

HandlingTech

Automations-Systeme



AS A TEAM. AUTOMATICALLY. BETTER.



IDEAS FOR TOMORROW

Innovative automation with a system

Profile

We have been implementing economical quality-assuring automation systems since 1994. They take the form of either independent machines or machine adaptations designed to permit the full automation of industrial process sequences.

Our motivated team is driven by stringent quality principles, innovative impetus and outstanding flexibility.

Areas of competence

We work with our customers to turn their individual automation ideas into practical solutions. Our modular systems are capable of simple, economical adjustment to your machine-specific needs. There is practically no limit to what we are able to automate: From standard systems through to highly complex bespoke solutions with supplementary processes and part infeed, we will deliver a quality-assuring, economical and reproducible process. A process to make you a key contender in today's tough competitive global markets.

What we can do for you

- Advice** – benefit from our experience
- Planning** – we will implement whatever it is you need
- CAD design** – we will chart out your route to success
- Electro design** – a solid foundation of competence
- Programing** – putting our knowledge to work for you
- Quality testing and documentation** – responsibility and security
- Installation and commissioning** – rapid, qualified service
- Production support** – efficiency helping you to succeed
- Training** – all-round support for you and your staff
- Maintenance and repairs** – let us take responsibility
- Servicing** – always there when you need us



"We are a successful and expanding company dedicated to the delivery of automation technology. Our responsible and motivated team is dedicated to the implementation of innovative automation solutions: no matter how tough the challenge, you may rely on them to find the optimum solution to your requirement. Since our company was founded in 1994, we have made a significant mark on the progress of automation technology, and we look forward supporting you in the achievement of your goals."



- 2013** Start in the new production complex in Steinenbronn with an area of 2200 square metres
- 2012** In June, HandlingTech receives the Fanuc Award for special achievements in the area of automation
- 2011** Distinction! The ROBAX unit receives the if Product Design Award 2011 for innovative design
- 2009** Development and launch of the new design ROBAX unit
- 2007** Expansion of the office complex and production facilities
- 2006** Acquisition of the company Waldmann & Weigl GmbH. Sale of the 100th robot
- 2003** Launch of the ROBAX systems. Expansion of the product portfolio to include lever arm robots
- 2002** Relocation to Stuttgart-Möhringen
- 1994** Foundation of the company HandlingTech Automations-Systeme GmbH by Jörg and Jochen Hutzel

A SYSTEMATIC APPROACH TO PROGRESS

Design meets function – the ROBAX robot unit

Our ROBAX standard unit was the proud recipient of the iF product design award 2011 for the harmony of its styling. The futuristic design of the unit unites functional and ergonomic benefits with the most stringent quality aspirations. The modular structure lends itself to practically any area of application.

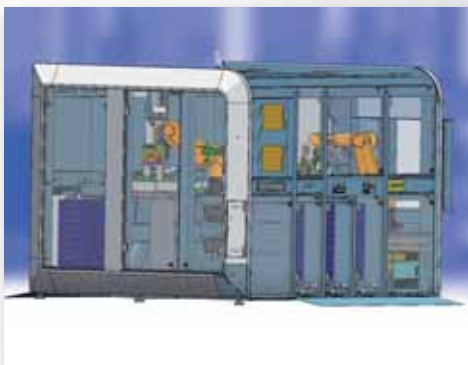
Inside the unit, industrial robots permit the handling of workpieces weighing from just a few grams to as much as 120 kilos. Non-standard solutions are also available which are capable of bearing loads of up to 1,250 kilos.

The ROBAX has the capability to deliver your own individual handling assignment in full compliance with your factory specifications:

- Workpiece loading and unloading
- Optional machining stations and assembly processes
- Supplementary part feed systems
- Flexible interface adjustment to OEM systems
- Basic storage solutions for all unit sizes
- Unit expansion into a highly complex bespoke system

Choose from a range of standard storage solutions

- Palletizers
- Transfer systems
- Conveyor belts
- Drawer storage
- Paternoster systems
- Non-standard solutions to your specification.



