ProFeeder

EasyRobotics ®

- we move your parts

ProFeeder Table

- Makes it fast and flexible to get started with robot automation.

Good for:

- Cutting
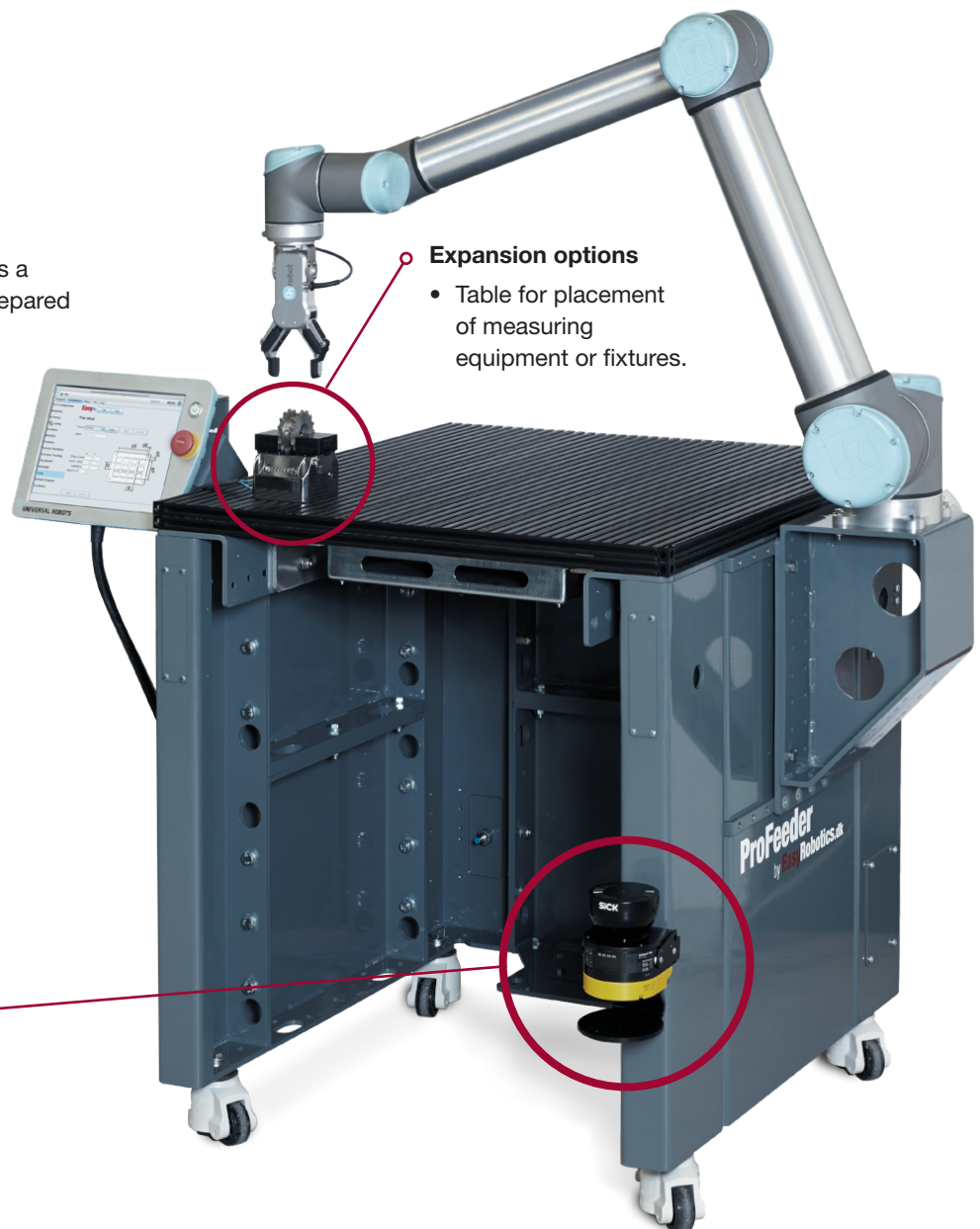- Finishing and Polishing
- Deburring
- Grinding
- Welding

ProFeeder from EasyRobotics is a compact modular robot cell, prepared for the installation of a robot.

The ProFeeder modular system can be expanded in 3 steps, from production automation of small series that can be upgraded, to full automation of large production series.

The expansion and investment is made in accordance with your production needs.

Expansion options

- Table for placement of measuring equipment or fixtures.

Improve Safety Mobility "Safety Laser"

- To improve safety, laser scanners can be added to all types of ProFeeders.

