

ER200

USER MANUAL



EasyRobotics®
- we move your parts

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Design Protected

1 Introduction/intended use

ER200 is designed for integrating a cobot with a MIR AGV¹. It is intended for cobots with a maximum lifting capacity of 5 kg. Please read the "UR Interface - Technical documentation" from MIR before installing the ER200².

2 Safety notice

2.1 Introduction

The intension of this manual is to give a guideline of mounting a Universal Robot at the ER200 and this is not valid as a CE marking of the robot cell.

A risk assessment must be full filled after the full installation is concluded including the robot, gripper and other equipment and installations at the workspace.

ER200 must be correctly bolted to the MIR200 and be aware that the unit doesn't tilt while in use.

The local governmental safety rules and legislation must be followed when installing and running with a robot on the ER200.

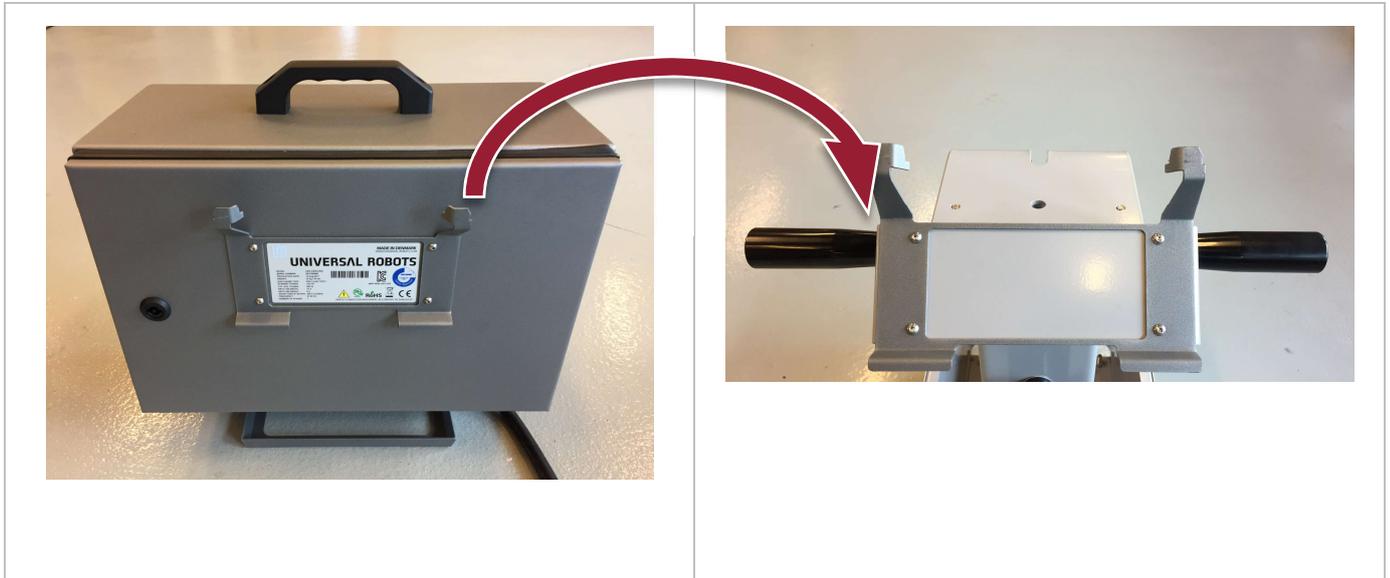
¹ Automated Guided Vehicle

² <https://www.mobile-industrial-robots.com/media/1338/mir100-ur-interface-installation-and-set-up-guide-11.pdf>