ROBAX SRZ 500:
Lateral loading and discharge of a honing machine



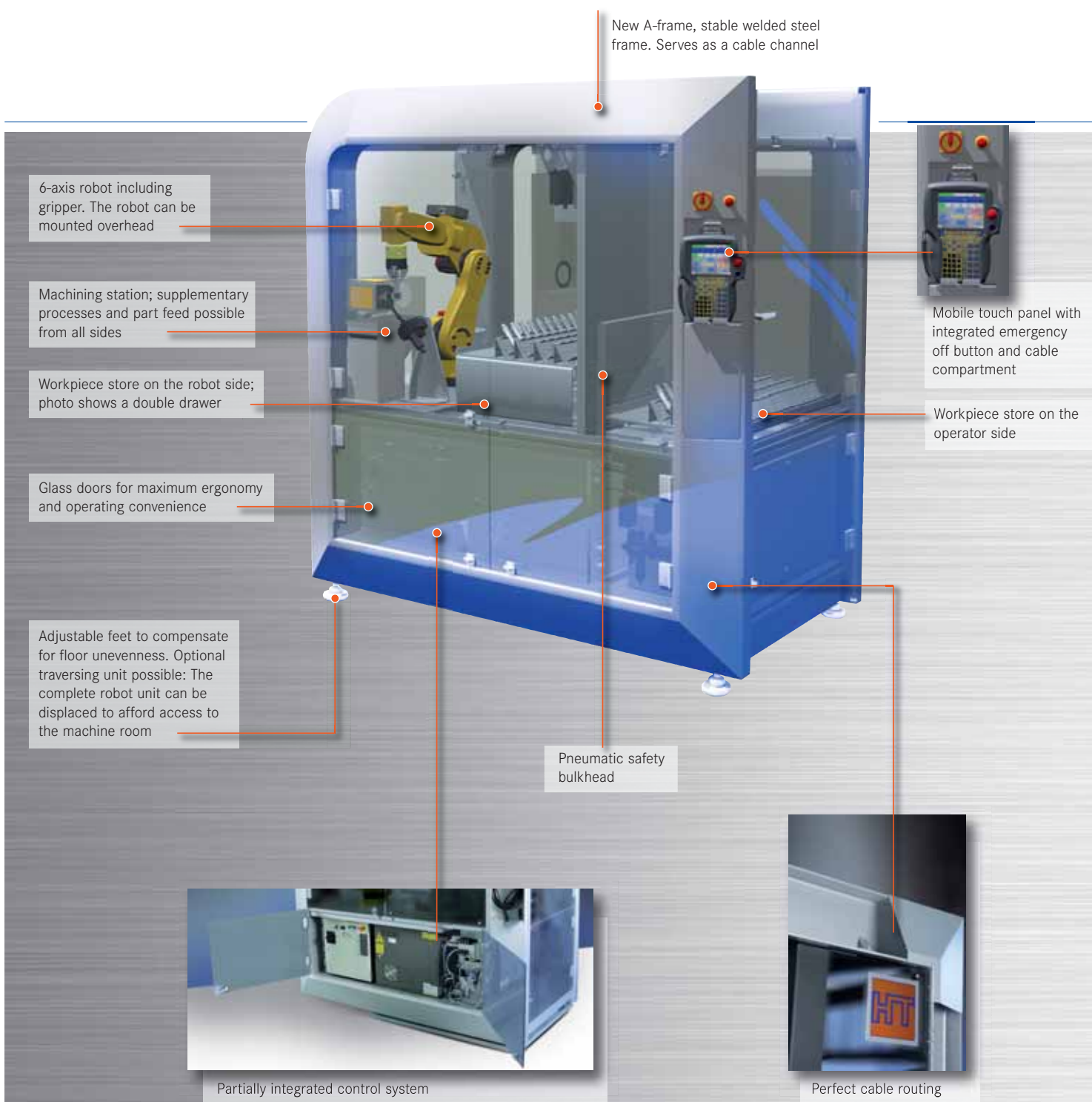


Winner of the if Product Design Award 2011
for outstanding design



BE CONVINCED OF THE ADVANTAGES OF FORM

An example of the new ROBAX cell, the SRZ 300



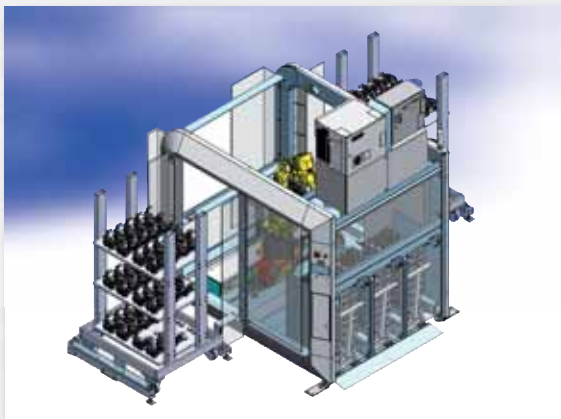
ROBAX OVERVIEW

SRZ robot units		Pallet storage solutions					Belt (B)	Special / bulk goods	Unit dimensions (W x D)
Approximate workpiece weight	Unit designation	Dual palletizer (2P)	Vertical drawer storage (12P)	Paternoster (16P)	Palletmaster as an axial system (PMA)	Palletmaster as a turnover system (PMU)			
Pallets 600x400									
up to 3.0kg	SRZ 200/5	600x400	12P				B	X	925 x 1500 (2P) 800 x 2200 (12P)
up to 6.0kg	SRZ 300/10	800x600	12P; 24P	16P	2PMA	2PMU	B	X	1300 x 2200 (2P) 1600 x 2200 (Pat.)
