

THE POWER, DRIVING THE RIGHT SOLUTION



pneumatic manipulators

**customised gripping solutions**



FAMATEC designs and manufactures customised gripping tool solutions to meet individual demands and regulations of the clients as well as those of the handling area.

FAMATEC offers different custom-made gripping solutions: magnet, pneumatic jaw gripper, vacuum gripper, mandrel, shaped hooks, forks.

FAMATEC gripping tooling allows the operator to solve handling problems in simple way; easy, safe and ergonomic.

The control column is supplied with push buttons and can be placed at different heights, on different sides and when required it can be vertically mobile with servo-control.

These gripping solutions help the operator in the handling operations; they allow the inclination and overturning of products and assembly items in a precise way; with pneumatic centring, sensors and positioning servo-controls.

FAMATEC gripping solutions are designed and manufactured to be used with products having different dimensions; this is achieved by employing mechanical and pneumatic components which are commercially available, reliable and plentiful.

FAMATEC's innovative, experienced and highly skilled designers develop gripping solutions that make the working area really safe, productive and comfortable.



**FAMATEC**  
pneumatic manipulators

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# AUTOMOTIVE

## MECHANICAL COMPONENTS

**Type:** ADIUTOR  
**Max. loading weight:** 170 kg  
**Max. working radius:** 3000 mm  
**Working cycle:** gripping product from the assembling position, rotation 180° around the vertical axle, releasing product on the container with manufactured products.



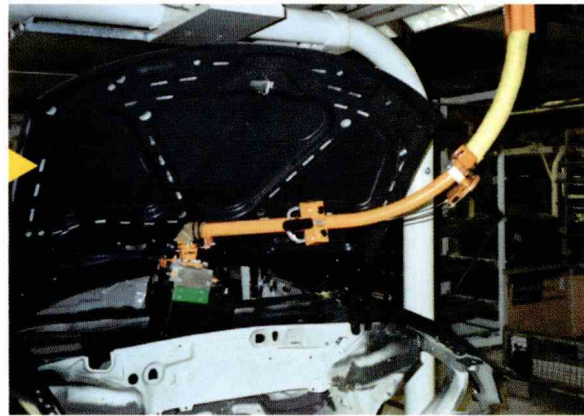
## SIDES

**Type:** ADIUTOR  
**Max. loading weight:** 40 kg  
**Max. working radius:** 3300 mm  
**Working cycle:** gripping product from container and releasing it on trimming line.



## BATTERIES

**Type:** AGILE  
**Max. loading weight:** 30 kg  
**Max. working radius:** 2800 mm  
**Working cycle:** gripping product from pallet and releasing on car housing by acting on the relevant handlebar grip.

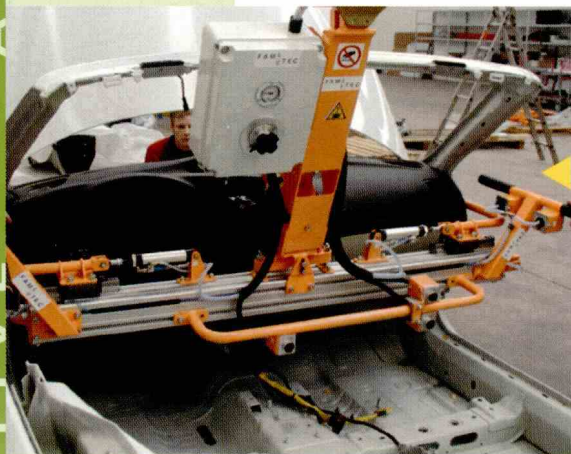


## WHEELS

**Type:** AGILE  
**Max. loading weight:** 30 kg  
**Max. working radius:** 2700 mm  
**Working cycle:** gripping product from pallet vertically, incline product 90° pneumatically, manual rotation around wheel axle to place the fixing bolts.

## ROOFS

**Type:** ADIUTOR  
**Max. loading weight:** 15 kg  
**Max. working radius:** 3200 mm  
**Working cycle:** gripping product from container, overturn 180°, releasing on trimming line.



