FlexiGuard Tending Station

Robust access. Controlled guarding. Flexible robot integration.

A heavy-duty enclosed platform for CNC machine tending, loading and unloading, assembly, and material handling.

ENCLOSED CNC TENDING PLATFORM

Compatible with 99% of modern cobots

Many industrial robots after validation

Robot adapter plate ordered separately

IMPORTANT - ORDER THE ROBOT ADAPTER PLATE

Select the exact robot brand and model in the EasyRobotics online configurator. If the standard interface does not fit, the mounting solution can be customized.

99%

of modern cobots

800 kg

industrial platform mass

1500 x 1000

mm work surface

Industrial strength. Engineered for uptime.

A rigid steel platform, protected controller space and defined anchoring create a stable base for demanding tending cycles.

RIGID ENCLOSURE + PROTECTED BASE

800 kg

Structural mass for a stable industrial platform

1500 x 1000 mm

Large perforated tending surface

1000 x 700 x 750 mm

Protected controller compartment

Max. 8 bar

Regulated dry-air connection

PLATFORM ARCHITECTURE

01 **CNC machine** → 02 **Enclosed tending cell** → 03 **Robot + gripper** → 04 **Fixture / grid plate** → 05 **Safety chain**

1 Rigid enclosure

Steel structure and enclosed service zones protect equipment in demanding production environments.

2 Floor anchoring

The station is levelled and securely fixed to the floor for repeatable robot operation.

3 Ventilated base

Six service doors with ventilation openings support cooling and maintenance access.

4 Integrated controls

Space isprovidedforrobotcontrol, electrical equipment, emergency stop and status indication.

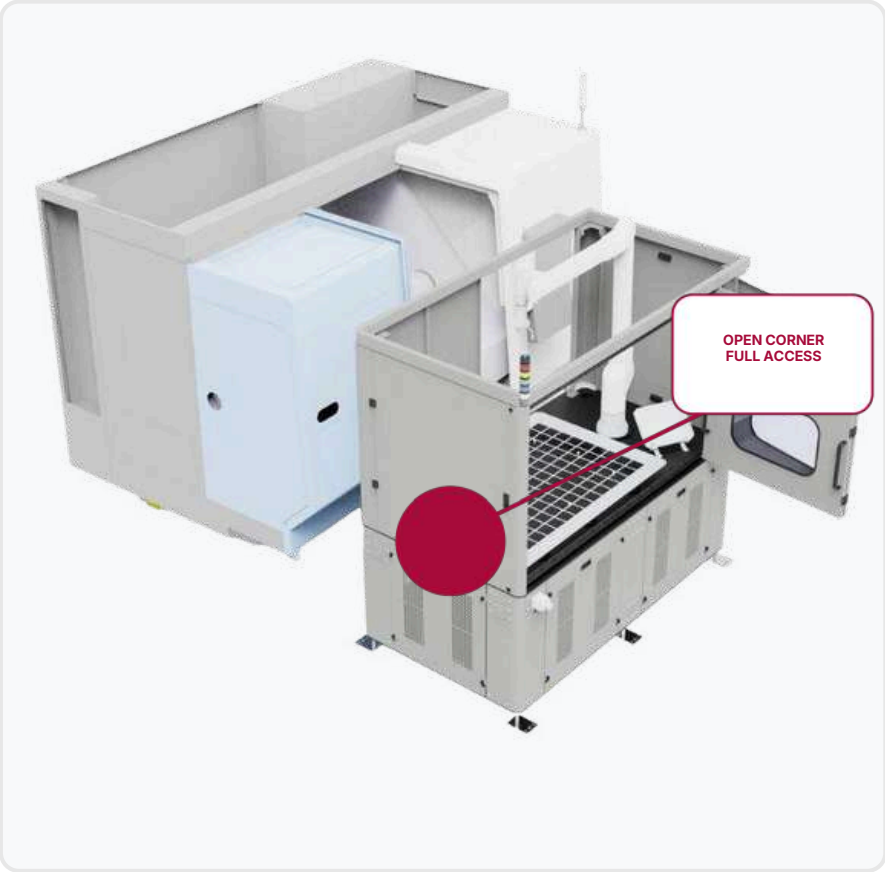
Controller and electrical equipment are housed in the lower base.