3 Installation

3.1 Relocate bracket for the teach pendant.

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



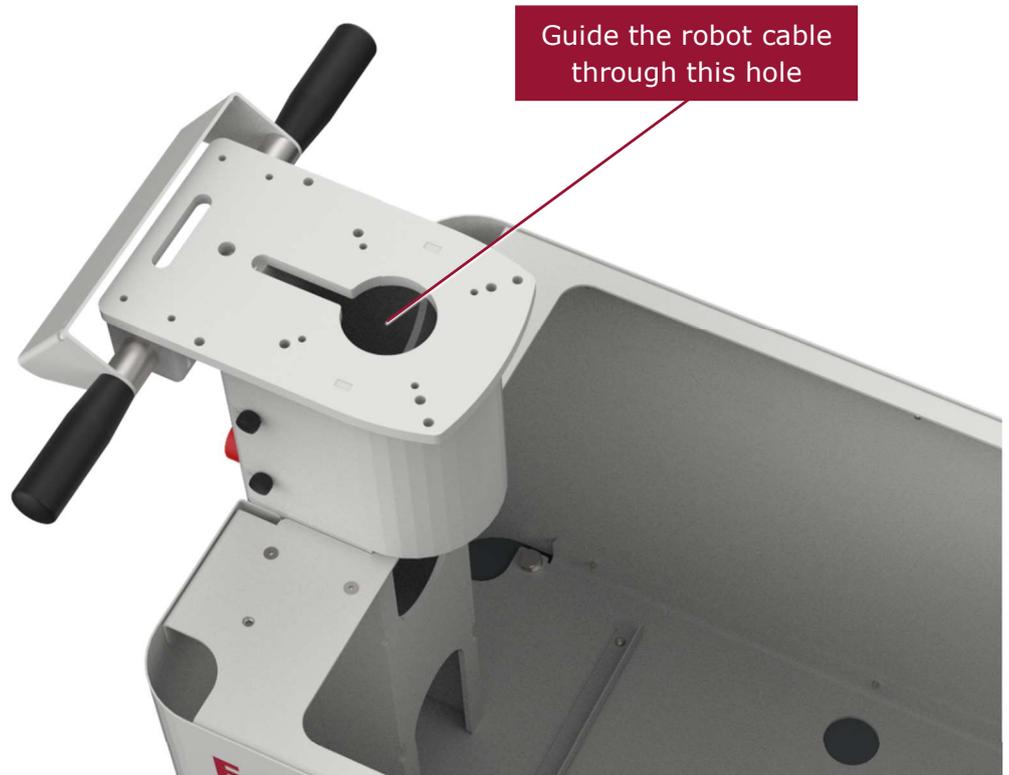
3.2 Mounting in MIR

Before mounting the ER200 to the MIR, please follow the instruction from MIR about placing extra batteries and where to drill the hole for the power cable.

 <p>The image shows the EasyRobotics ER200 robot unit, which is white with a grey top and a red emergency stop button, being placed onto a dark grey MIR base. The MIR base has four wheels and a handle on top.</p>	 <p>The image shows the EasyRobotics ER200 robot unit, which is white with a grey top and a red emergency stop button, being placed onto a dark grey MIR base. The MIR base has four wheels and a handle on top.</p>
<p>Place the ER200 on top of the MIR</p>	
 <p>The image shows the EasyRobotics ER200 robot unit, which is white with a grey top and a red emergency stop button, being placed onto a dark grey MIR base. The MIR base has four wheels and a handle on top. The tabletop is removed, and three wing knobs are visible on the top of the MIR base.</p>	 <p>The image shows the bottom of the EasyRobotics ER200 robot unit. Four red dashed circles highlight the locations of the four bolts that need to be fastened in the bottom of the ER200.</p>
<p>Remove the tabletop by loosen the three wing knobs</p>	<p>Fasten the four bolts in the bottom of the ER200</p>

3.3 Mounting the robot

-  Follow the mounting guidelines of the UR3/5 manual. Attach the robot on top of the horizontal robot console. *Mind the cable if connected.* Guide the robot cable down through the pillar and plug it into the robot controller.



Mount the UR-robot

3.4 Mounting the controller

Unscrew and remove the tabletop. Loosen the finger screws that holds the cover on the pillar and remove the cover.

Lower the controller into the ER200 and place it inside the enclosure.



Check that none of the cables are squeezed.



Place the controller in the marked area with the door faced like shown.



3.5 Mounting the teach pendant



Place the two Teach pendant holders from the controller and mount them onto the bracket



Mount the teach pendant and place the cable through the slot beside the robot.

3.6 Mount the MIR top camera

Place the MIR top camera on the included bracket.



4 Adjustments

4.1 Adjusting the bracket for the teach pendant

Turning the handles counterclockwise 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.



5 Dimensions