## DASHBOARDS

**Type:** ADIUTOR  
**Max. loading weight:** 90 kg  
**Max. working radius:** 3600 mm  
**Working cycle:** gripping product from container, releasing on car by using the double centring handles.

## TOPS

**Type:** ADIUTOR  
**Max. loading weight:** 15 kg  
**Max. working radius:** 3200 mm  
**Working cycle:** gripping product from pallet horizontally, incline product 45° to place it on car.







## FRONTAL SIDES AND RADIATOR

**Type:** AGILE

**Max. loading weight:** 55 kg

**Max. working radius:** 2500 mm

**Working cycle:** gripping from truck the frontal set equipped with bumpers, optical set, stiffening bar, radiator; a sequence of pneumatic servomechanism will open car calendar thus allowing the precise placement of the frontal side.



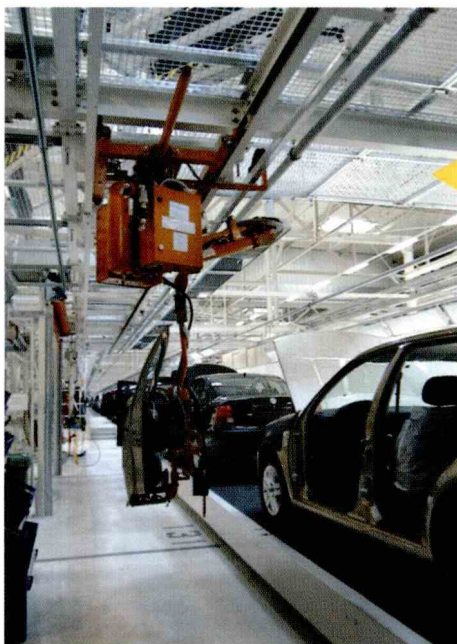
## EXHAUST SYSTEMS

**Type:** ADIUTOR

**Max. loading weight:** 35 kg

**Max. working radius:** 4200 mm

**Working cycle:** gripping product from assembling and stitching bench, incline product 90° pneumatically to place it on robotized cleat jig. When the working operations finish (with high temperatures), incline product 90° pneumatically to release it firstly on stamping bench and then on container.



## DOOR AND HATCHBACKS

**Type:** AGILE

**Max. loading weight:** 45 kg

**Max. working radius:** 2000 mm

**Working cycle:** gripping product from container, incline product 15° pneumatically, precisely place product to assemble and fix it in the car.



## SEATS

**Type:** ADIUTOR

**Max. loading weight:** 35 kg

**Max. working radius:** 3400 mm

**Working cycle:** gripping back seat from the container, incline product about 20° pneumatically to place it inside the car back housing.





## SUSPENSIONS

**Type:** AGILE  
**Max. loading weight:** 45 kg  
**Max. working radius:** 2800 mm  
**Working cycle:** gripping product from container, pneumatic rotation 90°, releasing product on assembly line.



## ROOFS

**Type:** ADIUTOR  
**Max. loading weight:** 55 kg  
**Max. working radius:** 4000 mm  
**Working cycle:** gripping product from container, incline product 180° manually, placing product inside the car whilst pushing it upward.



## FRAMES AND PLATFORM CAR

**Type:** INVICTUM  
**Max. loading weight:** 15 kg  
**Working cycle:** gripping product from box, releasing product on assembly line horizontally.



## WINDSCREEN

**Type:** ADIUTOR  
**Max. loading weight:** 20 kg  
**Max. working radius:** 4400 mm  
**Working cycle:** gripping product from the jig, overturn 180°, releasing product to start the next working operation.