up to 12.0kg	SRZ 300/20		12P; 24P	16P	2PMA	2PMU	B	X	1500 x 2200
up to 12.0kg	SRZ 400/20	1200x600	12P; 24P	16P	2PMA; 3PMA	2PMU; 3PMU	B	X	1700 x 2600 2000 x 2600 (3PMU)
up to 30.0kg	SRZ 500/50	1200x800			2PMA; 3PMA	2PMU; 3PMU	B	X	2200 x 3000 2400 x 3000 (3PMU)
up to 120.0kg	SRZ 600/165	1200x800			2PMA; 3PMA	2PMU; 3PMU	B	X	2600 x 3500

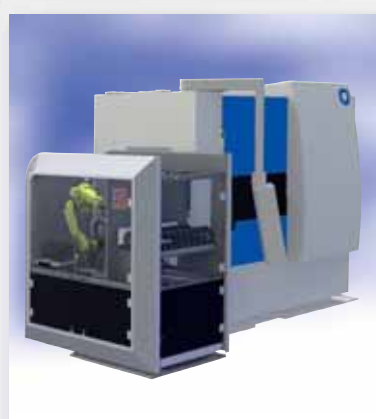
SRZ 300/10-2P with 7th supplementary axis, interlinking of three machine tools



SRZ 300/20-2PMU



SRZ 400/10L-3PMU



SRZ 300/10-2P

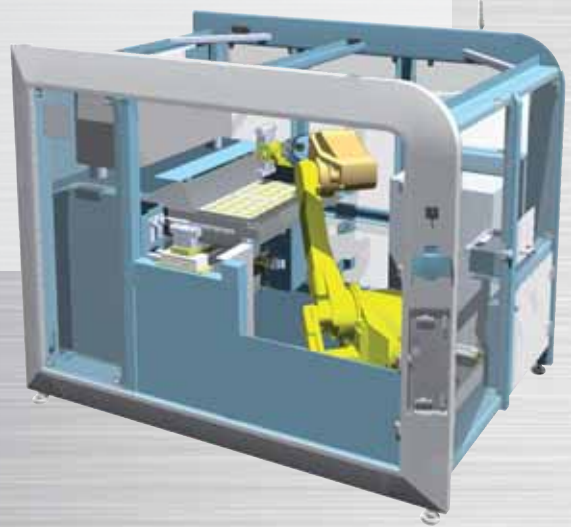
ECONOMY WITH A SYSTEM

Examples of robot cells with differing storage systems

Double drawer storage (2P)



Drawer system (4P)



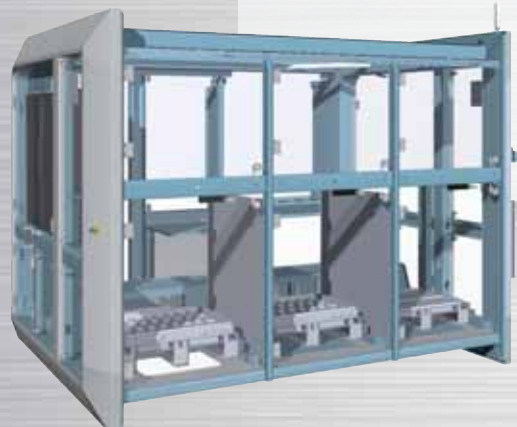
Paternoster system (16P)



