ProFeeder S

Robust and cost-effective robot feeder for CNC machine tending

Three published configurations scale capacity from 3 to 9 trays on one standardised platform. High product mass, 100 kg per tray and mechanical locking support stable, repeatable parts handling with a controlled investment.

Compatible with 99% of modern cobots | **Many industrial robots*** | **3 / 5 / 9 trays**

! **Robot-specific adapter plate must be ordered separately in the online configurator.**

**Subject to engineering validation of the complete application.*

Robust by design. Economical to standardise.

A rigid, floor-anchored steel platform combines high product mass, mechanically locked trays, protected controller space and controlled cable routing. The shared architecture across all variants simplifies engineering, purchasing and future capacity planning.

SOLID STEEL PLATFORM

01 **320-410 kg**

product mass

02 **100 kg**

ratedloadper tray

03 **Mechanical**

magnetic tray locks

04 **Required**

floor anchoring

05 **0 or 45 deg**

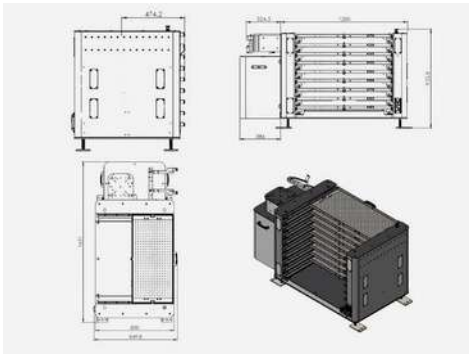
robot mounting angle

06 **600 x 300 x 500 mm**

controller compartment

Defined tray position

The mechanical magnetic locking concept helps keep each tray in a defined position for repeatable robot access. Published pull force: 15 N per tray.



PUBLISHED DRAWING - CONFIRM CURRENT PROJECT GEOMETRY

No compressed air is required in the published standard configurations - reducing utility complexity and supporting a cost-effective installation.

Robot-specific adapter plate must be ordered separately in the online configurator.

PFS-1000-03 | 3-tray configuration

Cost-effective entry configuration with maximum clearance

A robust and economical entry configuration for larger components, short series and applications where vertical part clearance is the priority.

PFS-1000-03 | **3 trays**

TECHNICAL DATA

Product size (L x W x H)	**1600 x 933 x 900 mm**
Product weight	**320 kg**
Number of trays	**3**
Rated load per tray	**100 kg**
Maximum workpiece height	**150 mm**
Work area per tray	**800 x 400 mm**
Example tray capacity	**36 square / 38 teardrop parts**
Robot mount	**0 or 45 deg**
Floor anchoring	**Required**
Air supply	**Not required**

APPLICATION VALUE

1. **150 mm maximum workpiece height**
2. **Economical starting point for automation**
3. **Ideal for larger parts and smaller batches**

COMMON PLATFORM Left- or right-side robot console | 0 or 45 deg mount | teach pendant bracket | controller compartment | floor anchoring | no compressed air

Robot-specific adapter plate must be ordered separately in the online configurator.

PFS-1000-05 | 5-tray configuration

Balanced capacity and investment for daily production

The balanced variant adds unattended capacity while retaining compact tray spacing, straight forward operator access and a controlled investment level.

PFS-1000-05 | **5 trays**

TECHNICAL DATA	
Product size (L x W x H)	**1600 x 933 x 900 mm**
Product weight	**360 kg**
Number of trays	**5**
Rated load per tray	**100 kg**
Maximum workpiece height	**70 mm**
Work area per tray	**800 x 400 mm**
Example tray capacity	**36 square / 38 teardrop parts**
Robot mount	**0 or 45 deg**
Floor anchoring	**Required**
Air supply	**Not required**

APPLICATION VALUE

1. **Five trays at 100 kg each**
2. **Capacity matched to daily demand**
3. **Balanced footprint and investment**

COMMON PLATFORM Left- or right-side robot console | 0 or 45 deg mount | teach pendant bracket | controller compartment | floor anchoring | no compressed air

Robot-specific adapter plate must be ordered separately in the online configurator.

PFS-1000-09 | 9-tray configuration

Maximum capacity from the standard platform

The high-capacity variant is designed for extended cycles, repeatable replenishment and greater production autonomy without changing the basic platform concept.

