

# EASYPROD

MACHINING CENTERS AUTOMATION



ENGINEERING DATA

INNOVATION IS OUR JOB





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INNOVATION IS OUR JOB



## Our Know-How

Historically established in the clamping and quick-change sector, we have continued our evolution by developing industrial processes for the automation of these assemblies. Our part loading and unloading solutions are suitable for turning and milling centres.



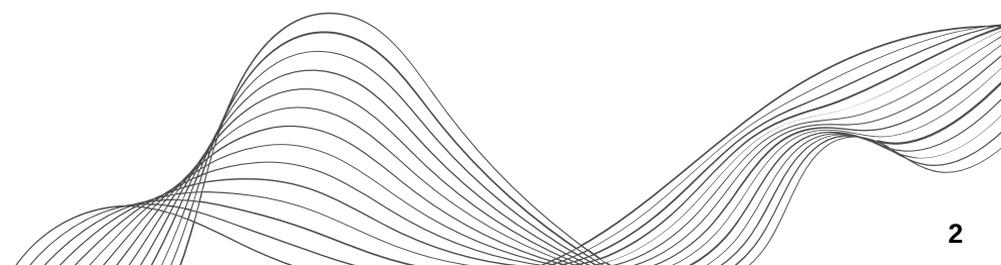
## Our Mission

Meet your needs with innovative automation and quick-change products. With these developments, you will quickly increase your productivity and flexibility.



## Our Vision

Innovation being part of ENGINEERING DATA's DNA, our current and future solutions will aim at meeting the next challenges of the industry such as Industry 4.0.



# AUTOMATION ADVANTAGES



Increase in the occupancy rate of the machining centres.



Increased competitiveness.



Stock optimisation.



Market share gains.



Speed in launching a production.



Easy to use, intuitive software.

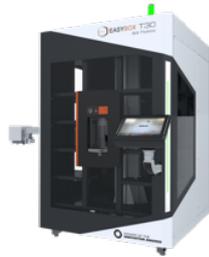


ROI between 12 and 18 months.\*



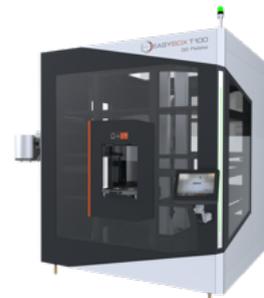
## EASYBOX T 30-42 P.6

► Compact version with a capacity of 42 pallets



## EASYBOX T 30-64 P.8

► Compact version with a capacity of 64 pallets



## EASYBOX T 100-32 P.10

► Compact version with a capacity of 32 pallets



## EASYPROD MT100 P.16

► Modular drawer shop



## EASYPROD PLUS P.18

► Stocks a large quantity of parts and tools



## EASYPROD X25C P.20

► Handles parts in a small space.



## RX P.22

► Hybrid cell for pallet and slug handling with a 6-axis robot that can feed 1 to 2 machines.



LX

P.23

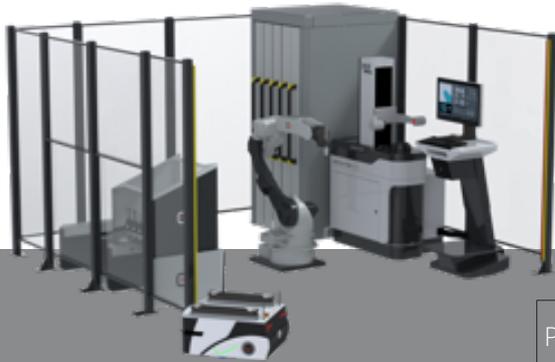
► Hybrid cell for pallet and slug handling with a 6-axis robot that can feed up to 6 machines.



Expert in machining clamping and SMED techniques (rapid tool change) for more than 30 years, **ENGINEERING DATA** has always been resolutely turned towards **innovation**.

It is in this perspective that the company has developed its activity on the robotics market by developing for nearly 10 years different ranges of robots dedicated to **milling as well as turning**.

The robots are intended for any company carrying out small and medium-sized production runs that wishes to make maximum use of the **available machine time**: machining in hidden time, in the evening, at night and at weekends.



P.36

## CUTTING TOOL MANAGEMENT STATION

► Cooperation between **ENGINEERING DATA** and **ZOLLER** for the adjustment, management and transport of cutting tools

**ACCESSORIES** P.30



## **EASYBOX T30-42**

The advantage of the T30 is its compactness: just 2 m<sup>2</sup> on the floor and a storage capacity of 42 pallets. EASYBOX T30 consists of a 3-axis robot, which is integrated into the pallet magazine and feeds the machining centres with 30 kg pallets. Its intuitive interface makes it easy to use.