## CAMPER COOKERS

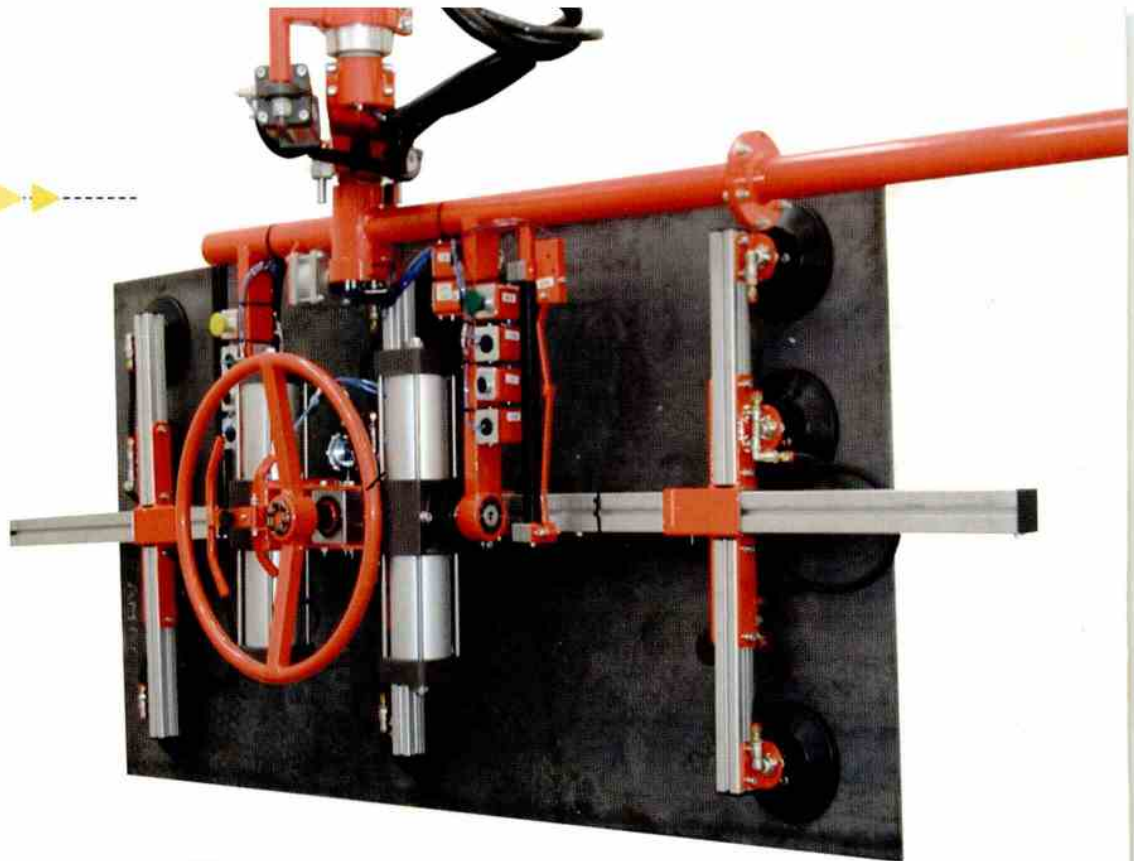
**Type:** FIDO  
**Max. loading weight:** 60 kg  
**Working cycle:** gripping product from container to place it inside the camper with a rotation 45°.



## TOOLS

**Type:** AGILE  
**Max. loading weight:** 10 kg  
**Max. working radius:** 3200 mm  
**Working cycle:** manipulator holds the pneumatic wrench in balanced condition thus allowing the operator to place it in all the positions needed to fix the bolts to the frame. Strengthened brakes allowing it to take the stress.





# SHEET

## PERFORATED AND BENT SHEETS

**Type:** ADIUTOR  
**Max. loading weight:** 70 kg  
**Max. working radius:** 3500 mm  
**Working cycle:** gripping product from roller unloading manufactured products, overturn 180° and releasing product on container.



## INDUSTRIAL MAINDOOR SHUTTERS

**Type:** ADIUTOR  
**Max. loading weight:** 70 kg  
**Max. working radius:** 3500 mm  
**Working cycle:** lifting of product from roller by using vacuum gripper, overturn 180° and releasing product on container.



## GARAGE DOORS

**Type:** ADIUTOR  
**Max. loading weight:** 150 kg  
**Max. working radius:** 3200 mm  
**Working cycle:** gripping product horizontally from the assembling bench, incline product 100° pneumatically, releasing vertically on container.







## SHEETS TO BE PRESSURE BENT

**Type:** HABILE

**Max. loading weight:** 120 kg

**Max. working radius:** 2800 mm

**Working cycle:** gripping product from truck by using vacuum gripper, execute 4 bending operations in balanced condition and releasing product on pallet. When required the operator can execute counterbending operations by using a relevant stand.



