



EasyRobotics®
- we move your parts

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

Per Lachenmeier, Anders Kjempff and Henrik Vesterlund Sørensen are the people behind EasyRobotics. Together they have more than 50 years of experience in designing, developing and producing advanced machines for industrial applications.

In 2015 the idea to build the ProFeeder was born - a mobile and compact automated robot cell that can be mounted on a robot, enabling parts to be fed in and out of fully automatic CNC lathes and milling machines.



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ProFeeder Table

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

ProFeeder Table is a compact modular robot cell prepared for the installation of any 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.

Good for:

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



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.

As the ProFeeder Table, the ProFeeder Light can also be expanded from production automation of small series that can be upgraded to full automation of large production series.

Can be used for:

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

Industries:

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



Can handle parts up to

12 kg

Can be changed to angle axis.

45°

The robot arm can be moved around on all

3 sides

ProFeeder Flex

For easy and flexible maneuvering around the production line.

The new ProFeeder Flex is part of the PF family, and it comes with Heavy Duty wheels with integrated legs.

The ProFeeder Flex comes in three models:

- FlexBase without tables
- FlexOne with one table
- FlexThree with three tables

Pedestal placed centrally with in built cable guide.

Flexible mounting for the teach pendant, and free compartment for the controller.



Industries:

- Assembly
- Cutting
- Deburring
- Grinding
- Welding
- Food Industry
- Machine - Tending
- Finishing and Polishing
- Electronics Industry
- Plastics Industry
- Pharmaceutical Industry

Easy Door

EasyDoor is built upon proven components from Siemens.

It is a flexible automatic door opener for a variety of applications in the CNC machining industry. Setup is easily performed during installation giving ramp up and down settings to the motor automatically.

The solution features integration to a high-level controller through simple connection, and it supports Profinet, Profibus and digital input/output.



Product advantages:



Easy to use



Safety



Cost effective



Easy installation

EasyPedestal

Product Advantages:

COMPACT – save space at your factory floor by combining the EasyPedestal + the ProFeeder Compact – full solution at your hands!

STABILITY – our machines are created from solid metal, where durability is crucial when working with machine tools –tending applications.

STATE-OF -THE - ART DESIGN – our machines are carefully designed making sure flexibility it is important. In most cases, considering infrastructure can be a headache to manufactures, our machines are made to “Fit” any working station.

Benefits:

- **Cable guidance feature**
- **Mount controller inside the EasyPedestal**
- **Easy and flexible feeding of CNC machines**
- **It's compatible with cobot from Doosan**
- **Supports different types of machines and it can be adapted to different workstations**



ProFeeder

Safe operation and easy changes.

The ProFeeder robotic 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 and different weights.

Product advantages:

Increased production

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

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.

Quick series changes

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

Good investment

The typical return on investment is less than 1 year.



Robot cell

The robot cell is the basic module of ProFeeder and provides a framework for the robot's location and it contains both the processed and unprocessed parts, either as a holder for the parts tray (ProFeeder Light) or as a station for the mover (ProFeeder and ProFeeder Multi).

The compact and mobile robot cell design offers maximum flexibility in the production. The robot can due to the design be placed on all three sides. The compact design ensures easy access to the production machines.

The robot cell is supplied with a range of solutions for control panels, tables and fixtures, which makes it suitable for the construction of complete and fully automated assembly cells.

Parts trays

The parts trays have interchangeable perforated plates, they can accommodate all item types and can be replaced by thin plate feeding for edge bending.

The parts trays are easy to replace on both the basic module of ProFeeder Light and the mover.

Mover

The mover is used to transport the parts trays to and from the ProFeeder, it is easy to lead the mover into the robot cell even when all four parts trays are full.

The parts trays are automatically centred in the robot cell.

When upgrading from ProFeeder to ProFeeder Multi the mover is upgraded with an elevation and displacement module.

ProFeeder Compact

Compact Footprint at your factory floor.

Product Advantages:

- FAST AND EASY PRODUCTION**
ProFeeder Compact, a complete console machine up to 6 TRAYS for flexibility and speed on production. The feeding trays can be easily unlocked by the operator.
- 2 LOCKING SYSTEMS AVAILABLE**
Mechanical or Air locking systems. Airlocks run in Modbus.

Benefits:

- **Consist of 6 trays**
- **Airlock system**
- **Optional docking station**
- **Easily movable around production**
- **Optional mounted with GD wheels for easy transport**
- **Optional ER pedestal for Robot Arm and controller compartment**



ProFeeder X

Higher production capacity.

Product Advantages:

- LARGE PRODUCTION** – delivered with 2,5 or 10 trays options ideally to lower cycle time resulting in fast production. Robot arms can be mounted in different angles allowing its ultimate flexibility.
- 2 LOCKING SYSTEMS AVAILABLE** – Mechanical or Air locking systems. Airlocks run in Modbus.
- MOVE AROUND PRODUCTION** – want to scale production and reduce cycle time at your factory floor? The ProFeeder X is a robust machine designed to handle multiple parts in several trays.

Benefits:

- **Consist of 10 trays**
- **Designed for large volume production**
- **Bracket for robot teach pendant**
- **400 x 600 mm KLT boxes**
- **Scalable tray system**
- **Very compact footprint dimensions**



EasyPalletizer

The EasyPalletizer is a platform designed with the purpose of making palletizing easy and mobile inside a factory.

The EasyPalletizer comes with a Europallet sized consoles consisting of different compartments for: robot controller, cables, hosts and lifting module from SKF or any other type of pedestals. The EasyPalletizer is designed to be a robust machine with 300 KG of total weight without robot and lifter mounted. Each side of the EasyPalletizer consists of a docking system for pallets that measures the placement of the pallets.

Benefits:

- **Fewer associated worker injuries**
- **Flexibility for manufacturing**
- **Safe movement of boxes**
- **Operation speed**
- **Capex optimized**
- **Load stability**
- **Precision**



Product advantages:

Ethernet RJ45 connector

Ensuring monitoring or access via third part products from outside of the palletizer. The palletizer come with a small plugin for an ethernet cable.

Multipurpose lamps and ethernet plug

At the front of the EasyPalletizer are two I/O connectable multipurpose lamps (with multiple configurable colors).

Pallet detection

The EasyPalletizer consists of four detection pins on each pallet side, which ensure correct docking of pallet before starting palletizing. By the functionality loading stability is ensured as well as a safe operation handling the components.

Push buttons

Above each lamp bulk located push button for each side operation, where the installation can be ensuring “reset” function or activate function of the pallet.