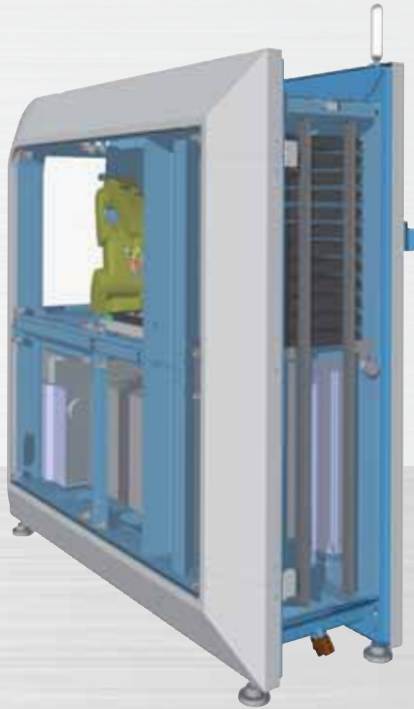
Palletmaster as a turnover system (PMU)



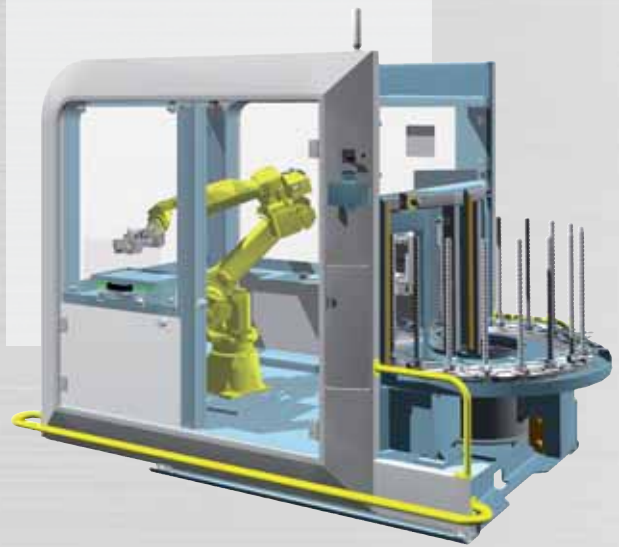
Palletmaster as an axis system (PMA)



Vertical drawer system (12P)



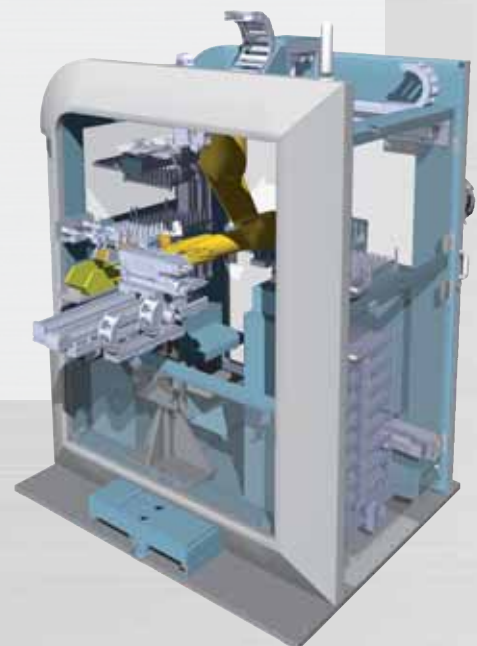
Rotating tower storage



Component storage and supply by means of an oscillating conveyor. Type recognition and rotary orientation recognition is performed by a camera system buffering of the finished components in the drawer



Palletmaster as a PMA with automatic part feed performed by a high-speed pick & place unit and an overhead robot