## STRAP COILS

**Type:** ADIUTOR

**Max. loading weight:** 200 kg

**Max. working radius:** 2600 mm

**Working cycle:** gripping product from pallet by using ring vacuum gripper, incline product 90°, releasing product on uncoiler.



## GARAGE DOORS

**Type:** ADIUTOR

**Max. loading weight:** 150 kg

**Max. working radius:** 3200 mm

**Working cycle:** gripping product from assembling bench by using shaped jaw grippers, incline product pneumatically 90° to bring it in vertical position, releasing on the container of finished products.

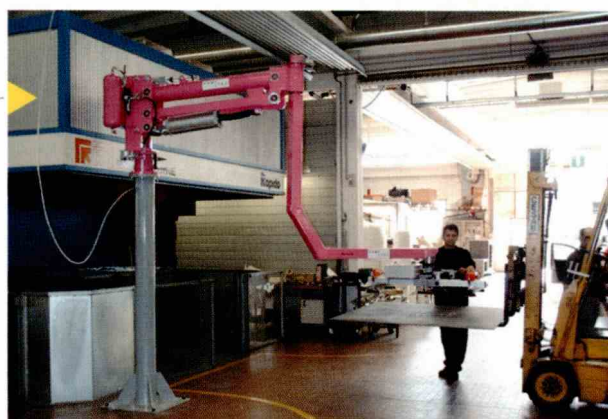
## SHEETS

**Type:** ADIUTOR

**Max. loading weight:** 300 kg

**Max. working radius:** 2600 mm

**Working cycle:** gripping product from pallet by using vacuum grippers and releasing on laser cutting bench.



## CALENDARED SHEETS

**Type:** ADIUTOR

**Max. loading weight:** 50 kg

**Max. working radius:** 4000 mm

**Working cycle:** by using vacuum grippers gripping ferrules having different diameters from calender support, incline product 90° pneumatically to bring it in vertical position, releasing on the container of finished products.





## HEAT EXCHANGER PLATES

**Type:** ADIUTOR  
**Max. loading weight:** 120 kg  
**Max. working radius:** 3000 mm  
**Max. vertical excursion:** 1100 mm  
**Working cycle:** by using magnet, gripping product from deep shelves, incline and rotate product to place it on stitching stand, releasing product when stitching operations finish.



## ALUMINIUM DISC PARCELS

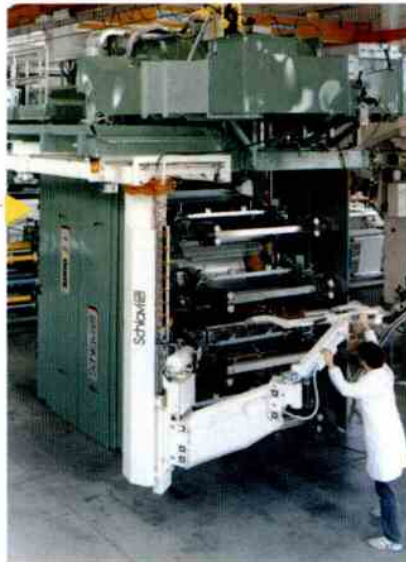
**Type:** ADIUTOR  
**Max. loading weight:** 100 kg  
**Max. working radius:** 2700 mm  
**Working cycle:** with a gripper equipped with 3 jaws, gripping product from pallet and loading to press transfer line.

## PIPE JOINTS

**Type:** ADIUTOR  
**Max. loading weight:** 200 kg  
**Max. working radius:** 2700 mm  
**Working cycle:** by using gripper, gripping welded joint (high temperature), incline product 90° pneumatically, releasing it on the container with manufactured products.

## PRINTING ROLLERS

**Type:** ADIUTOR  
**Max. loading weight:** 200 kg  
**Max. working radius:** 2600 mm  
**Working cycle:** with shaped hooks, gripping product from the relevant support and placing it inside the housing of the flexographic machine.



