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AUTOMAZIONI INDUSTRIALI[®] S.r.l.



ROBOTICS Div.



Machine tending



We are committed and passionate to manufacturing customised robotic systems, providing our customers with reliable solutions that help them save time, earn money and improve the working conditions of the operators. Our philosophy is to win together with the customer, adopting a win-win strategy. We focus on flexible solutions and to achieve this goal we use 5 different robot brands and have an R&D department to develop our applications, so that each individual system is customised to the needs of the specific customer.

Our solutions are delivered on a turnkey basis.



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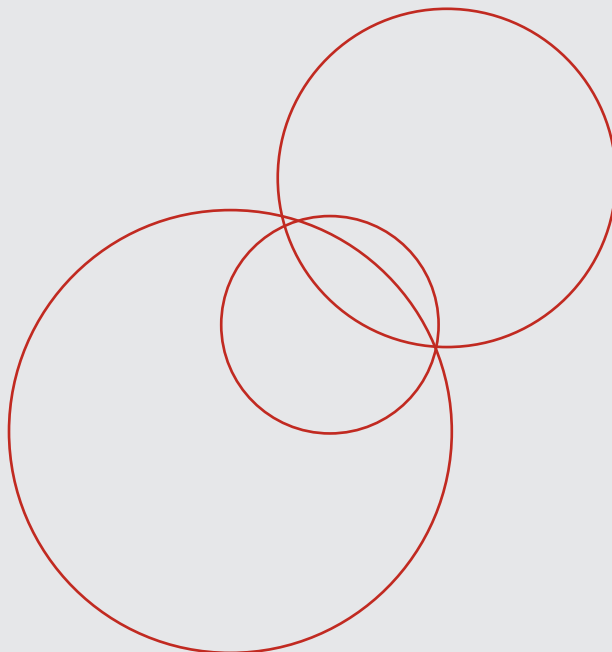
IA-Industrial Automation Corp.

7007 Engle Rd ste c, Middleburg
Heights, OH 44130,
USA

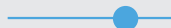
☎ +12165987552

The **industries** we innovate.

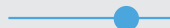
Machine tending



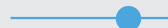
Machining



Automotive



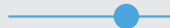
Water & HVAC



Forging & foundry



Plastic



E-Mobility





- ☐ **Unica loading**
- ☐ **CNC and machine tools**
- ☐ **Transfer machines**
- ☐ **Assembly and testing machines**
- ☐ **Hot forging**
- ☐ **Plastic injection moulding presses**
- ☐ **Assembly machines for plastic components**
- ☐ **3D Bin Picking**



UNICA

Universal Intelligent Compact Automation

- Applicable to various CNC machines
- Compact, transportable and adaptable
- Safe human-machine interaction without barriers



ROTARY TABLE

Recommended for:
rod cuts of different shapes

- SUITABLE FOR TURNING AND MILLING MACHINES
- EASY RETOOLING
- MAXIMUM OPERATOR SAFETY: LOADING/UNLOADING WHILE ROBOT IS WORKING
- QUICK SETUP



VIBRATORY FEEDERS

Recommended for:
small and medium parts

- SUITABLE FOR ASSEMBLY / LOADING OPERATIONS
- PERFECT FOR HIGH AUTONOMY
- SUITABLE FOR WORKPIECE SELECTION AND ORIENTATION
- HIGH-EFFICIENCY PROCESS

loading

- Easy setup
- Fast plug & play installation
- Payback in less than one year



3D BIN PICKING

Recommended for:
small and medium parts

- SUITABLE FOR OPERATIONS WITH LONG CYCLE TIMES
- ROBOT VISION ADAPTIVE TO THE DIFFERENT LIGHT CONDITIONS
- FLEXIBLE PICK-UP OF RANDOM PARTS
- INTELLIGENT **3DRS** VISION SYSTEM FOR ROBOT GUIDANCE



CONVEYOR BELTS

Recommended for:
sensitive parts

- SUITABLE FOR MULTIPLE PRODUCTION PROCESSES
- FLEXIBLE **2D** VISION SYSTEM FOR ROBOT GUIDANCE
- ZERO SETUP TIME
- PHASING OF WORKPIECE POSSIBLE

