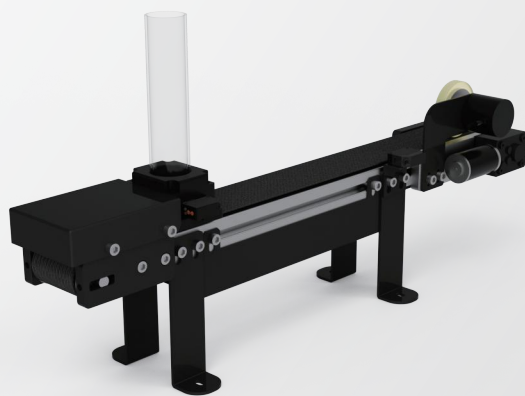


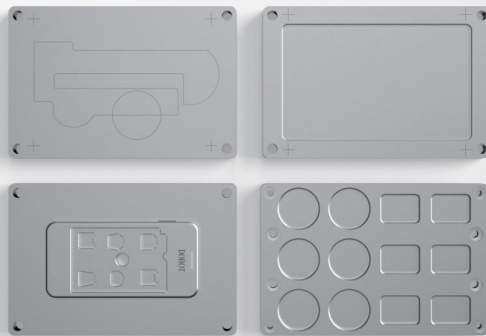
Conveyor Kit

The Conveyor Kit, equipped with the electric feeding push rod, material level sensors, travel encoders, and other units, is intended to simulate the material transfer in the production line. By collaborating with the robot, it can be used for various applications including automatic feeding, positioning & gripping, etc.



Function Board

The Function Board Storage Box on the training bench comes standard with multiple function boards, including the trajectory board, the standard detection board, the mobile phone model positioning board, and the guiding assembly board. By collaborating with the robot system and the vision system, they can be used for visual positioning, measurement, detection, and recognition in various applications, such as trajectory tracking, positioning & gripping, stacking, and assembly.



Toolbox

The toolbox is used to store the spare parts and tools of the training bench. Its custom lining structure helps reduce vibration or impact, ensuring safe storage of spare parts and tools. The toolbox contains experimental workpieces, tools, robot end-effector adapters, calibration pins, suction cups, screws, spare connectors, etc.