1 ProFeeder Table

Table for mounting of all types of clamping equipment for demonstration purpose.

2 ProFeeder Light

1 parts tray, the basic module is suitable for small series production.

3 ProFeeder

2 parts trays, 2 movers and automatic centring of parts tray. Suitable for small and medium series production.

4 ProFeeder Q

4 parts trays, 2 movers and 1 automated lift module. Suitable for series production in fully automated 4-shift operations.

ProFeeder Light

The ProFeeder Light robot cell consists of a basic module with 1 flexible manual removable parts tray designed for handling all types of parts.

ProFeeder is suitable for production of small series

- The robot cell can be used with most CNC machines.
- The robot arm can be moved around on all 3 sides.
- Can handle parts up to 10 kg.
- Can be changed to 45° angle axis.

EasyRobotics can be used in countless industries adding value to automation
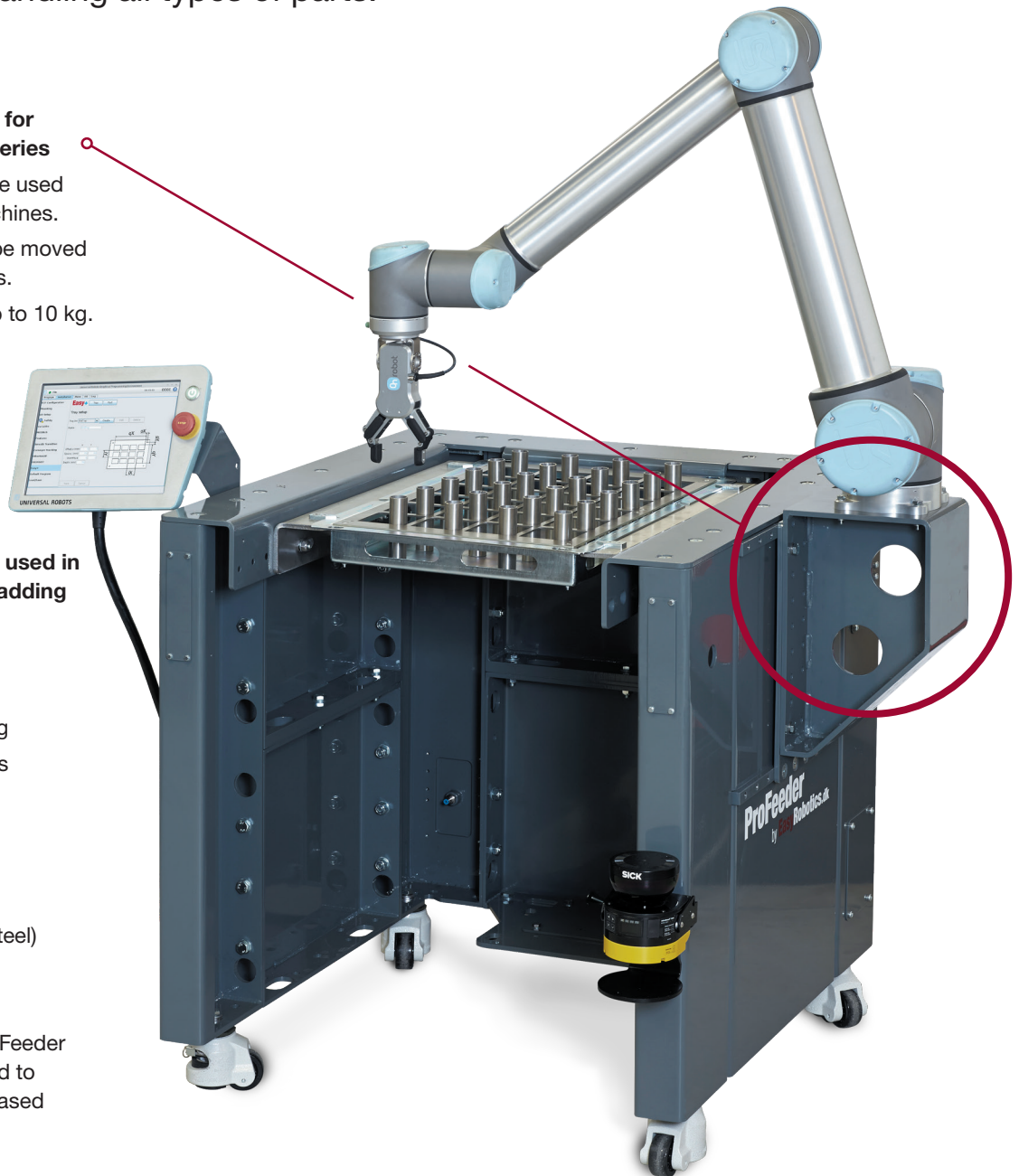
Industries

- Metal and Machining
- Plastic and Polymers
- Automotive
- Pharma
- Electronics
- Food Industry (optional stainless steel)

Staged investment

The basic module, ProFeeder Light, can be expanded to ProFeeder, when increased capacity is needed.