CNC and machine tools

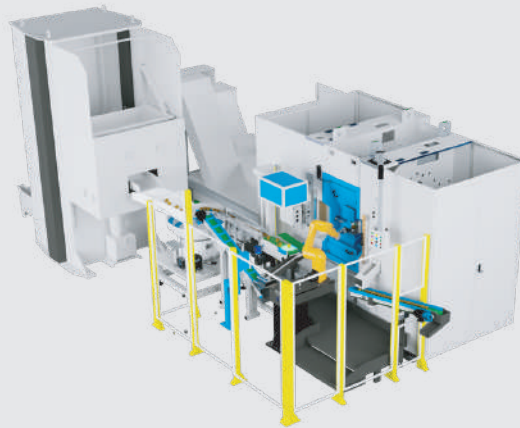
- Total operator safety
- Possibility of running post-processing stations
- High buffer
- High machine productivity
- Possibility of multi-processing: washing, marking, measuring, quality control
- Rapid changeover
- Possibility of managing two or more machining centres
- Self-learning operating software



The robotic systems for CNC machines can be designed and developed to simultaneously load two or more machine tools or CNC machines and they can be equipped with auxiliary stations for washing, measuring, marking, quality control or other operations depending on the production needs.

Transfer machines

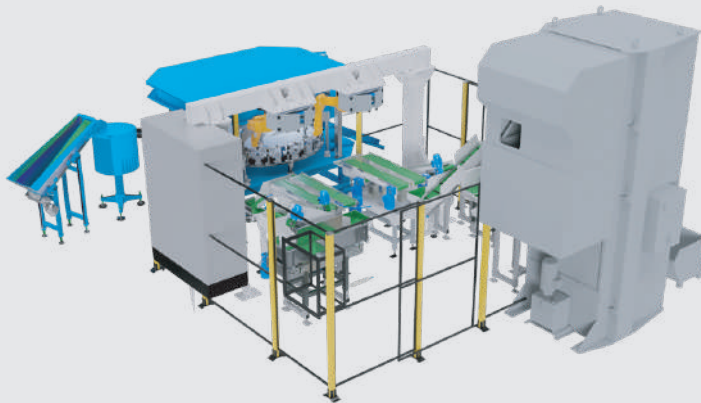
- Total operator safety
- Self-learning operating software
- High buffer
- Collaboration with worldwide transfer machine manufacturers
- Possibility to manage post-processing stations
- High machine productivity
- Multiple operations possible: washing, marking, drilling
- Rapid changeover
- Self-learning operating software
- Upon request: system for logo and lettering recognition; system diagnostics and management of production averages



Automation for transfer machines with our patented DRS vision system, which guarantees reduced workpiece loading times on the machine, as well as minimal setup times for production changeovers.

Assembly and testing machines

- Total operator safety
- Possibility of carrying out multiple machining operations
- High machine productivity
- Part counting and box management
- Rapid changeover
- Self-learning operating software
- High buffer



We develop and design robotic systems for automatic assembly machines, offering the possibility to handle even small batches automatically.

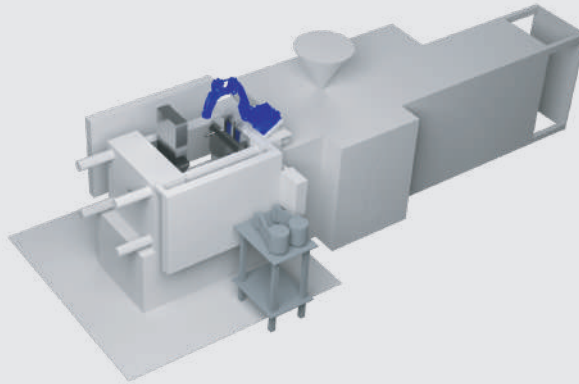
Hot forging

- Total operator safety
- Possibility of carrying out multiple machining operations
- High machine productivity
- Rapid changeover
- High buffer
- Piece counting and box management
- Self-learning operating software



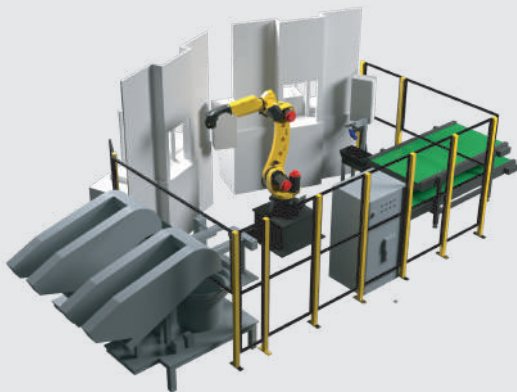
The robot cells for hot-forging presses are entirely designed and manufactured based on the customer's production requirements, offering the possibility to handle even small batches automatically.