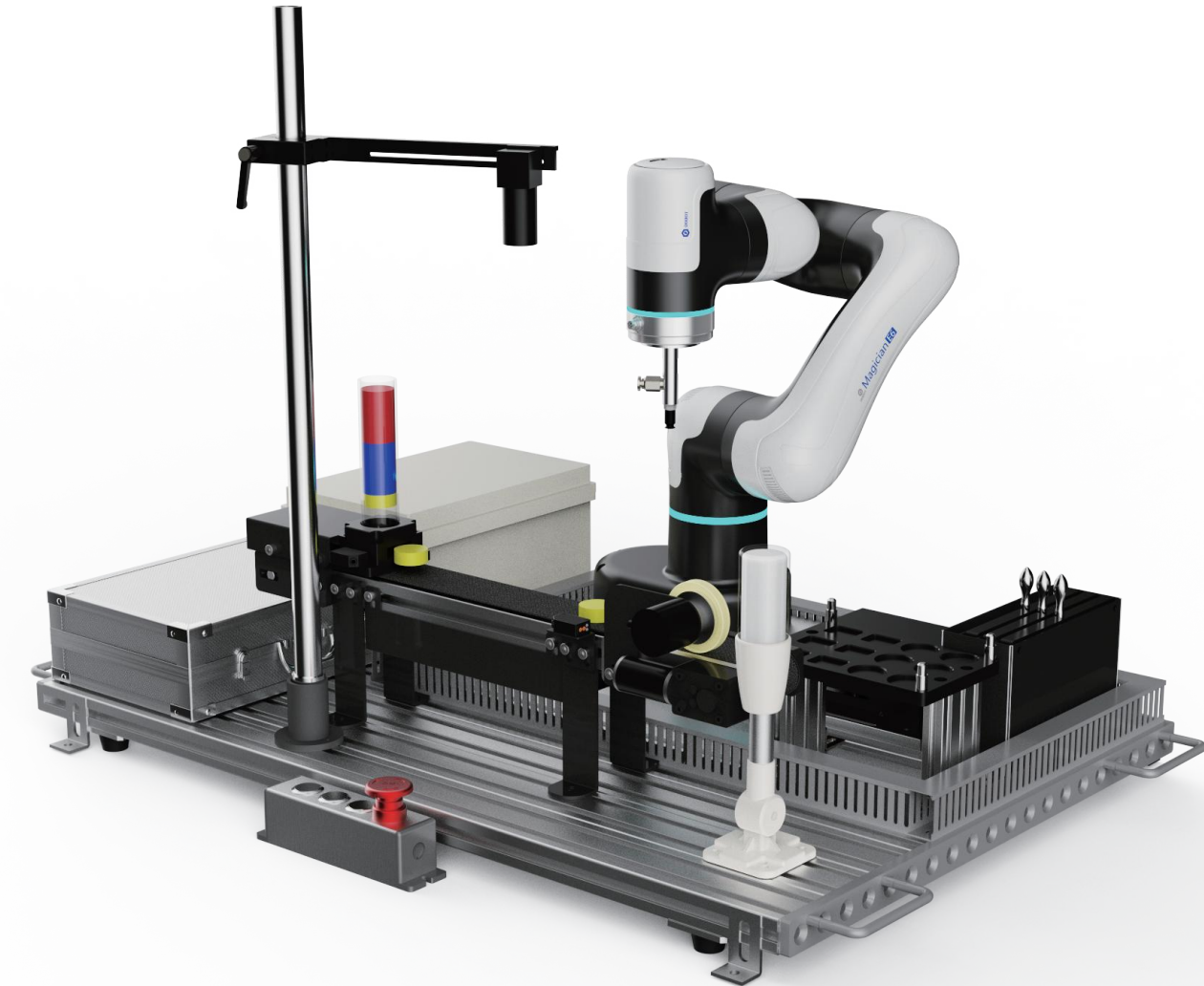


Practical Training Programs

Fundamentals	Installation of practical training bench
	Basic robot operations
Application of Robots	Trajectory simulation
	Status indicator
	Static stacking
	Conveyor belt
Application of Machine Vision System	Visual sorting system
	Mobile phone chip assembly

Configuration List

No.	Name		Quantity	Remarks	Description
1	Dobot Robot		1 pc	Dobot CR3/E6/MG400 optional	Optional
2	Vision Kit		1 set	Includes industrial camera/ prime lens/light source/camera mount	Optional
3	Conveyor Kit		1 set	Includes conveyor modules/feeding modules/encoders	Standard
4	PLC Modules		1 set	Included Siemens 1200 Series/HMI touch screen	Optional
5	General Purpose Practical Training Bench	Mini Air Pump Box	1 set	Air pressure: -70~110 kPa	Standard
		Function Board Storage Box	1 set	Used to store the trajectory board, the standard detection board, the mobile phone model positioning board, etc.	
		Guiding Assembly Board	1 set	Includes fixing base	
		Control Buttons	1 set	Includes Start/Stop/Reset/Emergency Stop	
		Status Indicator	1 set	Includes beeper, color-changing red/green/yellow indicator	
		Electric Cabinet	1 set	Includes electric components (for power distribution and wiring)	
		Toolbox	1 set	Includes spare parts, experimental workpieces, suction cups, calibration pins, tools, etc.	
		Training Bench Base	1 set	Dimensions: approx. 600 mm * 900 mm	
Note: The conveyor kit can be purchased independently and be used with Dobot robots (MG400, Magician E6, or CR Series).					



