power connector into the controller.

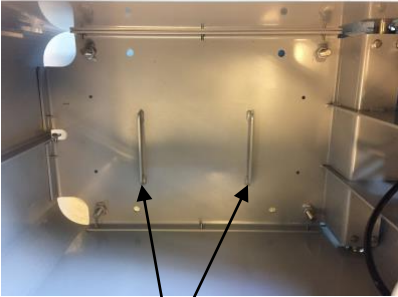View from inside the cabinet.

Guide the robot cable down through the pillar and plug the connector into the robot controller.

View from inside the cabinet.

⚠️	Place the robot controller in the cabinet. **Be careful not to pinch or stretch the cables!**		
			Back of controller must face left side of cabinet.
	Fit bracket window around the fixators at the bottom of the cabinet.		Make sure that none of the cables are pinched.

Mounting the robot

Follow the mounting guidelines in the UR3/5 manual.

⚠️	Attach the robot to the top console. **Be careful not to pinch the cable!**	Place the leftover robot cable between the controller and the left side of the cabinet.	

Mounting the teach pendant

Reattach the pillar cover.	

Guide the teach pendant up through the tabletop.	Place the teach pendant on its bracket and refit the tabletop. Put the excess cable down through the tabletop opening.

The UR robot is mounted at a 45 degree angle.	
	On the UR Installation tab under Robot Mounting and Angle you have to change the Rotation to 180 degrees and the Tilt to 45 degrees.

Storing the System

Wind the power cord onto the cord winder.	Optional: Secure the cord with a Velcro strap.	Park the teach pendant in the slot of the tabletop

Adjustments

Adjusting the bracket for the teach pendant

Turning the handles counter-clockwise will loosen the bracket for rotational adjustment. Use this to achieve an ergonomic angle of the teach pendant or to park the bracket at a convenient position for transport. Tighten the handles with the bracket in the desired position.

Adjusting the feet

Loosen the lock nut, adjust the foot by turning, tighten the lock nut.
The feet should be adjusted so
- the wheels are a few millimeters off the ground when the ER5 is parked
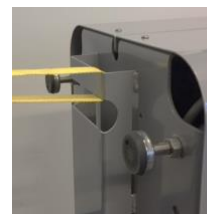- the ER5 stands stable without rocking
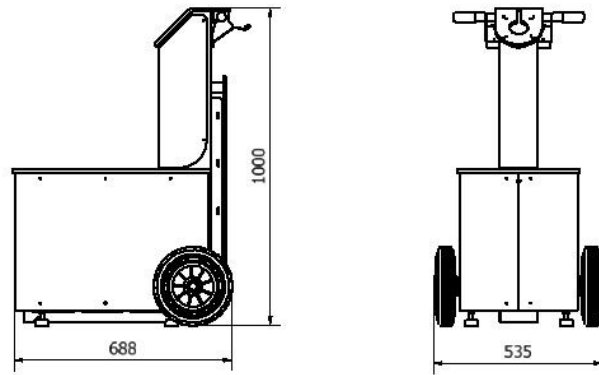

Transporting the System

Lashing for transport

When transporting the ER5, make sure to tie it down securely.
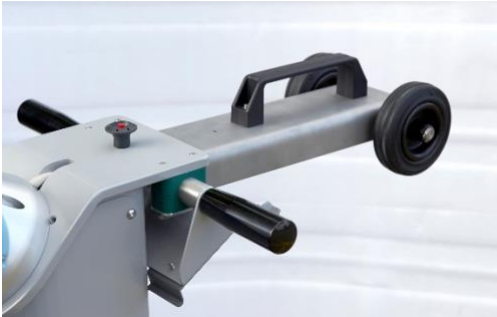Use the designated lashing points for securing the ER5 during transport.

Dimensions

Shown dimensions in mm.
Weight: 45 kg without robot.

Optional Equipment

Loading Unit
For easier loading/unloading in and out of cars.

Parts Plate
For demo, teaching and light production purposes.

Dock
For easy redeployment (not released by the deadline of this manual). Contact EasyRobotics ApS.