Plastic injection moulding presses



The automation comprises a robot equipped with a special gripping unit. The robot first takes the material from a feeder, then the moulded part is unloaded from the press and finally the new material is loaded into the mould cavity. The robot can also carry out further operations including insert molding and sprue cutting.

Assembly machines for plastic components

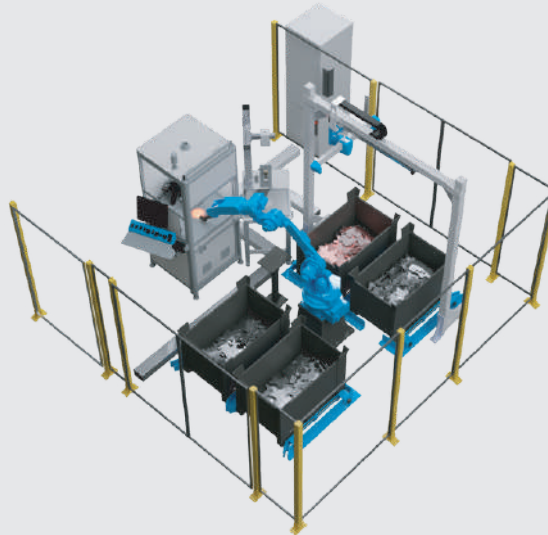


These robot cells can be equipped with one or more robots that carry out the loading and unloading of the pieces automatically, allowing to increase productivity and at the same time reduce costs. The cells can also be equipped with other stations inside the same line, dedicated to further processes such as testing and measuring, in order to guarantee the quality of the assembled product. All systems are designed and manufactured with specific components, designed not to compromise the quality of the machined and assembled parts.

3D Bin Picking



- Total operator safety
- Possibility of carrying out multiple machining operations
- High machine productivity
- Part counting and box management
- High buffer
- Rapid changeover
- Self-learning operating software



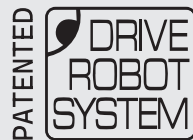
Thanks to our intelligent 3D vision system (3DRS), we are able to develop applications that allow to detect and pick up bulk parts directly from the bin (Bin Picking).