PFS-1000-09 | **9 trays**

TECHNICAL DATA	
Product size (L x W x H)	**1600 x 933 x 900 mm**
Product weight	**410 kg**
Number of trays	**9**
Rated load per tray	**100 kg**
Maximum workpiece height	**70 mm**
Work area per tray	**800 x 400 mm**
Example tray capacity	**36 square / 38 teardrop parts**
Robot mount	**0 or 45 deg**
Floor anchoring	**Required**
Air supply	**Not required**

APPLICATION VALUE

1. **Nine mechanically locked trays**
2. **More unattended capacity per installation**
3. **Maximum published standard capacity**

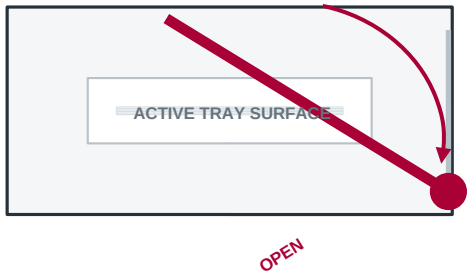
COMMON PLATFORM Left- or right-side robot console | 0 or 45 deg mount | teach pendant bracket | controller compartment | floor anchoring | no compressed air

Robot-specific adapter plate must be ordered separately in the online configurator.

Operator access and safeguarding concepts

Open the operator-side corner

The optional hinged access door swings clear of the work zone. With the robot stopped and the cell in a safe state, the operator gains unobstructed access to the complete active tray surface for loading, fixture changes, cleaning and service.



Closed, monitored and safety-rated

When all access points are closed and monitored by safety-rated switches, the signals can be processed by suitable safety relays or a safety controller. A correctly designed and validated cell can therefore operate without an external area scanner. The final solution depends on the complete risk assessment, required Performance Level, stopping time, restart prevention and local regulations.

SAFETY RELAY / SAFETY CONTROLLER

Scanner-free operation is application-specific and must be demonstrated by the validated safety concept.

PUBLISHED AND PROJECT OPTIONS

- **Wheels**
- **Floor Dock**
- **Safety scanner cover**
- **Hinged operator-side access door**
- **External controller compartment**
- **Custom trays and fixtures**

Illustrative guarding concept. Final design, risk assessment and validation remain the responsibility of the integrator.

One platform. Broad robot compatibility.

99%

Standard Cobot Compatibility

Designed to fit 99% of modern cobots through a robot-specific adapter interface.

Industrial robot integration

Many industrial robots can be integrated after engineering validation of robot mass, payload, base moment, reach, dynamics, mounting interface, controller location, anchoring and guarding.

No standard fit?
EasyRobotics can engineer a custom adapter plate or mounting solution.

ADAPTER PLATE WORKFLOW

01 **Select robot brand and model**

02 **Choose the 3-, 5- or 9-tray variant**

03 **Add the robot adapter plate in the configurator**

04 **Integrate and validate the complete cell**

DO NOT OMIT THE ADAPTER PLATE

The robot-specific adapter plate is not automatically included. Select and order it through the EasyRobotics online configurator or ensure it is explicitly listed in the quotation.

Product page and configurator entry

Ordering overview

Published standard order references and configuration items

Order no.	Configuration	Key published data
PFS-1000-03	**ProFeeder S - 3 trays**	1600 x 933 x 900 mm (L x W x H) | 320 kg | 3 x 100 kg | max part height 150 mm
PFS-1000-05	**ProFeeder S - 5 trays**	1600 x 933 x 900 mm (L x W x H) | 360 kg | 5 x 100 kg | max part height 70 mm
PFS-1000-09	**ProFeeder S - 9 trays**	1600 x 933 x 900 mm (L x W x H) | 410 kg | 9 x 100 kg | max part height 70 mm

OPTIONS AND CONFIGURATION ITEMS

Robot-specific adapter plate	Configurator item - order separately
Wheels / Floor Dock / scanner cover	Option - confirm in quotation
Hinged operator-side access door	Option - confirm in quotation
External controller compartment	Project option / quotation
Custom tray, fixture or robot mount	Engineering / quotation

REMEMBER THE ROBOT ADAPTER PLATE

Choose the correct plate for the robot brand and model in the online configurator. Where no standard plate is available, request a custom solution.

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Errors and omissions excepted. EasyRobotics reserves the right to change design, specifications, dimensions, weights, availability and order references without notice. The current quotation, approved project drawings and order confirmation take precedence.

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