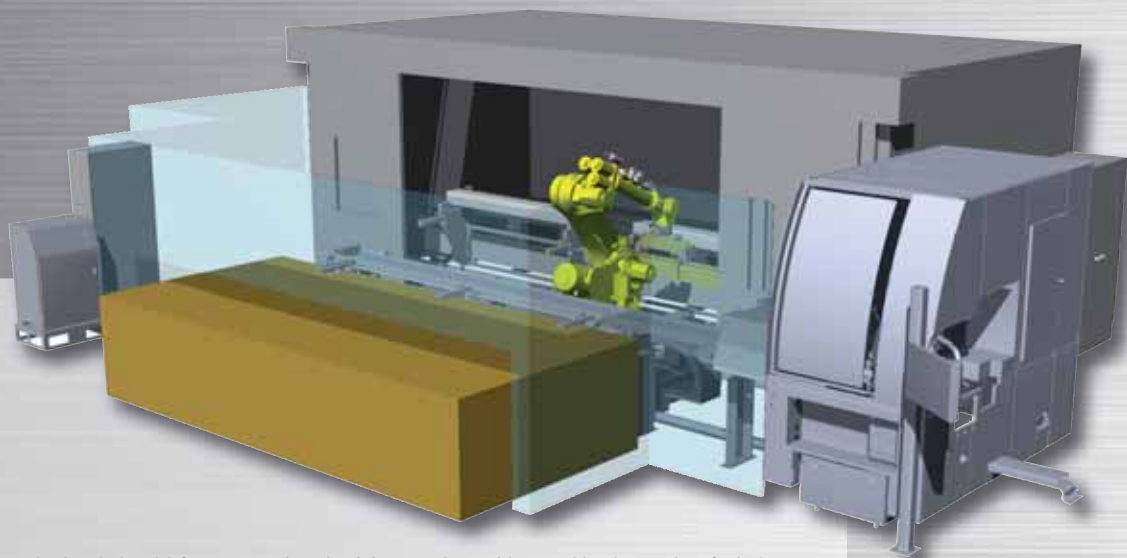


MADE-TO-MEASURE INDIVIDUAL CELLS

Transparency and accessibility

Robot solutions with a protective grill represent an alternative to the ROBAX cell. Both large areas and areas with many different interfaces can be operated individually using this variant. Conformity and safety can be guaranteed in each and every case despite a tremendous number of different variants.

Rail-mounted robots in particular call for this solution, due to their size. Transparency and accessibility for the operator and for service benefit significantly from the design.

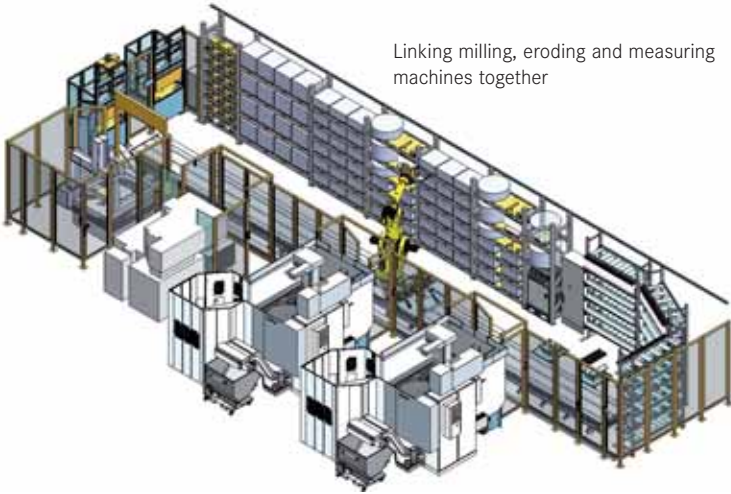


Rail-mounted robot (7th axis) for transporting aluminium sections with a total load capacity of 165 kg.

Unloading a saw, loading and unloading a machining centre. The robotic grab is equipped with an automatic change system. The grab will be stored in a depot.