Lighted column

Machine feeder arm

EASYBOX T30  
64 Pallets

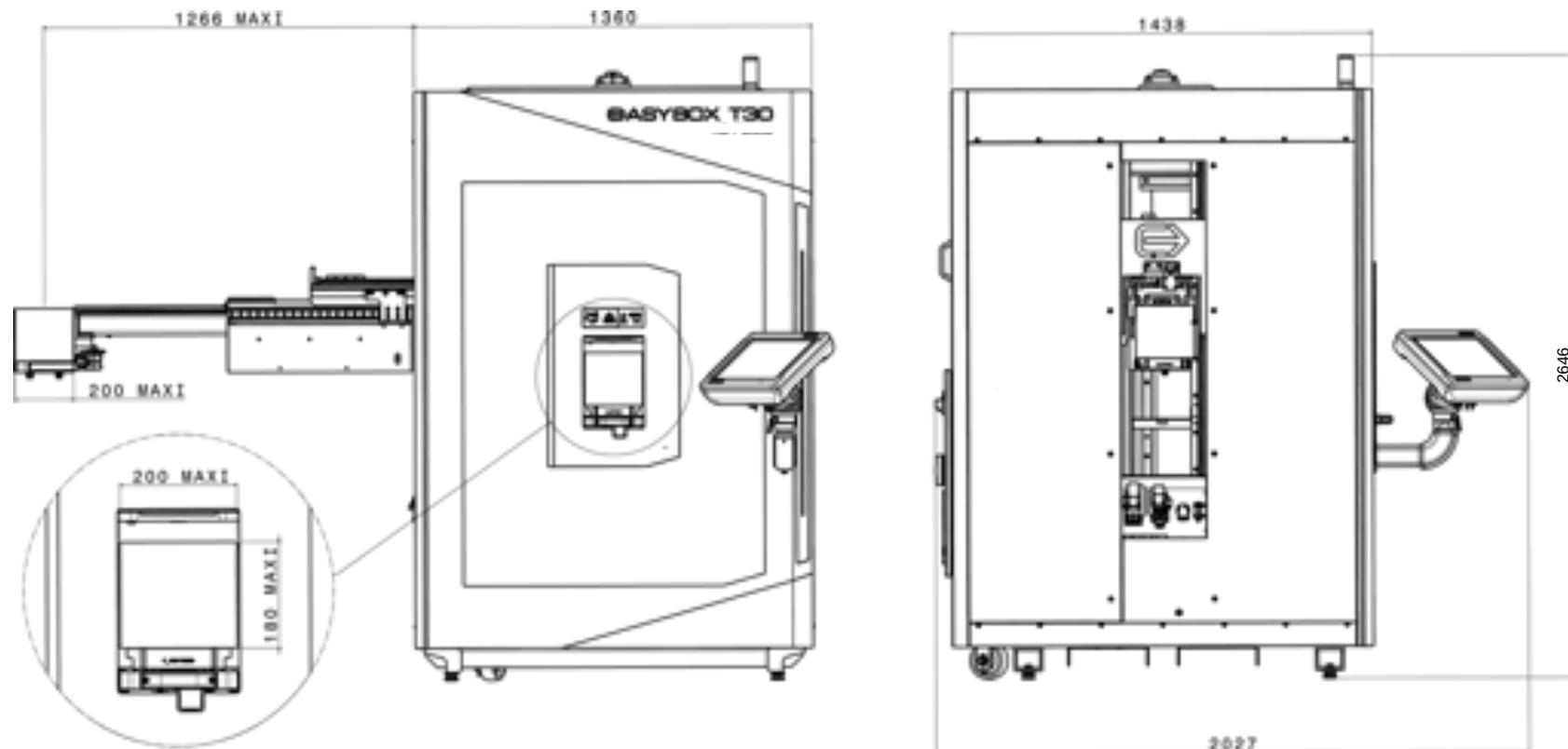
Intuitive interface

## EASYBOX T30-64

The advantage of the T30 is its compactness: just 2 m<sup>2</sup> on the floor and a storage capacity of 64 pallets. EASYBOX T30 consists of a 3-axis robot, which is integrated into the pallet magazine and feeds the machining centres with 30 kg pallets. Its intuitive interface makes it easy to use.

