

ProFeeder X-XL

High-capacity robot-feeding platform for CNC machine tending

Large trays. Integrated robot mounting. Built for industrial uptime.

ProFeederX-XL combines a 500mm wider high-mass frame, large 780x620 mm drawers and integrated robot mounting in one floor-anchored production platform. Choose 2, 5 or 10 drawers with Mechlock or Airlock to match part height, required autonomy and production flow.



LARGE DRAWER FORMAT

780 x 620 mm work area | 90 kg rated load per drawer



SCALABLE CAPACITY

2, 5 or 10 drawers | parts up to 320 mm high



COMBINED X-XL CELL

Robot + adapter plate + controller + feeder on one anchored base

Compatible with 99% of modern cobots

Suitable for many industrial robots*

Custom robot interface available



IMPORTANT - ORDER THE ROBOT ADAPTER PLATE

Select and order the adapter plate for the exact robot brand and model in the configurator at easyrobotics.biz. Unless explicitly included in the quotation, the adapter plate is a separate order item.

*Industrial-robot suitability is subject to payload, base moment, reach, mounting interface, anchoring and safeguarding verification.

Robust by design. Built for repeatable production.

High static mass, floor anchoring, rated 90 kg drawers and integrated robot mounting.



HIGH-MASS FLOOR-ANCHORED X-XL PLATFORM

1

High static mass

Published configurations weigh 535 to 780 kg, supporting a stable, low-vibration production platform.

2

90 kg per drawer

The large drawers are rated for 90 kg including component, tray insert and fixture.

3

Floor anchoring required

The cell must be aligned, levelled and securely anchored before any production operation.

4

Published tray stiffness

Product data specifies no more than 2.5 mm deflection at the rated 90 kg drawer load.

5

Integrated robot architecture

A defined 0° or 45° robot position, protected controller space and teach-pendant bracket are built in.

6

Protected service layout

Controller, cables, locking hardware and drawer mechanisms remain organized within the platform.



MECHLOCK OR AIRLOCK

LOAD PATH & CELL ARCHITECTURE

01

Parts and fixtures



02

90 kg rated drawer



03

Locking system



04

Rigid anchored X-XL frame

Operating rule: do not extend more than one drawer on each side at the same time.

ProFeeder X-XL - extended capacity

A 500 mm wider frame with large 780 x 620 mm drawers.



INTEGRATED ROBOT MOUNT

ProFeeder X-XL retains the integrated robot architecture while increasing useful tray area. The 2-drawer configuration handles parts up to 320 mm high, the 5-drawer configuration up to 160 mm, and the 10-drawer configuration maximizes autonomy for parts up to 80 mm.

Footprint

920 x 1420 mm

Drawer area

780 x 620 mm

Drawer load

90 kg

Pull force

20 N

2 drawers	535 / 550 kg part 320 mm
5 drawers	685 / 700 kg part 160 mm
10 drawers	725 / 780 kg part 80 mm
Controller space	600 x 280 x 450 mm
Locking	Mechlock or Airlock
Robot mount	0° or 45°

THREE LARGE-TRAY CAPACITY LEVELS



2 DRAWERS

535 / 550 kg
part 320 mm



5 DRAWERS

685 / 700 kg
part 160 mm



10 DRAWERS

725 / 780 kg
part 80 mm

Per drawer examples: 56 square parts at 80 x 80 mm or 72 parts with 72 mm teardrop geometry.

Order the robot-specific adapter plate separately. Select the exact robot brand and model in the EasyRobotics website configurator.

Choose the locking system for the application

The same tray capacity with either mechanical simplicity or pneumatic control.



MECHLOCK

Mechanical drawer locking without compressed air or electrical control. A direct, robust choice for applications where manual release is sufficient.



AIRLOCK

Pneumatic drawer locking with max. 8 bar dry air and a digital I/O switch interface. The lock can be integrated into the robot sequence.

LOCKING CHOICE BY CAPACITY

Drawer count	Mechlock weight	Airlock weight	Max. part height
2 drawers	535 kg	550 kg	320 mm
5 drawers	685 kg	700 kg	160 mm
10 drawers	725 kg	780 kg	80 mm



OPERATING PRINCIPLE

Release the selected drawer, extend it fully for loading or robot access, then re-engage the lock before the production cycle. For Airlock, the pneumatic cylinder and I/O status must be included in the validated control logic.

Never work with more than one drawer extended on the same side. Observe pinch zones and keep the robot stopped during manual loading and setup.

Combined X-XL configuration - robot, feeder and controller on one platform

Integration principles from the combined installation manual, applied exclusively to ProFeeder X-XL.



INTEGRATED X-XL ARCHITECTURE

The combined X-XL architecture integrates the robot, robot-specific adapter plate, protected controller compartment, drawer system and selected locking method into one anchored production cell. It is not a separate order family: select the required X-XL variant and add the correct robot adapter plate.

Robot mount

0° or 45°

Controller space

600 x 280 x 450 mm

Adapter plate

Separate order item

Floor anchoring

Required

Teach pendant	Adjustable bracket
Cable routing	Protected internal path
Mechlock	Mechanical drawer release
Airlock	Max. 8 bar dry air + I/O
Industrial robots	Engineering validation required
Order basis	Selected X-XL variant

ROBOT INTERFACE ARCHITECTURE

01 Robot arm



02 Robot-specific adapter plate



03 0° / 45° robot mount



04 Anchored X-XL cell

The adapter plate must match the exact robot bolt pattern. Use the website configurator; if no standard plate fits, request a customized interface.