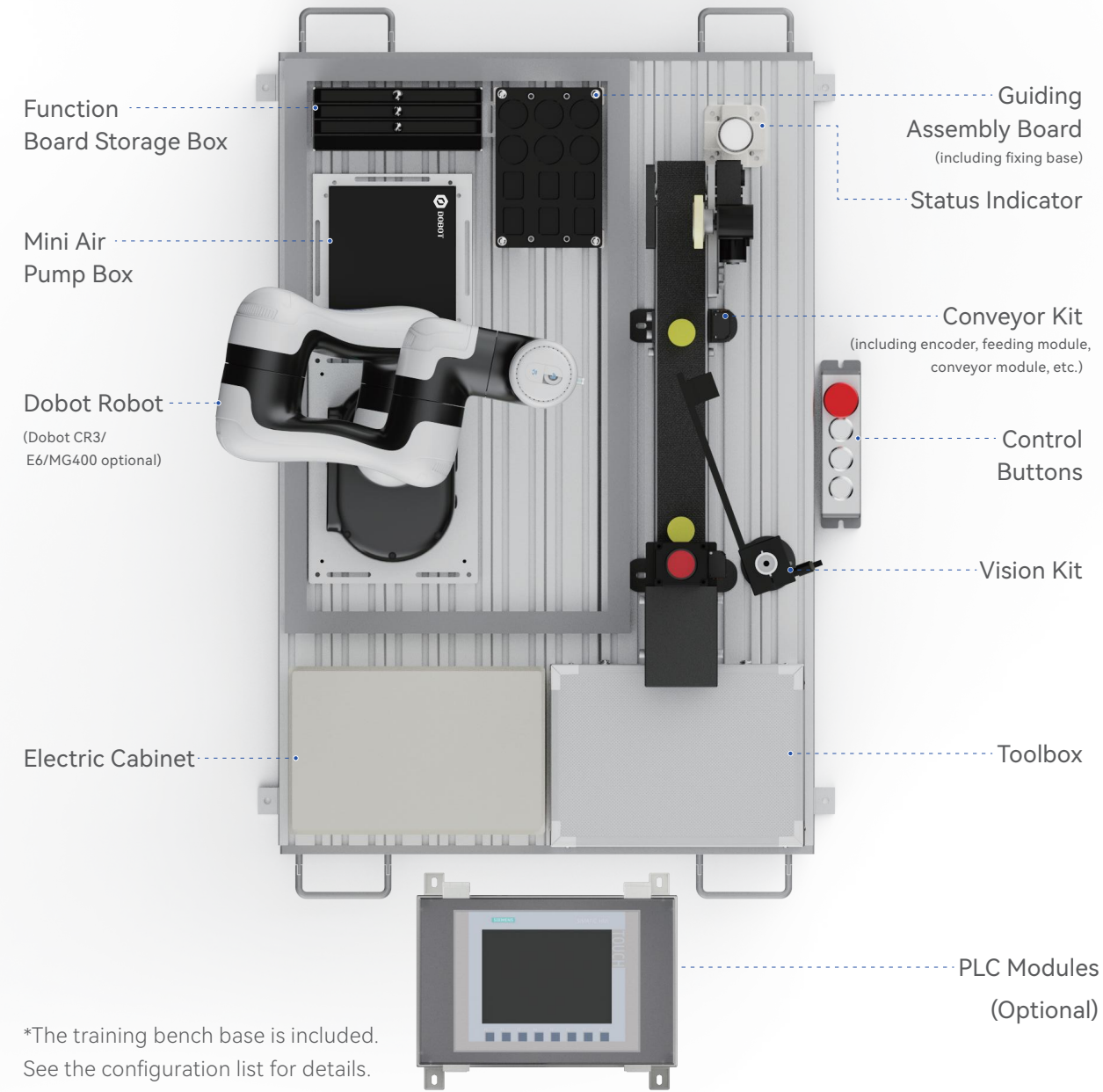
General-Purpose Collaborative Robot Practical Training Bench



General-Purpose Collaborative Robot Practical Training Bench

The Dobot general-purpose collaborative robot training bench is specially designed for teaching, research, and enterprise training. It integrates the robot, the control system, the vision system, the conveying system, and other units. With modular design, it can be flexibly combined for both automation task simulation (e.g. detection, gripping, handling, stacking, and assembly) and teaching tasks (e.g. robot system calibration, trajectory tracking, and communication control). It helps learners quickly acquire relevant skills they need to operate the robot smart system, and effectively improve their practical ability and innovation skills.

Components



Product Features

Versatility

It can be used for various teaching programs, such as robot system calibration, trajectory tracking, and communication control. Combined with standard experimental workpieces, it can perform tracking, gripping, detection, handling, stacking, precise assembly, and other tasks.

Widespread Compatibility

It is suitable for various teaching programs about the robot system, the machine vision system, and PLC modules (optional). Learners can cope with most automation applications. The conveyor kit can be used independently with the robot.