WINNER OF THE  
INDUSTRIAL AWARD

# EASYBOX T30-64 IMPLEMENTATION



**CHARACTERISTICS OF THE WORKPIECES :**  
**MAX. 200 X 200 X 180 MM**



Lighted column

Machine feeder arm

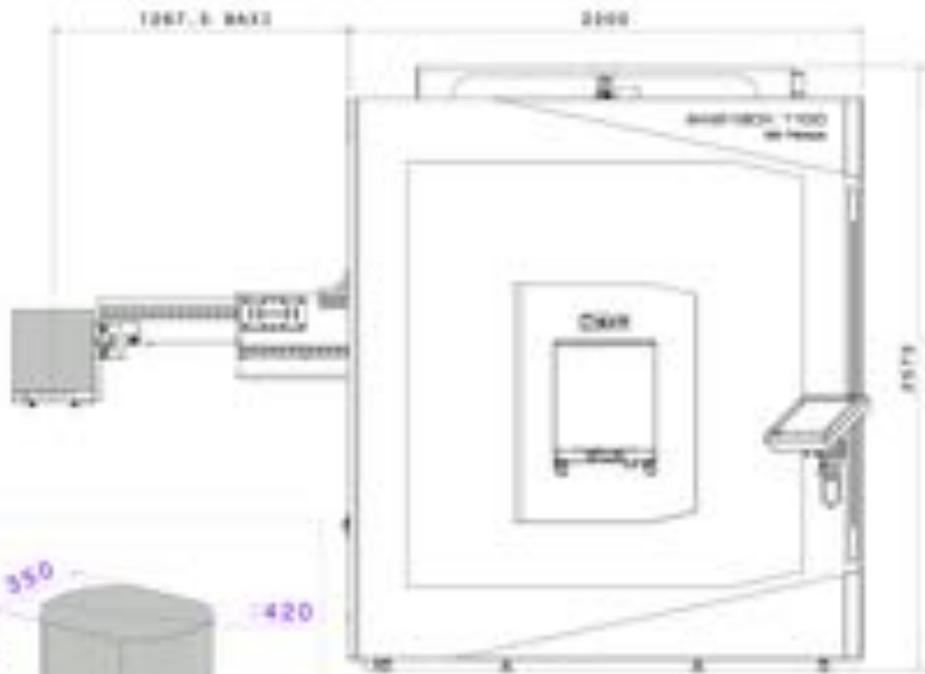
EASYBOX T100  
32 Pallets

Intuitive interface

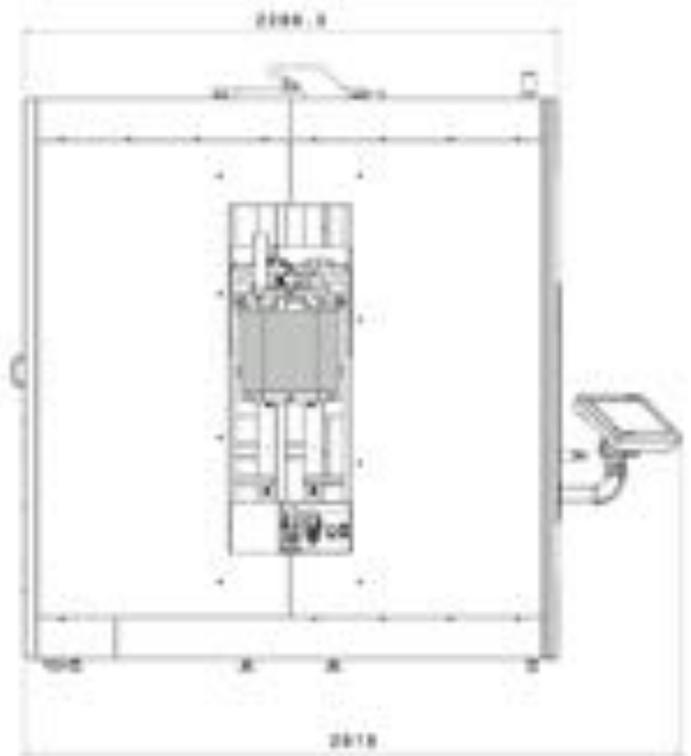
## EASYBOX T100-32

The advantage of the T100 is its compactness: only 5 m<sup>2</sup> on the floor and has a storage capacity of 32 pallets. EASYBOX T100 consists of a 3-axis robot, which is integrated into the pallet magazine and feeds the machining centres with 100 kg pallets. Its intuitive interface makes it easy to use.

# EASYBOX T100 → IMPLEMENTATION



MAXI PALLET VOLUME



CHARACTERISTICS OF THE WORKPIECES :  
MAX. Ø 420 X 350





Lighted column

Machine feeder arm

## EASYBOX T30 TWIN

The advantage of the T30TWIN is its compactness: only 2 m<sup>2</sup> on the floor and has a storage capacity of 100 pallets.

EASYBOX T30TWIN consists of a 3-axis robot, which is integrated into the pallet magazine and feeds the machining centres with 100 kg pallets.



# RANGE EASYBOX TECHNICAL FEATURES



**T 30-42**

**T 30-64**

**T 30 TWIN**

**T 100**

PAYLOAD CAPACITY	30 KG	30 KG	30 KG	100 KG
PALLETS CAPACITY	42 PALLETS	64 PALLETS	100 PALLETS	32 PALLETS
WORKPIECES	200 X 200 180 MM	200 X 200 X 180 MM	Ø 100 X 300 MM	Ø 420 X 350 MM
DIMENSION	1 360 X 1 453 MM	1 360 X 1 453 MM	1 360 X 1 453 MM	2 200 X 2 296 MM

# RANGE EASYBOX T30 ➔ PALLETS AND UPPER TABLES

**Bare pallets or clamped pallets** are available to complement the range.

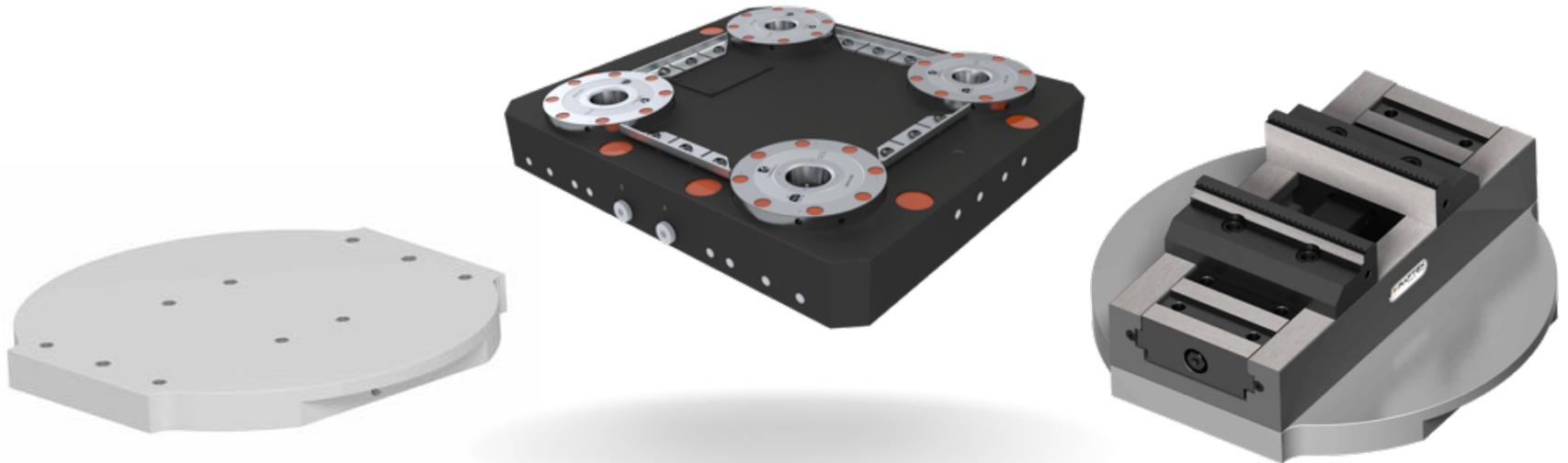
We equip your machining centre with an **upper table** equipped with zero point systems for repositioning the tooling to within the tooling to less than of  $5\mu\text{m}$ .