Small and quick series changes

- ProFeeder Light can be moved easily with a pallet truck or with optional heavy-duty wheels.
- The parts tray can be changed quickly.

FACTS

An extra pair of hands for smaller series production

The price of ProFeeder Light allows it to be used as an "extra pair of hands" to be deployed for smaller series or as the first step towards fully automated production.

ProFeeder

The ProFeeder robot cell consists of 1 basic module, 2 movers with 2 flexible part trays. The part trays are automatically centred, and are designed to accommodate all part types.

Increased production

- The solution makes it possible to introduce light out production; the operator is informed of downtime by a text message.

Good investment

- The typical return on investment is less than 1 year.
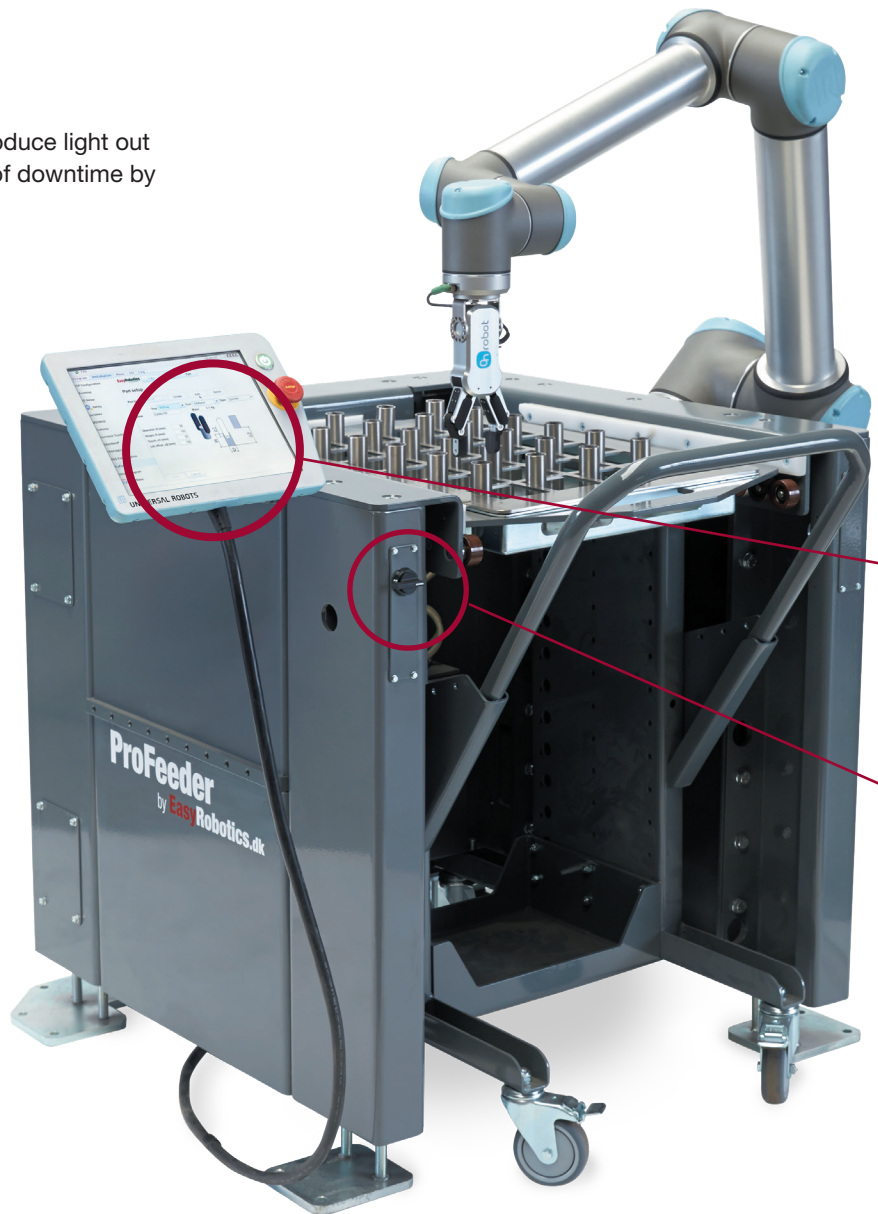
Quick series changes

- ProFeeder is easily moved with a pallet lifter.
- Quick change over time makes ProFeeder suitable for small and medium production series.