Enclosure sections are mechanically fixed to the rigid base.

Floor anchoring and levelling are required before operation.

Open the corner. Reach the entire table.

The access concept clears the front-side corner so operators can load, fixture, clean and service the complete work surface.



01 **Stop and unlock**

Bring the system to a safe state before opening any access element.

02 **Slide the front door**

The front door runs on an industrial Igus rolling rail for smooth manual opening.

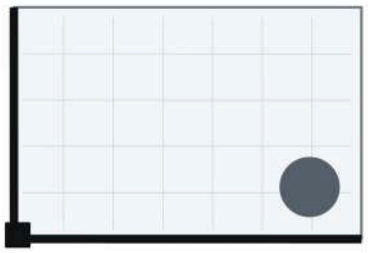
03 **Open side and corner**

Open the side access and corner section to remove the fixed obstruction at the table edge.

04 **Use the full surface**

The complete 1500 x 1000 mm grid plate is accessible for changeover and service.

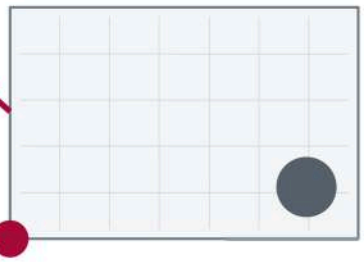
CLOSED - PRODUCTION MODE



Guarding forms a controlled enclosure around the robot and process.

OPEN - CHANGEOVER MODE

OPEN



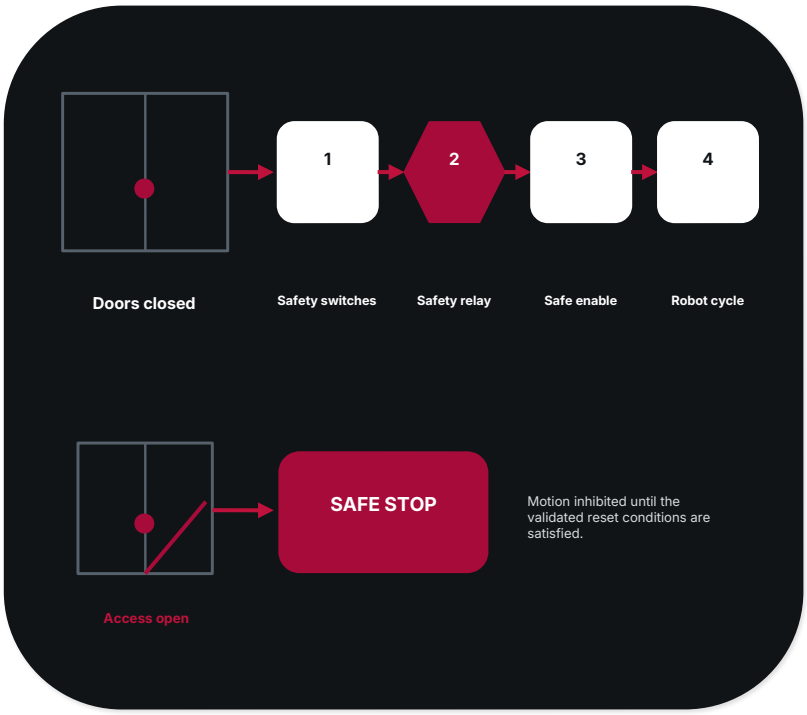
Front, side and corner access create an unobstructed loading path.

SAFE ACCESS CONDITION

Robot motion must be stopped whenever a door or corner section is open or removed.

Closed guarding. Safety without unnecessary complexity.

Safety-rated access monitoring can connect the doors to a monitored stop circuit and controlled restart sequence.



1 Monitored access

Door and gate switches supervise the protected access points.