> Machine tending



Our brands



DRS vision system



3D vision system

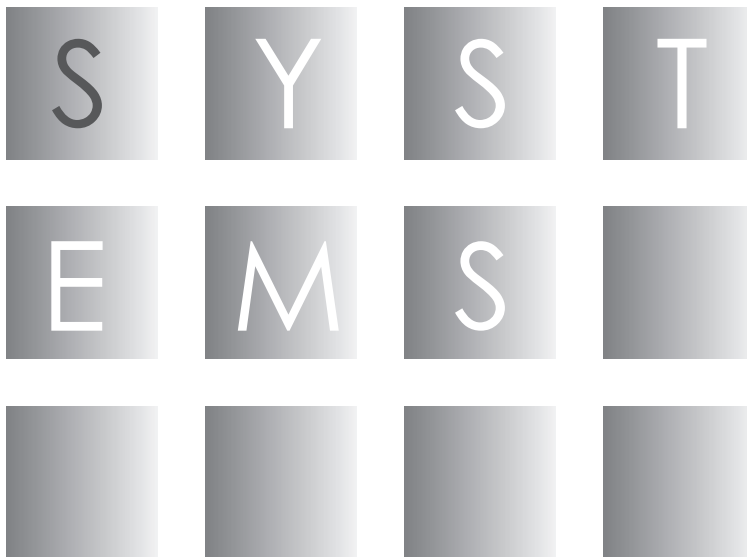
EASY 3D TRONIC

UNICA loading

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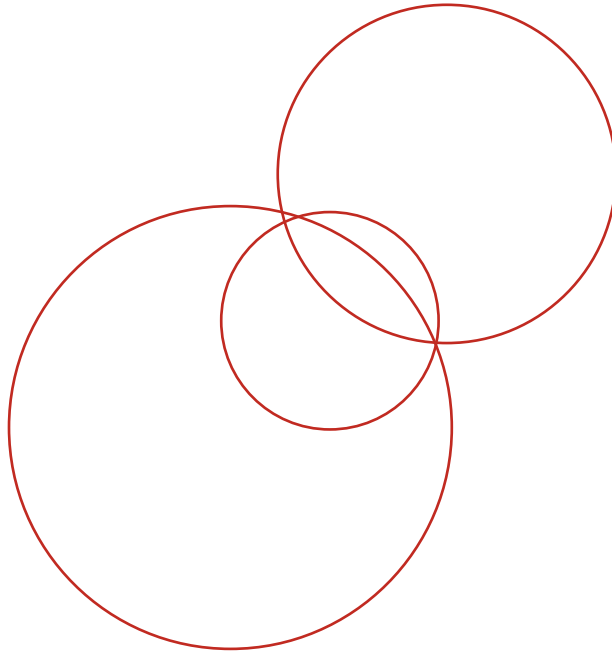
Systems

ROBOTICS Div.



- ☐ **Deburring cells**
- ☐ **Clipping press**
- ☐ **Electric clipping press**
- ☐ **Various handling -
Foundry/ die-casting**
- ☐ **Various handling - Washing**
- ☐ **Various handling - Palletising**

The **industries** we innovate.



Machining



Automotive



Water & HVAC



Forging & foundry



Plastic



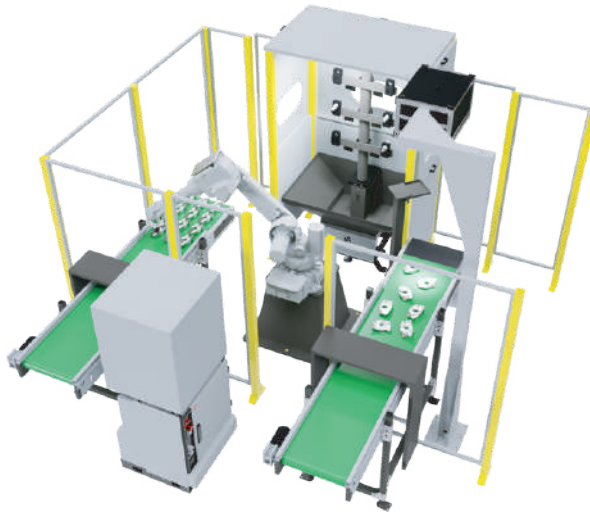
E-Mobility



Systems

Deburring cells

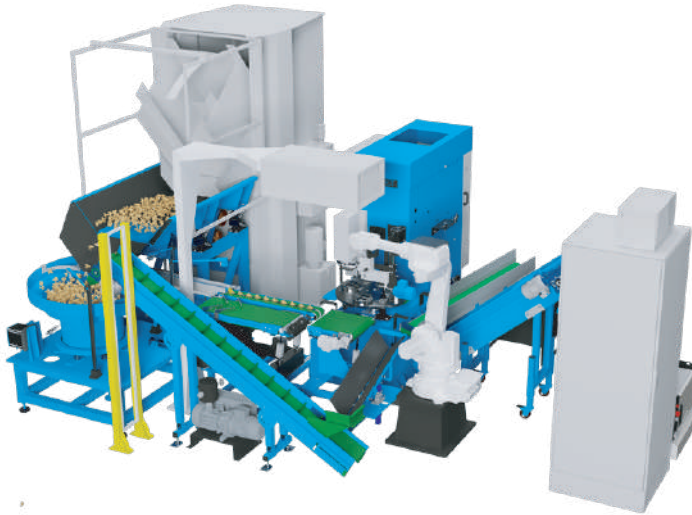
- Guaranteed homogeneous finishing
- Reduced cycle times
- Possibility of deburring different types of surfaces
- Avoid excessive deburring
- High-speed deburring tools
- Ideal for delicate and highly precise operations
- Deburring and finishing tool station



Our deburring robot cells are designed to automatically deburr workpieces using different tools within the same cell.