Increased efficiency

- Automated supply to the CNC machine ensures consistent high quality. The required man hours for operation can be reduced from 8 hours to less than 1 hour.

It can also be used for the following applications:

- Machine tending
- Polishing
- Welding
- Bin Picking
- Assembly
- Measurement

The parts trays are designed to accommodate all part types.
CNC machine tending. Quality inspection.

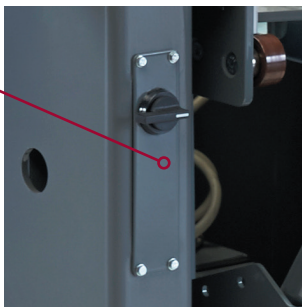# ProFeeder – safe operation and easy changes

The mover and automatic centring of parts

- When the mover is placed in the robot cell, the parts trays are automatically centred relative to the robot.
- The parts are transported around in the production by the mover, which is easy to push even when the parts trays are filled.
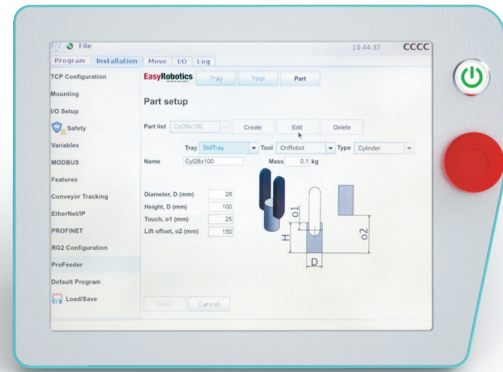

Expansion options

- The robot cell is supplied with a holder for the robot control panel.

Plug and produce

- Plug in the air hose.
- Turn the bottom, the parts tray is centered and ready for production.
- Avoid inaccuracy when measuring the parts top.

ProFeeder Easy+ Software for Universal Robots

- EASY+ is an entirely new palletising concept that dramatically reduces the setup-time for new parts. Ready for production in just a few minutes.
- With EASY+ you tell the robot WHAT you want it to do. Our software figures out HOW to do it.
- EASY+ gives customers running 'High Mix / Low Volume' a remarkable advantage.
- Try it for free with your first ProFeeder.

Features and benefits

- Very rapid configuration of new parts.
- No programming required for new parts.
- EASY+ is available for all Universal Robots (UR3, UR5, UR10).
- Complete video tutorial.

How does it work?

- EASY+ is a UR+ software plug-in that is integrated with the standard robot software.
- With EASY+ you specify the robot tool, the parts tray and the shape of the part. EASY+ then calculates all the right moves for the robot.
- Tools, trays and parts are all stored in a built-in database for quick retrieval and reuse.
- EASY+ is machine tending made EASY.