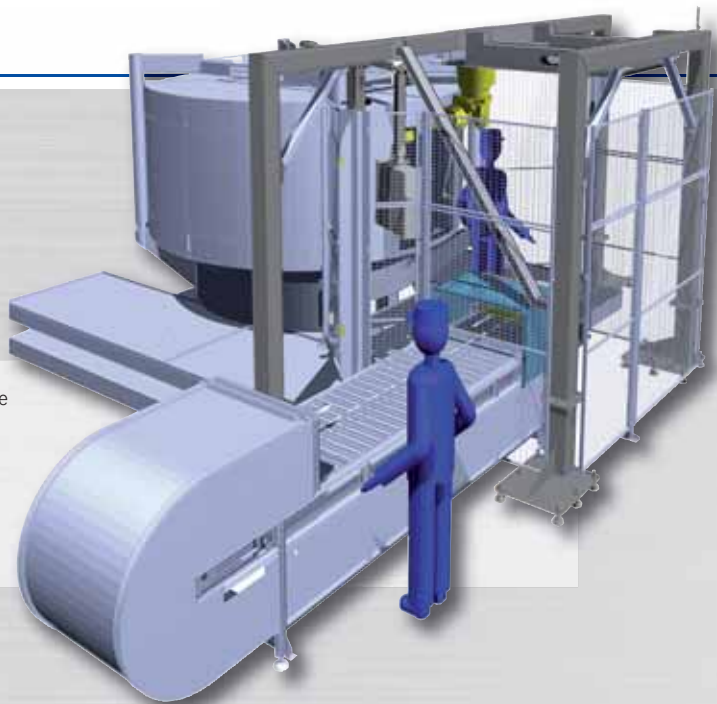


Linking milling, eroding and measuring machines together



Unloading work pieces from a rolling friction line and loading a machining centre.

The working area of the robot is secured by a protective grill



A rail-mounted robot for placement of already automated standalone facilities. Stocking and unloading using buffer management. The complete working area of the robot is secured by a protective grill



OPTIONAL PROCESSING STATIONS

Benefits of an independently operating production centre

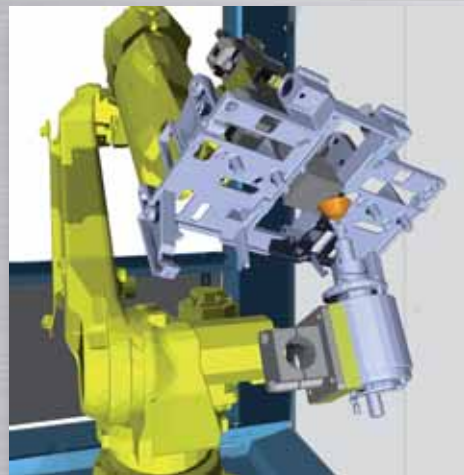
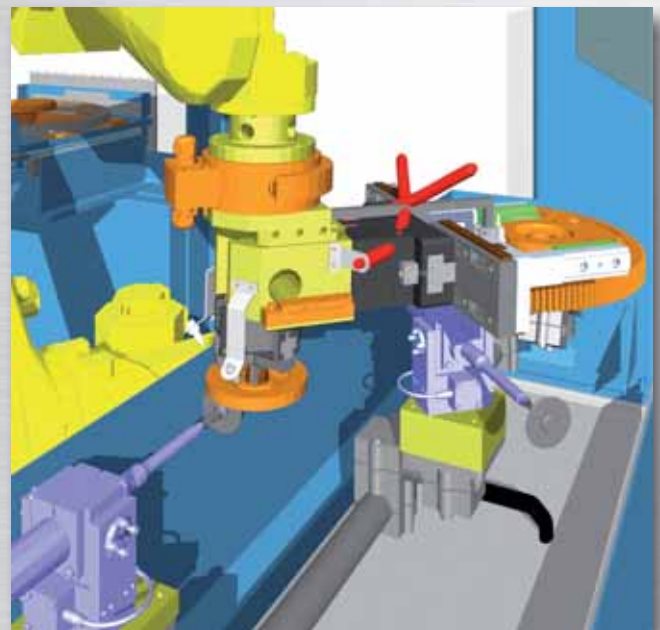
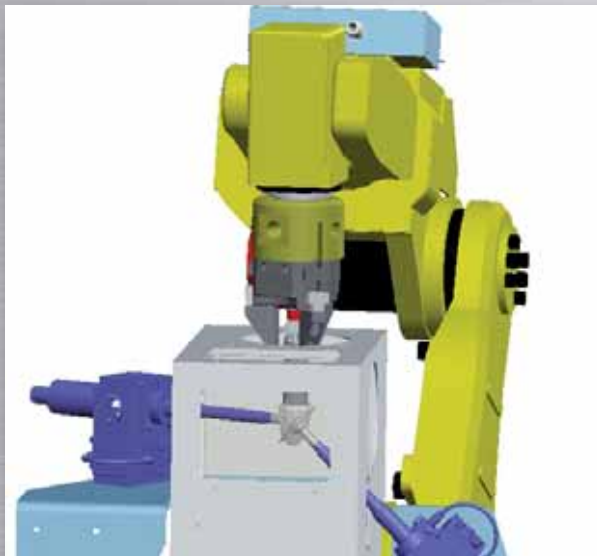
The modular housing concept of the ROBAX unit offers scope for the fast, simple integration of additional processing stations into your production line, enhancing the economy and quality of your production.