# RANGE EASYBOX T100 ➔ PALLETS AND UPPER TABLES

**Bare pallets or clamped pallets** are available to complement the range.

We equip your machining centre with an upper table equipped with zero point systems for repositioning the tooling to within the tooling to less than of  $5\mu\text{m}$ .

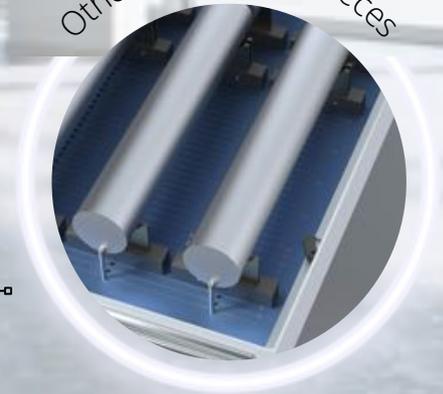


# EASYPROD MT100

**COMPACTNESS**  
**SIMPLICITY**  
**QUICKNESS**

Parts feeding

Other kind of workpieces



# MT100 → IMPLEMENTATION

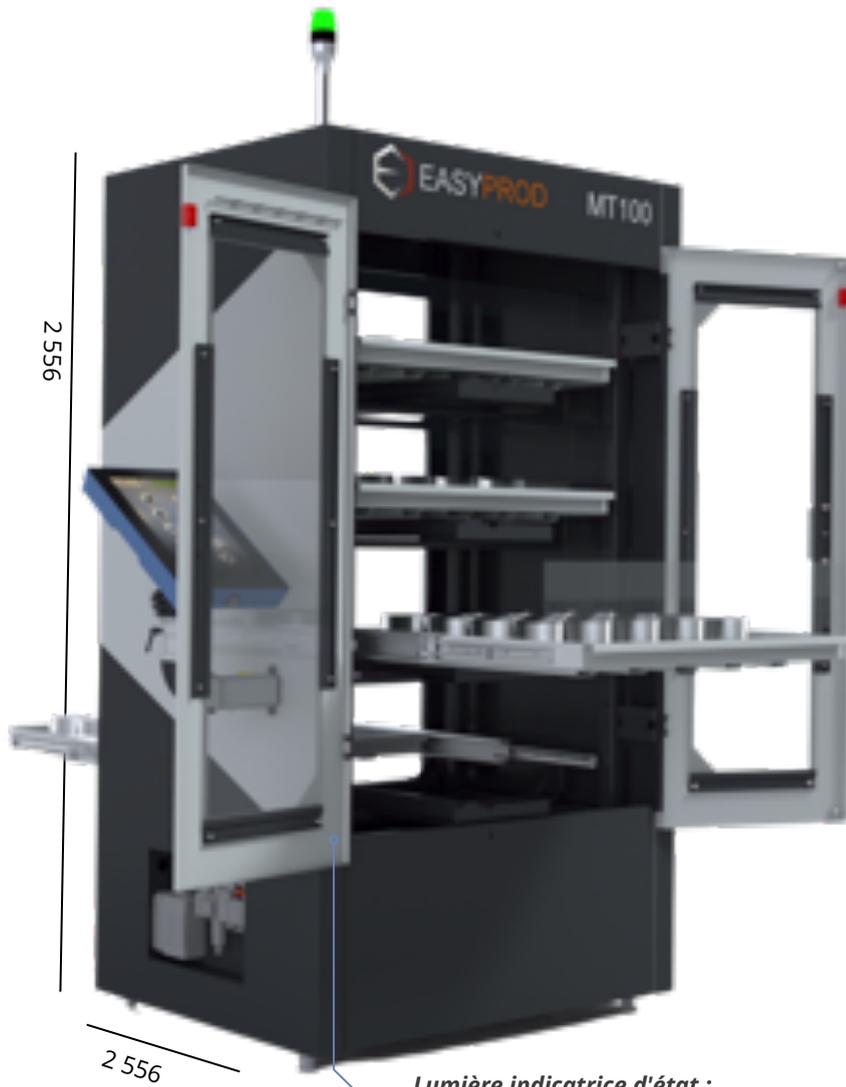
HANDLES PARTS LOADED ON DRAWERS



Compact drawer magazine allowing you to considerably increase the autonomy of your production.



Up to 5 modular drawers. Several part numbers produced.



**Lumière indicatrice d'état :**

- Raw parts ■
- Machined parts ■
- In the process of machining ■
- Drawer defects ■