Calibration tool

- Easy+ comes with an innovative calibration tool that makes configuration fast and easy.
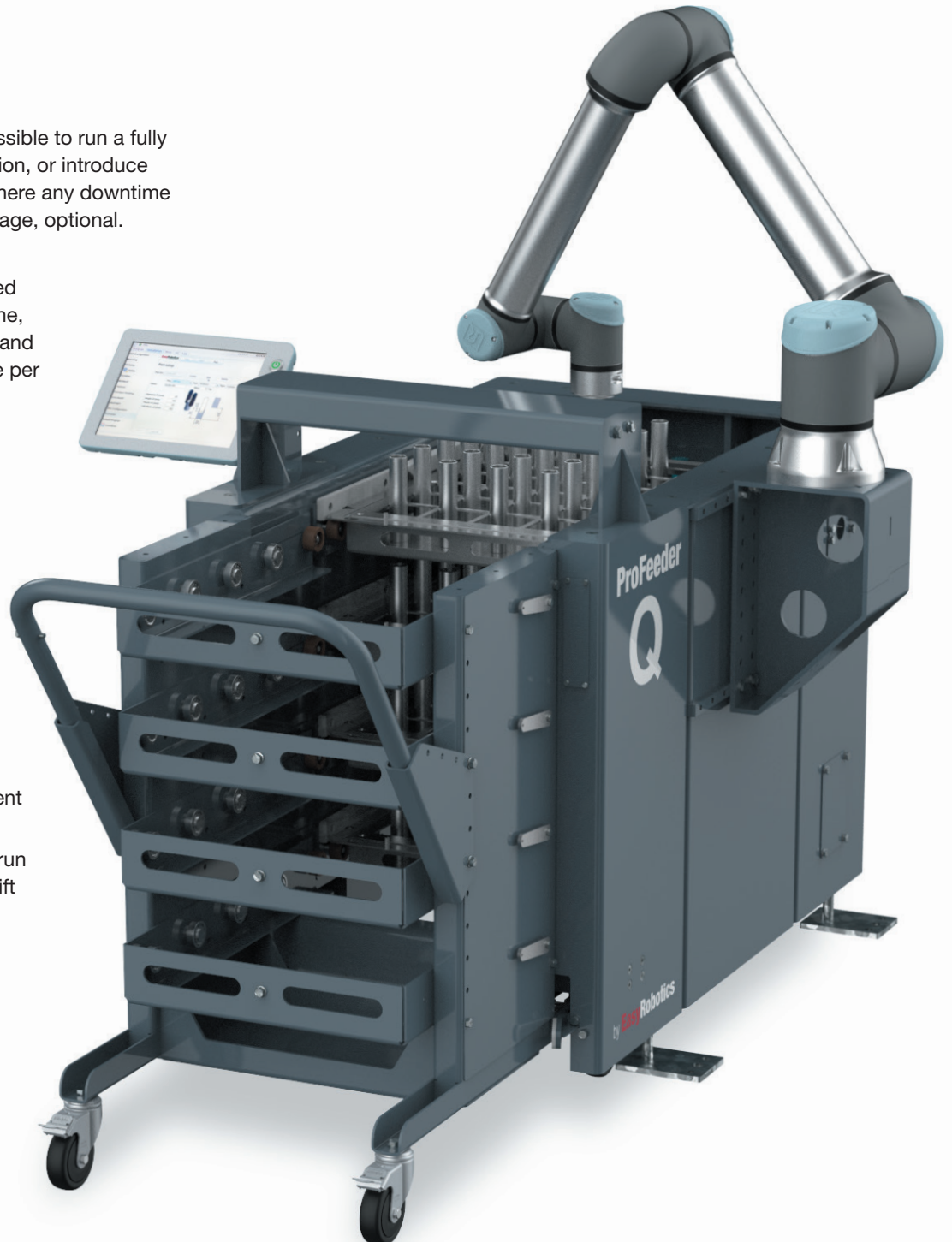
ProFeeder Q

ProFeeder Q is expanded with a lift module that automatically switches the trays with the parts to be processed.
The capacity is increased from 1 to 4 parts trays per mover.

The solution makes it possible to run a fully automated 4-shift operation, or introduce unmanned night shifts where any downtime is notified by a text message, optional.

The manual input is limited to supervising the machine, pre-filling the parts trays and replacing the mover once per 4-shift operation.

ProFeeder Q

- The return on investment is less than a year.
- Provides the ability to run a fully automated 4-shift operation.
- Suitable for larger production series.

	① ProFeeder Table	**②** ProFeeder Light	**③** ProFeeder	**④** ProFeeder Q
Return of investment*	6 – 8 months	6 – 8 months	Less than 1 year	1.5 – 2 years
Operation of parts trays	Manual change of parts trays	Manual change of parts trays	Changing the mover	Fully automated
Mobility	Option heavy-duty wheels	Option heavy-duty wheels	Easily moveable	Stationary
Series size	Small series	Small series	Small and medium series	Larger series
Number of parts trays	Table	1	2	2 x 4
Movers	-	-	2	2
Production	Test / Demo	An "extra hand"	2-shift operation	Fully automated 4-shift operation
How to order	PFT 1000	PFL 1001	PF 1002	PFQ 1003
L x W x H	900 x 860 x 925 mm	900 x 860 x 925 mm	900 x 860 x 925 mm	1885 x 742 x 968 mm
Material	Powder coated steel**	Powder coated steel**	Powder coated steel**	Powder coated steel**
TP2001 Threaded hole plate	X			
GD-Wheels Wheels for ProFeeder	X	X	X	
ST-2002 Side-Table	X	X	X	X
CK2008 Cable-Kit	X	X	X	X
URC2007 Connector Socket (Harting)	X	X	X	X
ER+2006 Template Software ER+ for UniversalRobots	(X)	X	X	
TH2004 Customized parts tray		X	X	X
M2003 Mover with tray			X	
M2004 Mover with 4 trays				X
PP1001 Part plate	X			

*At 2-shift operation
**Optional stainless steel
Patent Pending

PF

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Distributor

Danish manufacturer and supplier of robotic cells for all types of automation.

EasyRobotics®

- we move your parts