Helix Lab

Laboratory equipment

Robotics Lab laboratory

UR5e (4x) A 6-DOF 20.6 kg robotic arm for object manipulation and task handling with a reach of 850 mm, a 149 mm footprint and a payload capacity of 5 kg. The robot comes with a control box containing configurable digital and analog in/out for external equipment along with teach-pendent for easy programming.	
UR10e (2x) A 6-DOF 33.5 kg robotic arm for object manipulation and task handling with a reach of 1300 mm, a 190mm footprint and a payload capacity of 12.5 kg. The robot comes with a control box containing configurable digital and analog in/out for external equipment along with teach-pendent for easy programming.	
MIR250 An autonomous mobile robot for transportation, best suited for indoor environments with a payload capacity of 250 kg, an 800x580 mm footprint and an estimated runtime of 13 hours. The robot can be programmed through a web-interface.	
ER-Flex An MIR250 autonomous mobile robot equipped with an UR5e with a camera for transportation, inspection and object manipulation. The robot comes with a payload capacity of 12kg, an 890x580x1500 mm footprint and an estimated runtime of 8 hours. The robot can be programmed through a web-interface.	
OnRobot tools The Onrobot tools can be mounted to the robotic manipulators for additional flexibility. The tools are equipped with an external interface that communicates with the robot platforms when connected for easy programming.	
MiR Charging Station (2x) The MiR charging stations can be used by the mobile platforms for easy charging. The station is designed with a visible marker such that the MiR platforms can locate them using their sensors.	
DEXI Drone The Dexi drone is primarily made for research and development meaning that it can be customized for a wide variety of tasks. The drone comes with bundle of sensors including a camera and a flow sensor making it suitable for projects where a high degree of autonomy is required.	
Boston Dynamics Spot Robot Spot is a quadruped robot made for tasks that require traversal through more complex environments. The robot comes with a controller along with an SDK allowing the user to program their own solutions using premade code in Python.