# EASYPROD PLUS

*Intuitive interface*



# EASYPROD PLUS IMPLEMENTATION

STORES A LARGE QUANTITY OF PARTS AND TOOLS



Maximum optimisation of your productivity



Automation of small, medium and large series

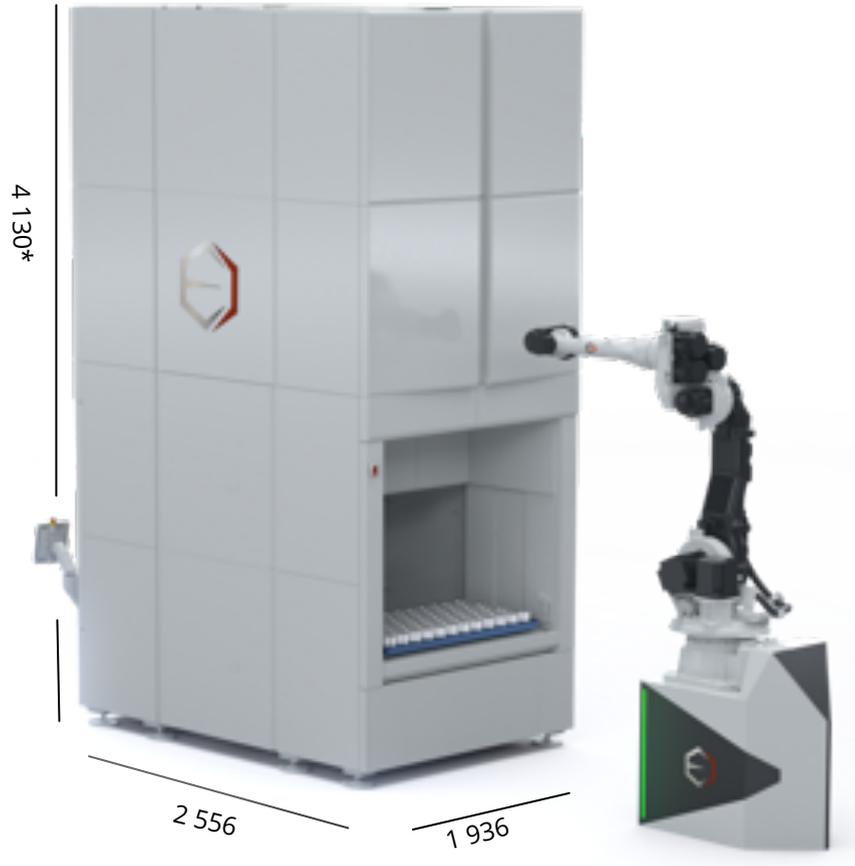


Reduction of manual processes



Immediate increase of your storage capacity

**COMPACTNESS**  
**SIMPLICITY**  
**STORAGE<sup>+</sup>**



\*Adjustable height up to 8m

# EASYPROD X25C

Lighted column

Gripper storage

Safety wall

interchangeable grids

Interface intuitive

**COMPACTNESS**  
**SIMPLICITY**  
**QUICKNESS**

# EASYPROD IMPLEMENTATION

HANDLES PARTS LOADED ON INTERCHANGEABLE GRIDS



Quick production setting, no robotic knowledge required.



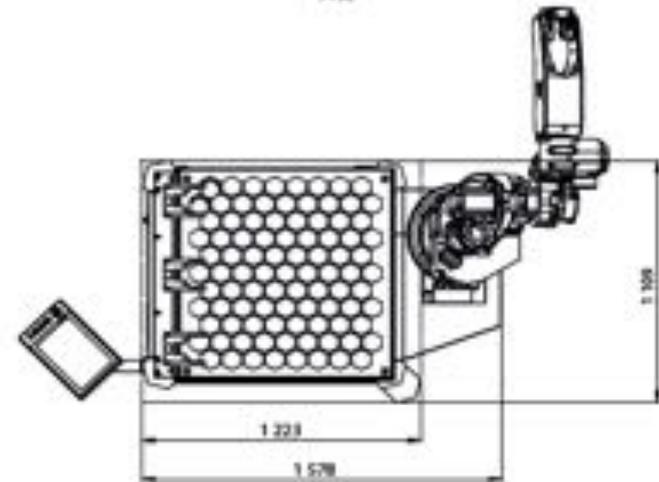
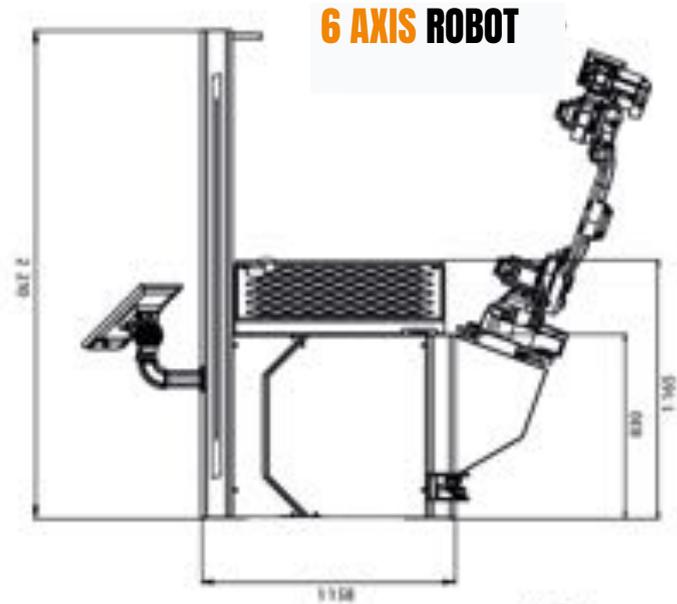
Equipped with single or double grippers. Optional automatic clamp change.



Modular installation, customizable application.



Operating through an intuitive and ergonomic interface.



**ULTRA COMPACT AUTOMATION**

# RX HYBRID CELL

Milling / Turning, pallet handling or raw workpieces with fix robot.



- ① Loading station
- ② Interface console
- ③ 6-axis Robot
- ④ Pallets Storage

# LX HYBRID CELL

Milling / turning management of pallets and/or slugs with rail-mounted robot.