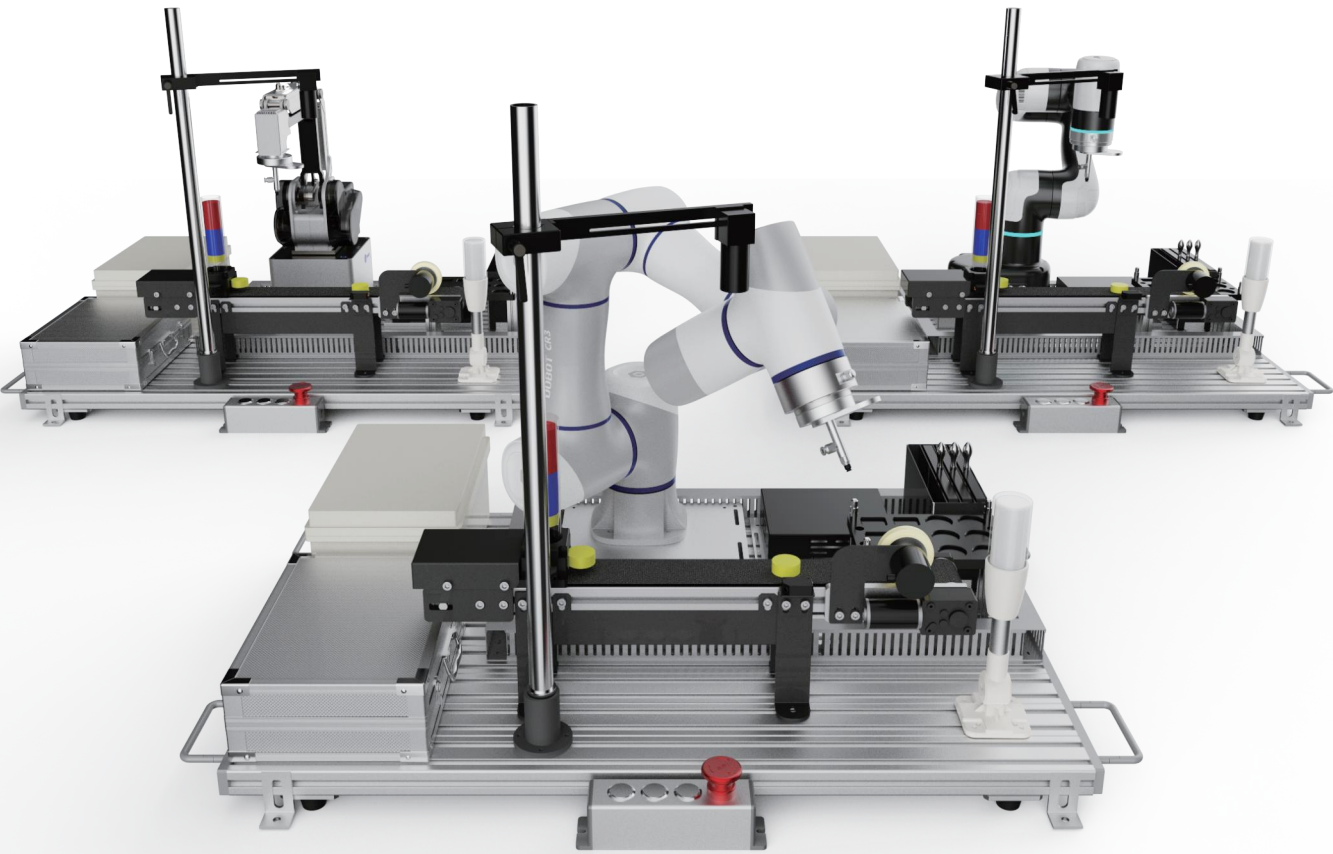
Easy-to-Use

It can work with lightweight Dobot collaborative robots such as CR3, E6, and MG400. Being readily usable, a combination of flexible modules can be used for a variety of automation projects.

Core Unit

Dobot Robot

A Dobot collaborative robot (CR3/E6/MG400 optional) can be equipped flexibly to meet the needs of specific application scenarios.



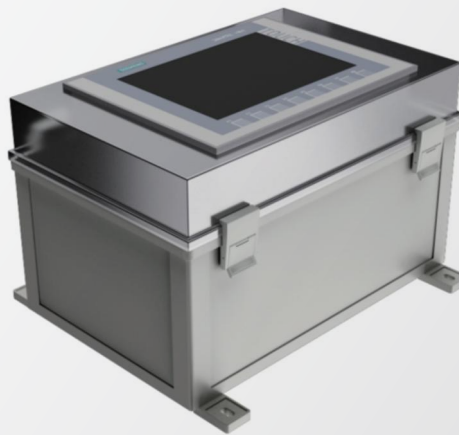
Vision Kit

The vision system, based on the Dobot machine vision software and hardware platform, provides more than a thousand image processing algorithms and a powerful tool library for visual analysis. With rapid visual positioning, measurement, detection, and recognition, it is ideal for diversified experimental projects and applications.



PLC Modules

The PLC Modules consist of the Siemens S7-1200 PLC, I/O expansion modules, and the HMI touch screen. The HMI touch screen allows for quick debugging and control of the PLC system, greatly improving the efficiency and accuracy of the equipment.



Mini Air Pump Box

The Dobot Mini Air Pump Box can be connected to the robot via the I/O interface and supplies air at a pressure from -70 kPa to 110 kPa. It can be used in conjunction with suction cups in applications such as flexible gripping and handling.