2 Safety relay logic

A safety-rated relay or safety controller evaluates the access chain and requests a safe stop.

3 Controlled restart

After access is closed, reset and restart are handled according to the validated cell concept.

4 Scanner-free potential

In many enclosed and validated layouts, the guarded concept can remove the need for costly area scanners.

A SCANNER IS NOT AUTOMATICALLY REQUIRED

When all access points are closed and safety-rated interlocks and relays are correctly integrated, the enclosure may provide the required safeguarding without an area scanner. The final decision depends on the robot, process, tooling, access points and the complete risk assessment.

AREA SCANNER

INTEGRATOR RESPONSIBILITY

The integrator remains responsible for the risk assessment, safety functions, validation and conformity of the complete robot cell.

99% of cobots. Many industrial robots.

A broad mounting concept covers most collaborative robots, while project engineering extends the platform to many industrial robot applications.

99%

OF MODERN COBOTS

PUBLISHED COMPATIBILITY

Standard cobot compatibility

Published compatibility covers 99% of modern cobots when the correct robot adapter plate is selected.

Industrial robot integration

Many compact and medium industrial robots can be integrated after technical review of loads, reach and safeguarding.

Custom engineering

If the standard mounting interface does not fit, the adapter plate, tower or mounting position can be customized.

TECHNICAL REVIEW FOR INDUSTRIAL ROBOTS

1. Robot mass and payload
2. Base moments and dynamics
3. Reach and collision envelope
4. Mounting pattern and orientation
5. Cable routing and service access
6. Required guarding and safety functions

CONFIGURATION WORKFLOW

01 Select robot model → 02 Choose adapter plate → 03 Verify loads and reach → 04 Add custom interface if required → 05 Confirm complete cell

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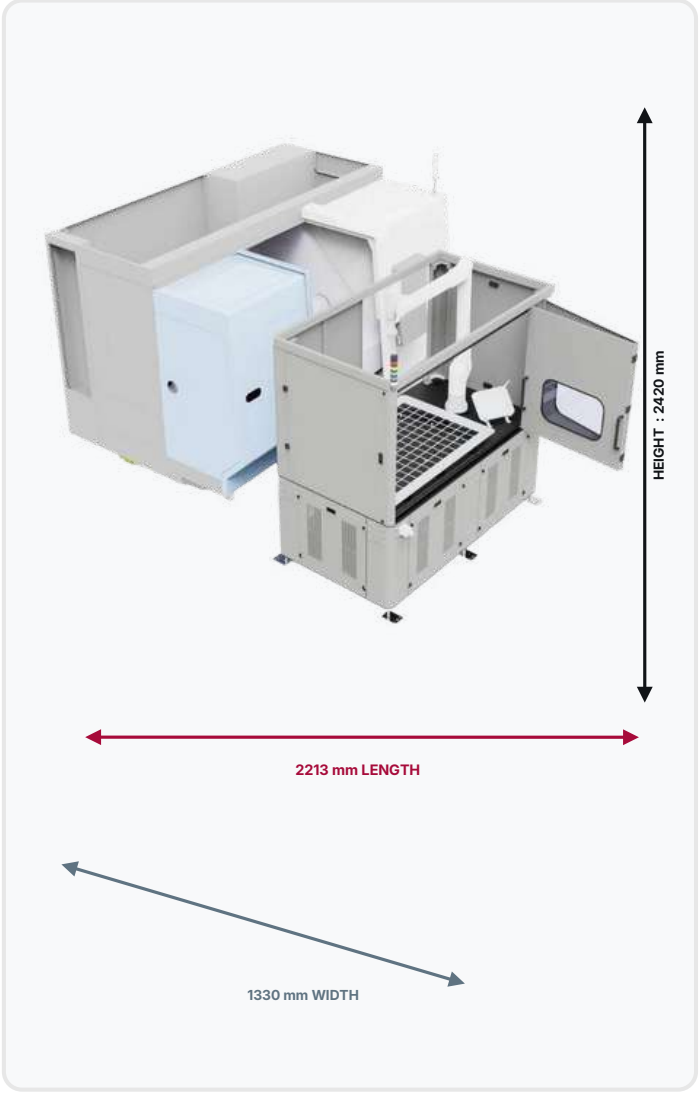
DO NOT OMIT THE ADAPTER PLATE

The robot-specific adapter plate is a separate order item unless explicitly included in the quotation. Use the EasyRobotics configurator or request a customized interface.