- ① 6 axis robot from 88 kg to 280 kg
- ② Loading station
- ③ Pallets storage
- ④ Drawer shop for slugs
- ⑤ Multiaxis turning centre
- ⑥ 5 axis Milling centre
- ⑦ Tridimensional control

# LINEAR ROBOTS



**LX88**

**LX225**



**LX88    LX225    LX280**

**PAYLOAD CAPACITY**

**88 KG**

**225 KG**

**280 KG**

**LINEAR CURVE**

**DE 4 À 30 M**

**LX280**

# MAGASINS

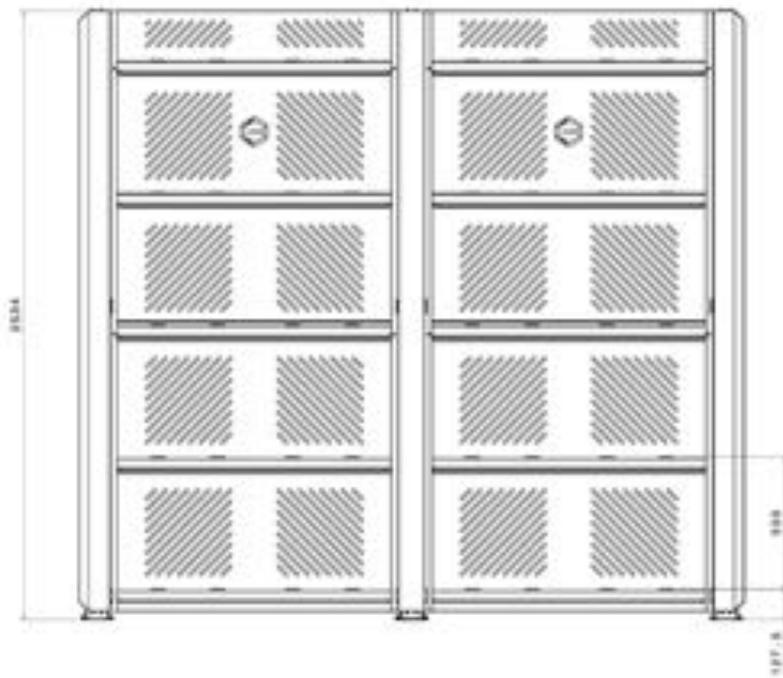
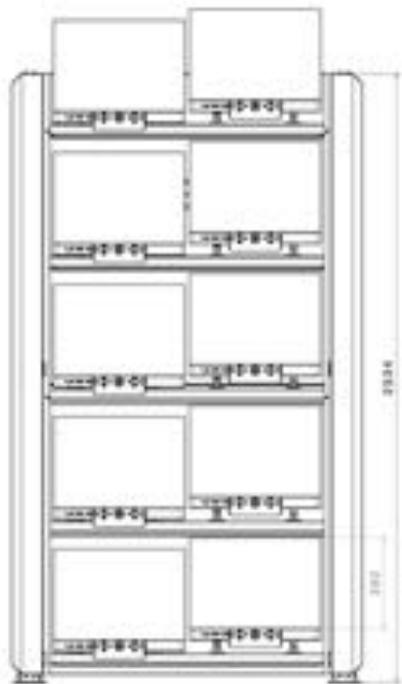


The magazines are provided as part of an EASYBOX RX and LX implementation according to the customer's needs.

The magazines are modular and the number of trays can be varied. **As standard**, a magazine consists of **4 to 5 trays**, which allows the storage of **10 to 20 pallets** (depending on the size).

As an option, oil trays can be added to the magazine to collect cutting oils and residual chips.

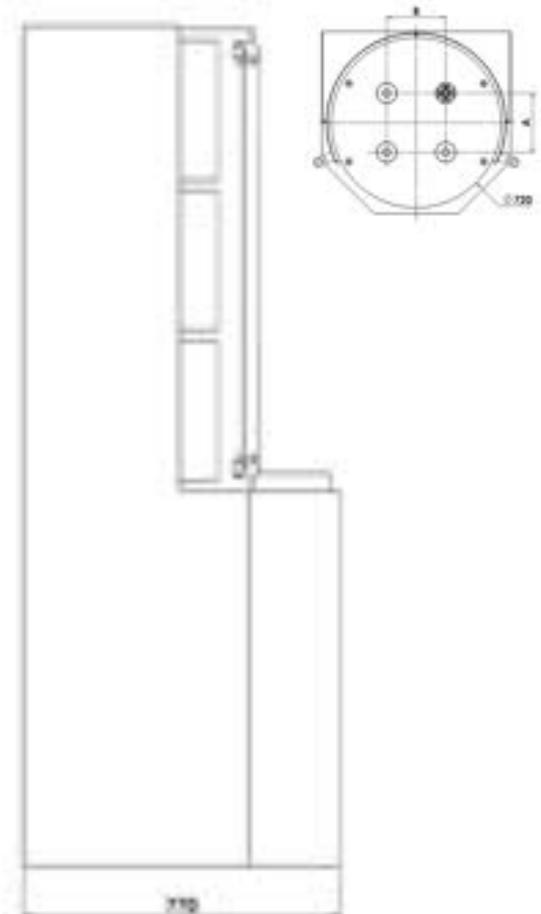
# MAGASINS IMPLEMENTATION



# LOADING STATION IMPLEMENTATION

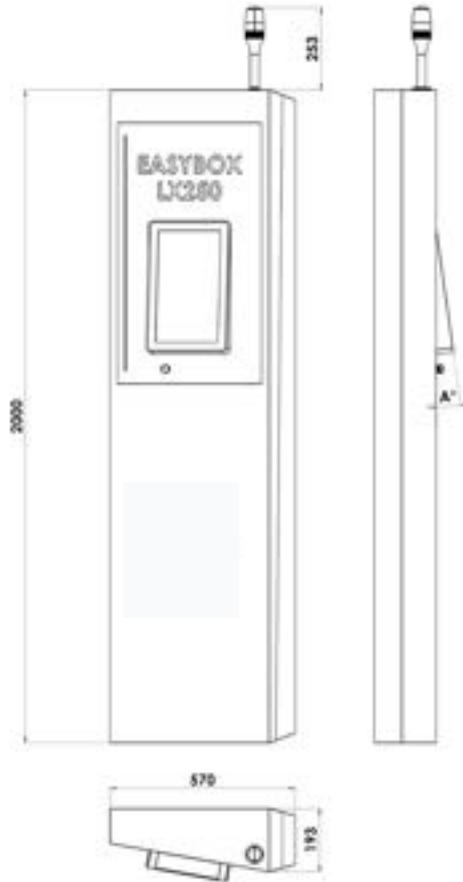
The centre-to-centre distance of the Easylock zero-point systems on the loading station varies to suit the size of your pallets.