Whether you decide to equip your ROBAX unit with one or more peripheral stations depends on your individual requirement profile.

All additional processes can be adapted into the storage and transport systems.

Assembly, lasering, deburring, brushing, measurement, optical inspection, gluing, image processing and much, much more.

Deburring



Pressing



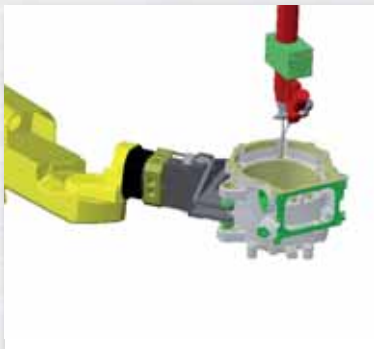
Grinding



Marking



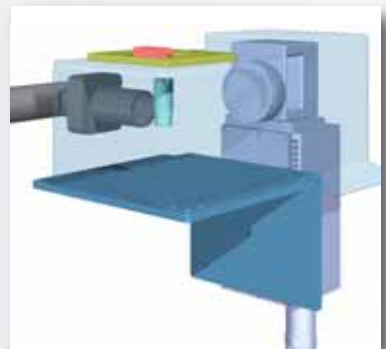
Gluing



Visual inspections



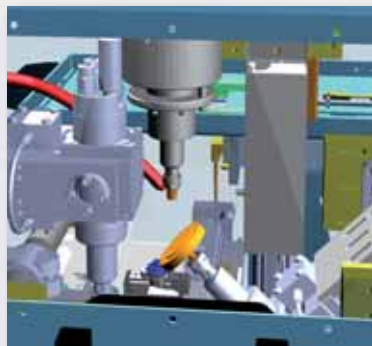
Lasering



Brushing



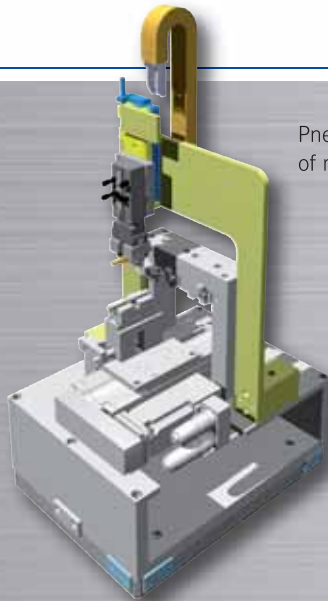
Brushing



Labelling

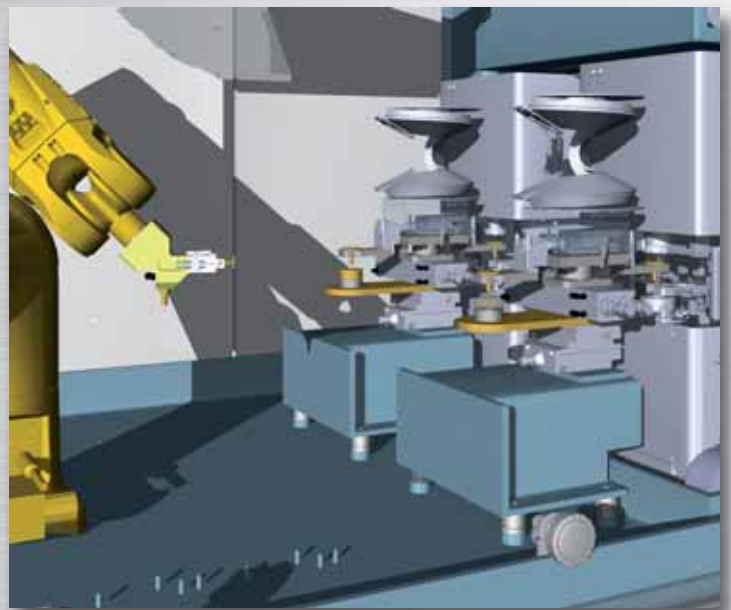


MEASURING SYSTEMS IN ROBAX CELLS

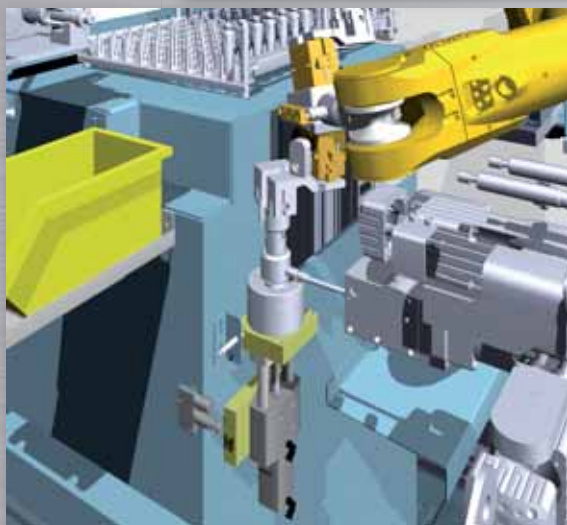
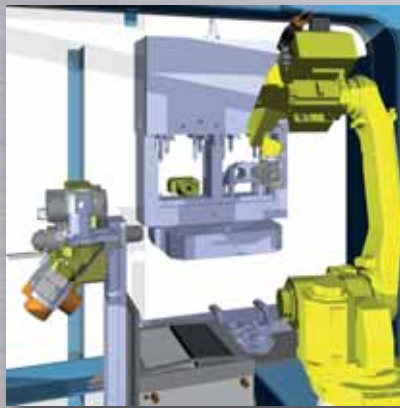


Pneumatic measurement of milled parts

Pneumatic measurement of needle-shaped parts to the level of micrometres

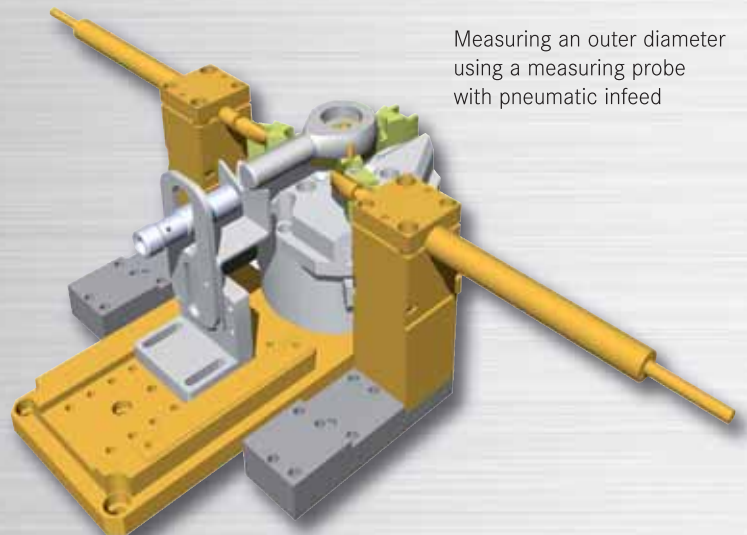


Pneumatic measurement of enclosures using an automatically selected pneumatic plug gauge



Pneumatic measurement of an inner diameter. The plug gauge is float-mounted

Measuring an outer diameter using a measuring probe with pneumatic infeed



ADDITIONAL PRODUCT LINES

PORTAX solutions

PORTAX systems are multiple-axis gantry handling systems for defined loading and unloading of machine tools.

2-axis gantry handling system for loading and unloading a grinding machine



PROAX solutions

PROAX systems are standardized pneumatic systems for component handling.

Magazine loader for long shafts



Special-purpose machine engineering



Workpiece transfer belt

Special-purpose machines

Special-purpose machines are bespoke solutions to individual customer requirements. Here, wide-ranging different production tasks are implemented using economical machines.

Conveying technology

A troublefree material flow is guaranteed by efficient component infeed and discharge of a wide range of different workpieces. The offered portfolio encompasses standard and universal conveyor belts as well as complex conveying systems.

Let automation drive your business - www.handlingtech.de



The new HandlingTech company building in Steinenbronn near Böblingen

HandlingTech
Automations-Systeme



HandlingTech Automations-Systeme GmbH
Gewerbestr. 7
71144 Steinenbronn/Germany
Tel: +49 (0)7157/ 9 89 19-0
Fax: +49 (0)7157/ 9 89 19-33
info@handlingtech.de
www.handlingtech.de