Technical specification

Commercial reference values for the standard FG-1000-T configuration.



Order code	FG-1000-T
Overall dimensions (L x W x H)	2213 x 1330 x 2420 mm
Product weight	800 kg
Work surface	1500 x 1000 mm perforated grid plate
Robot mount	0 deg or 45 deg
Comp atibilit y	99% of modern cobots; many industrial robots after review
Controller compartment	1000 x 700 x 750 mm
Air supply	Max. 8 bar dry air
Floor anchoring	Required
Teach pendant bracket	Included
Interface	Selector switch; project-specific I/O / terminal integration
Access	Manual front and side doors; front door on rolling rail

WORK SURFACE

1500 x 1000 mm perforated grid plate for fixtures and optional part trays.

CONTROLLER SPACE

Protected 1000 x 700 x 750 mm lower compartment with service access.

Reference values may vary with robot, options and project engineering. Approved quotation and project drawings take precedence.

Configure the station around the process.

Standard equipment, published options and engineered additions create a cell for the robot, part flow and site safety concept.

STANDARD EQUIPMENT

Perforated grid plate
1500 x 1000 mm tending surface

Controller compartment
Protected and ventilated lower base

Teach pendant bracket
Two possible mounting locations

Tower light and E-stop
Status indication and emergency stop architecture

Manual access doors
Front rail-guided door and side access

PUBLISHED OPTIONS

Wheels
For planned relocation and service handling

Floor dock
Repeatable station positioning

Safety scanner cover
Only where a scanner-based concept is selected

Adjustable parts tray
Replaceable with eight M8 screws

ENGINEERED OPTIONS

Robot adapter plate
Robot-specific interface selected in the configurator

Custom fixture / tray
Part-specific nests, plates and loading layouts

Industrial robot integration
Robot loads, tower, cables and guarding engineered to project

Safety control package
Door interlocks, safety relays and project-specific interfaces

Customer fixture I/O
Sensors and terminal integration for the process fixture

TYPICAL APPLICATIONS

- CNC machine tending
- Loading / unloading
- Assembly
- Material handling
- Inspection
- Finishing

Options are supplied only when listed in the quotation or order confirmation.

Ordering overview

Published product reference plus configurable and project-specific order items.

Order reference	Item	Configuration / ordering note
FG-1000-T	FlexiGuard Tending Station	H: 2420 mm, W: 1330, L: 2213, Wt: 800 kg, Incl Tending grid plate W: 1000 × L: 1500 mm
Configurator item	Robot adapter plate	Mandatory robot-specific interface unless explicitly included in the quotation
Quotation / configurator	Adjustable parts tray or custom fixture plate	Component-specific geometry and capacity
Quotation / configurator	Wheels	Mobility option; operating position and anchoring must be validated
Quotation / configurator	Floor dock	Repeatable positioning for planned relocation
Quotation / configurator	Safety scanner cover	For projects using a scanner-based safeguarding concept
Project / quotation	Safety relay and interlock package	Final scope defined by the complete cell risk assessment
Engineering / quotation	Industrial robot or custom mounting interface	For robots and layouts outside the standard adapter range

REMEMBER THE ROBOT ADAPTER PLATE

Select the exact robot model in the EasyRobotics website configurator. Scan the code for the current FlexiGuard product page.

PRODUCT PAGE

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Errors and changes excepted. EasyRobotics reserves the right to correct errors and omissions and to change design, dimensions, specifications, software, order references, availability and documentation without notice. The approved quotation, order confirmation and project drawings always take precedence. The final robot cell must be risk assessed and validated by the integrator.