A	B	dimension palette
200	200	200 x 300
200	200	200 x 400
200	200	300 x 300
200	200	400 x 400
200	200	200 x 400
200	200	200 x 600
200	200	400 x 400
200	200	600 x 600



# ERGONOMIC INTERFACE

Our EASYPROD robots are controlled by an integrated touch screen.



Our EASYPROD robots are controlled by an integrated touch screen.

**The handling is simple and intuitive :**

- ▶ Robot management and allocation of workpiece series.
- ▶ Priority management according to production needs.
- ▶ Immediate restart in case of emergency stop: the robot recognises its position and restarts without human intervention.
- ▶ Production statistics accessible on screen.
- ▶ Possibility to identify each part reference with a product image to facilitate management by the operator.
- ▶ Information on all robot elements by touch screen selection.

**For example :** know the **autonomy** of the parts to be machined by simply clicking on the photo of the magazines.



**SIMPLICITY**



**INTUITIVENESS**



**ERGONOMICS**

## RANGE LX → GRIPPERS

► Our slug grippers are interchangeable. The double gripper saves a lot of time with a load capacity of 88, 225 or 280 kg depending on the model.

OPTION CHANGEMENT  
AUTOMATIQUE DES PINCES



## → PINCES LOPINS

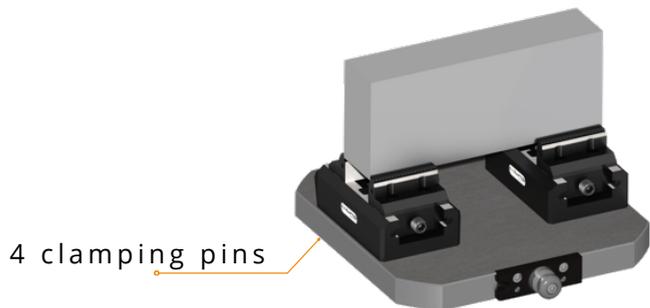
## → PALLETS GRIPPERS EL85



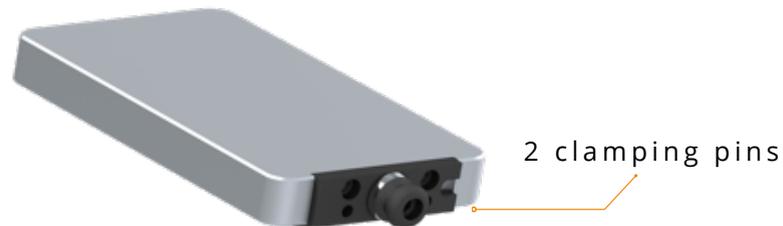
► This gripper is able to handle pallets up to 280 kg.

# RANGE LX ➔ PALLETS STANDARDS

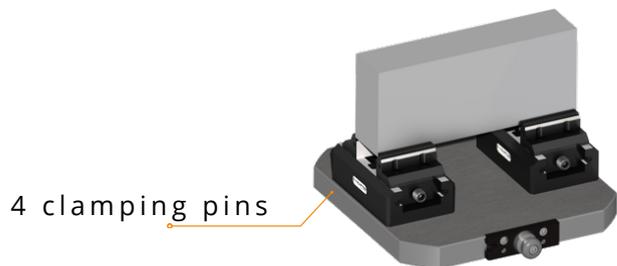
## ➔ PALLETS 500 X 500



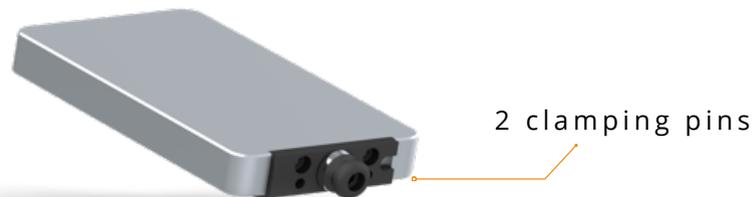
## ➔ PALLETS 200 X 500



## ➔ PALLETS 400 X 400



## ➔ PALLETS 200 X 400



# RANGE LX

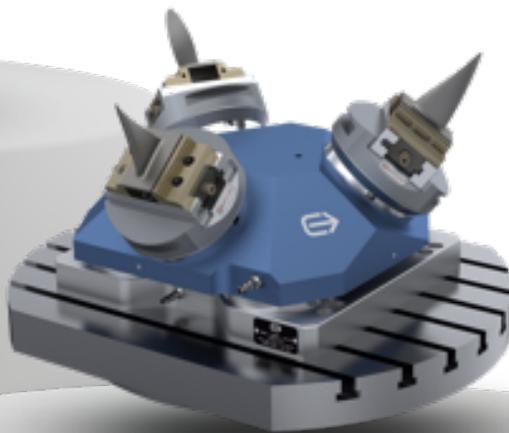
## ➔ SPECIFIC PALLETS

▶ please contact us.



## ➔ EASYFIX RANGE

▶ Several sizes available, please contact us.