**Industrial-robot suitability is subject to payload, base moment, reach, mounting interface, anchoring and safeguarding verification.*

Configure ProFeeder X-XL around the process

Published accessories, robot-specific interfaces and engineered project options.

1

Wheels

For controlled relocation before the cell is positioned and secured.

2

Floor Dock

Defined parking or repeatable positioning for selected mobile layouts.

3

Safety scanner cover

Mechanical protection for a project-selected safety scanner.

4

Operator-side hinge door

Alternative access arrangement for loading, setup and service.

5

Custom tray / fixture

Part-specific pockets, nests, grids and clamping concepts.

6

Robot adapter plate

Mandatory robot-specific interface unless explicitly included in the quotation.

7

Industrial-robot integration

Engineered mounting and safeguarding for validated industrial robots.

8

Cable and controller adaptation

Project-specific routing, ventilation and access.

9

Custom safety concept

Project-specific guarding, interlocks and safety architecture.

ROBOT & CELL COMPATIBILITY

Area	Standard X-XL capability	Project verification
Cobots	Compatible with 99% of modern cobots	Select exact adapter plate
Industrial robots	Suitable for many industrial robots*	Validate mass, base moment and dynamics
Robot mounting	Integrated 0° or 45° position	Confirm reach and collision envelope
Controller	600 x 280 x 450 mm compartment	Confirm controller size and ventilation
Safeguarding	Scanner cover and access options available	Risk assessment defines final solution

*Industrial-robot suitability is subject to payload, base moment, reach, mounting interface, anchoring and safeguarding verification.

Install for stability. Validate the complete robot cell.

Installation must be performed by trained personnel and followed by a project-specific risk assessment.

1 Verify floor and layout

Confirm floor load, access, machine clearances, robot reach and drawer extension zones before positioning.

2 Level and anchor

Align the cell and secure all designated anchoring points with fasteners suitable for the floor and application.

3 Select adapter and robot angle

Order the exact adapter plate, mount the robot according to its manual and confirm the chosen 0° or 45° orientation.

4 Install controller and cables

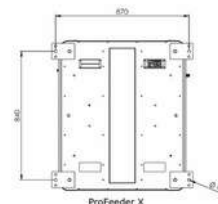
Place the controller in the protected compartment and route cables without squeezing, abrasion or collision risk.

5 Connect the locking system

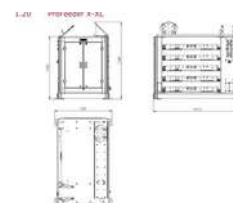
For Airlock, connect max. 8 bar dry air and the defined I/O. For Mechlock, validate the mechanical release procedure.

6 Validate the complete cell

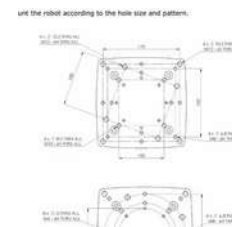
Verify safeguarding, stopping, restart prevention, risk reduction and conformity before production release.



FLOOR-ANCHORED X-XL CELL



X-XL DIMENSIONS



ROBOT MOUNTING PATTERN

ROUTINE CHECKS

Inspect anchors, drawer locks, slides, robot fasteners, adapter plate, cables, doors and options at suitable intervals.

INTEGRATOR RESPONSIBILITY

The installer and system integrator remain responsible for the final risk assessment, safeguarding, applicable conformity procedures and safe operation of the complete robot cell.

Ordering overview

Published standard variants for ProFeeder X-XL. Select the locking system and number of 90 kg drawers.

PROFEEDER X-XL STANDARD VARIANTS

Order no.	Configuration	Key data
PFX-2100-02	2 x 90 kg drawers - Mechlock	H: 1050 mm, W: 1420, L: 920, Wt: 535 kg, 2× 780×620 mm tray area, 2.5 mm deflection at 90 kg, Max part height 320 mm.
PFX-2101-02	2 x 90 kg drawers - Airlock	H: 1050 mm, W: 1420, L: 920, Wt: 550 kg, 2× 780×620 mm tray area, 2.5 mm deflection at 90 kg, Max part height 320 mm.
PFX-2100-05	5 x 90 kg drawers - Mechlock	H: 1050 mm, W: 1420, L: 920, Wt: 685 kg, 5× 780×620 mm tray area, 2.5 mm deflection at 90 kg, Max part height 160 mm.
PFX-2101-05	5 x 90 kg drawers - Airlock	H: 1050 mm, W: 1420, L: 920, Wt: 700 kg, 5× 780×620 mm tray area, 2.5 mm deflection at 90 kg, Max part height 160 mm.
PFX-2100-10	10 x 90 kg drawers - Mechlock	H: 1050 mm, W: 1420, L: 920, Wt: 725 kg, 10× 780×620 mm tray area, 2.5 mm deflection at 90 kg, Max part height 80 mm.
PFX-2101-10	10 x 90 kg drawers - Airlock	H: 1050 mm, W: 1420, L: 920, Wt: 780 kg, 10× 780×620 mm tray area, 2.5 mm deflection at 90 kg, Max part height 80 mm.

COMBINED X-XL CONFIGURATION

No separate standard order number: select the required PFX-21xx-xx variant and add the robot-specific adapter plate plus any project integration items.

Options / project items

Wheels | Floor Dock | Safety Scanner Cover | operator-side hinge door | custom tray / fixture | robot adapter plate | custom industrial-robot interface

IMPORTANT - ORDER THE ROBOT ADAPTER PLATE

Select and order the exact robot adapter plate in the EasyRobotics website configurator. Custom plates are available when no standard interface fits.

OPEN WEBSITE / CONFIGURATOR