Clipping press

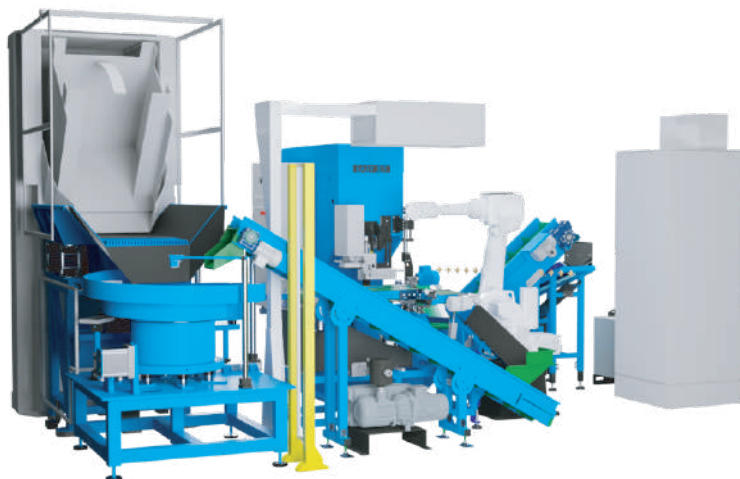
- High machine productivity: +30% increase in productivity
- Self-learning operating software
- Total operator safety
- Piece counting and box management
- Single source turnkey supplier
- Flexibility and 3-shift operation
- High buffer: no operator presence
- Quick tooling: 20 minutes
- Fast setup



Hydraulic clipping line with robot to remove heavy burrs from brass parts. The press is produced in different versions (30 to 50 Ton), supplied turnkey and comes with soundproof cabin.

Electric clipping press

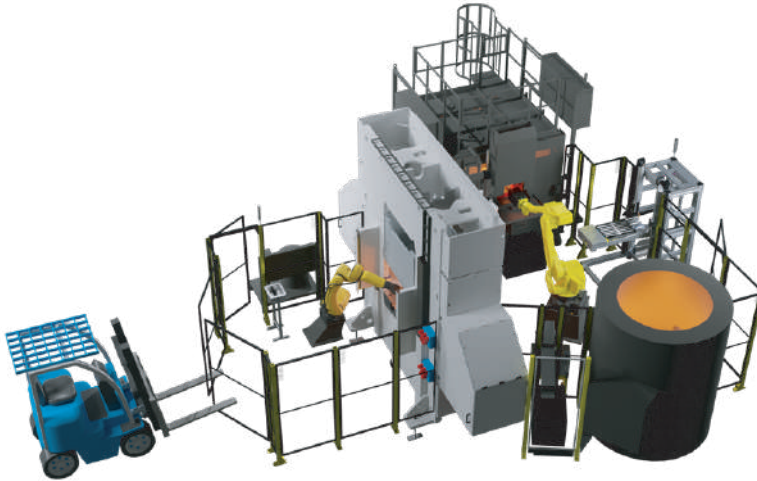
- Extreme clipping speed
- Reduction of rejects and piece recirculation
- Reduction of loading times
- Increased performance and productivity
- Maximum repeatability of the deflashing process



Easy 30 Tronic is the new 100% electric robotic clipping line that is perfect for removing heavy burrs from brass parts. The electric version allows to automatically produce 2700 pieces/hour, a +30% increase over the previous hydraulic versions.

Various handling - Foundry / die-casting

- Total operator safety
- Automatic die lubrication management
- Rapid changeover
- Palletised unloading possible
- Unloaded part conformity check
- High machine productivity
- High buffer
- Self-learning operating software



Specific robot systems for aluminium, steel or cast iron die-casting and foundry processes, where handling of parts at high temperatures is required.

Various handling - Washing

- Cleaning power of over 300 bar
- Extremely reliable and precise solution
- Simplified water jet management
- High buffer and efficiency guaranteed
- Particularly suitable for the automotive sector
- Also perfect for removing burrs or swarf
- 5 nozzles that can be customised and used one at a time
- Easy to programme
- Extreme flexibility: possibility to load different types of workpieces

Systems



The robotic high-pressure washing cell (power of over 300 bar) is an extremely effective solution for cleaning workpieces.

Various handling - Palletising

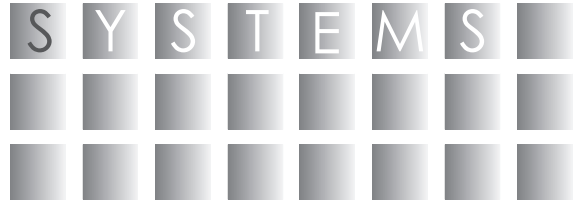
- Total operator safety
- Self-learning operating software
- Possibility of handling heavy or hot parts
- Possible to carry out counting, bagging, boxing operations



Palletising systems can be developed both for handling packaged products and for palletising parts. A further solution we provide is a compact warehouse with a modular structure. The parts are palletised in trays (12 + 12 trays) in fixed positions.



> Systems



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