# ACCESSORIES → VICES



▶ CM50 R80 T



▶ CM100 R250



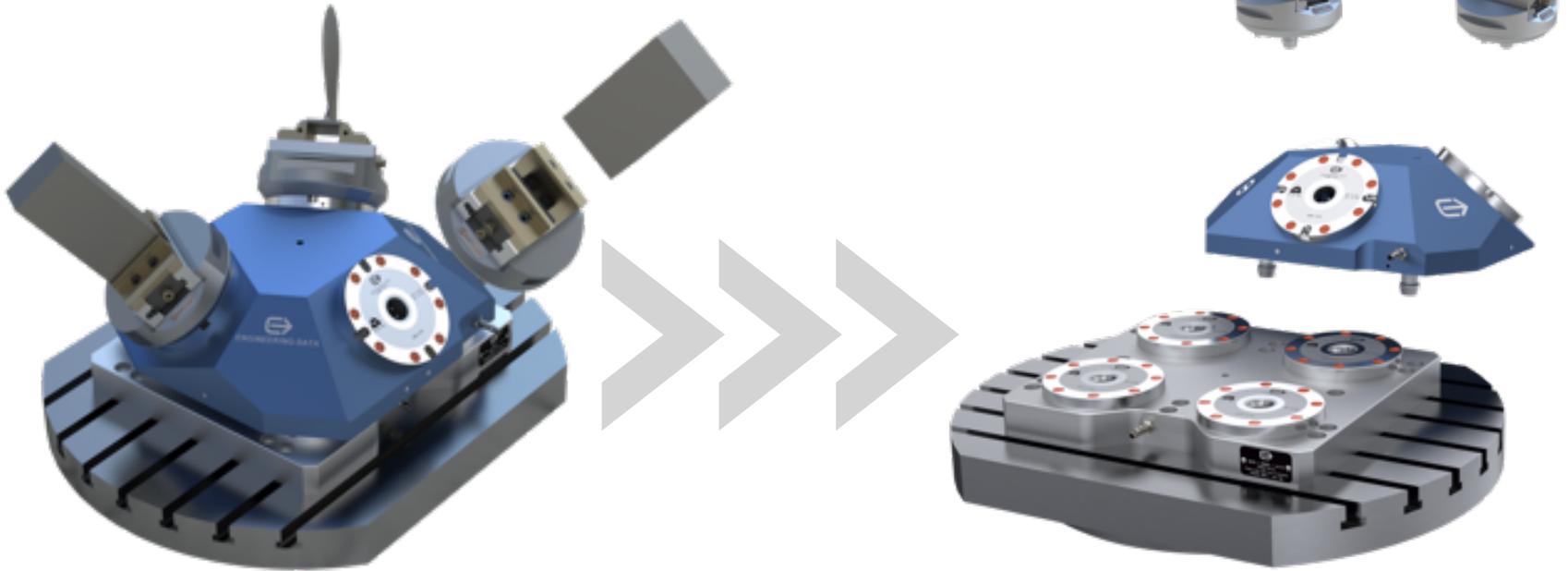
▶ CM80 R130 M14



▶ CM125 R300

# RANGE EASYFIX PYRAMID

THE EASYFIX PYRAMID OFFERS YOU THE POSSIBILITY OF MACHINING 3 PARTS SIMULTANEOUSLY. \*



Short and accurate set-up times



Adaptability to all 5-axis NCs



Repeat accuracy less than 0.005mm

# RANGE EASYFIX ↪ REHAUSSE

THESE EXTENSIONS CAN BE COUPLED WITH OUR UPPER TABLES AND VICES EQUIPPED WITH CLAMPING PINS.\*

## Modularity Flexibility

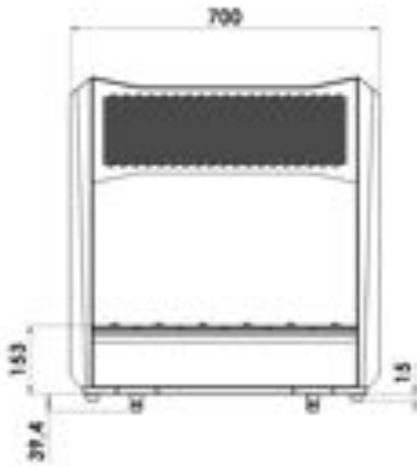
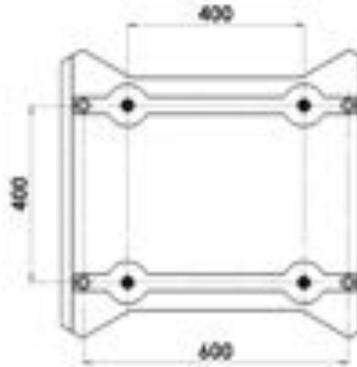


\*Visit our website [www.engineering-data.fr](http://www.engineering-data.fr)



# MEASURING STATION

# TOOL RACK IMPLEMENTATION



**SIMPLICITY**



**INTUITIVENESS**



**ERGONOMICS**



# TOOL RACK



The measuring station realized in collaboration with ZOLLER allows the adjustment, the management and the transport of cutting tools.

Thanks to the collaboration of the EASYPROD robot, the AMR\* SETH BOT from ENGINEERING DATA, the VENTURION control bench, the Keeper cabinet and the TMS software from ZOLLER, you benefit from a turnkey automated solution for the management and transport of your tools within your production.



\*autonomous mobile robot



**GARANTIE**

**S.A.V.**

▶ **S.A.V. AND REMOTE MAINTENANCE**

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**Tel. : 0811 042 117**

**Mail : [sav@engineering-data.fr](mailto:sav@engineering-data.fr)**



ENGINEERING DATA  
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INNOVATION  
AWARDS  
2016



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