## TANKS

**Type:** ADIUTOR  
**Max. loading weight:** 150 kg  
**Max. working radius:** 2900 mm  
**Working cycle:** gripping product with vacuum grippers, rotation 90°, placing product inside the tank for the tight joint test; when the test finishes, gripping product and releasing it vertically.





## CARRIAGE SPRINGS

**Type:** ADIUTOR  
**Max. loading weight:** 250 kg  
**Max. working radius:** 2800 mm  
**Working cycle:** by using gripper, gripping product from pallet and placing it inside the testing machine.



## STEEL DISCS

**Type:** ADIUTOR  
**Max. loading weight:** 120 kg  
**Max. working radius:** 3200 mm  
**Working cycle:** by using gripper, gripping product from pallet, incline product 45° to place it on welding machine.



## AGRICULTURAL AXLE SHAFTS

**Type:** HABILE  
**Max. loading weight:** 70 kg  
**Max. working radius:** 2850 mm  
**Working cycle:** by using shaped forks, gripping product from pallet, manual rotation 90°, placing product into working centre.



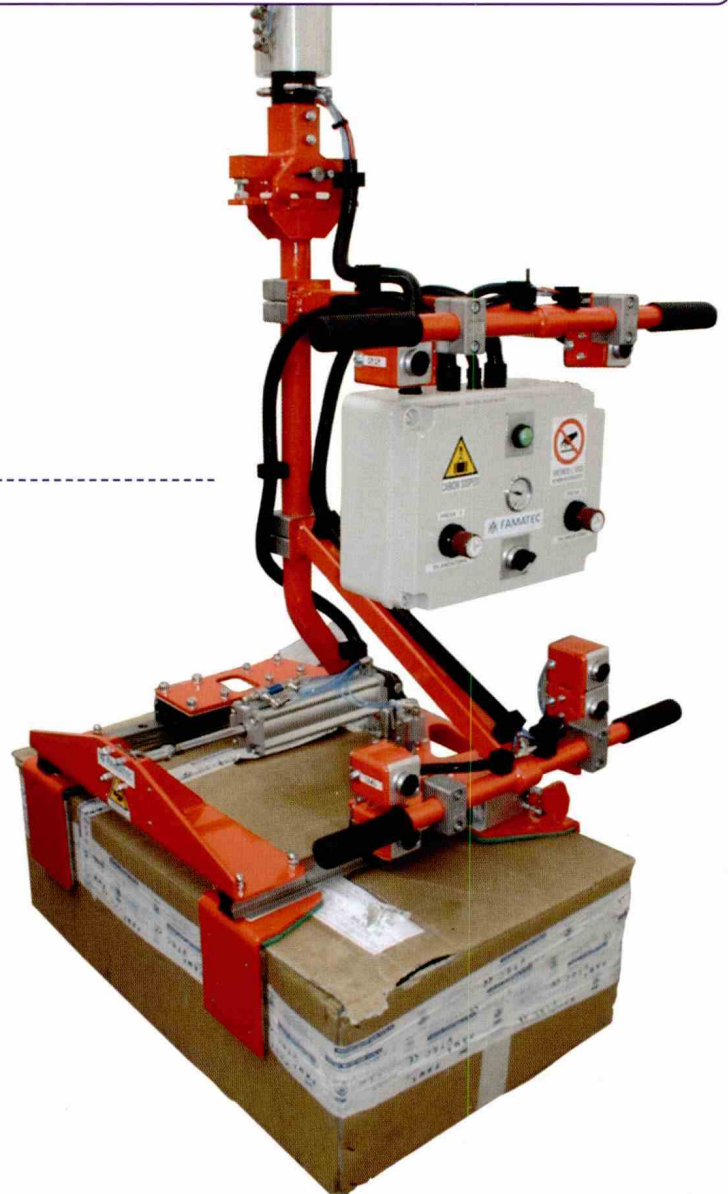
# MECHANICS

# WHITE GOODS/ELECTRIC HOUSEHOLD APPLIANCES



## INDUSTRIAL REFRIGERATORS

**Type:** ADIUTOR  
**Max. loading weight:** 220 kg  
**Max. working radius:** 3000 mm  
**Working cycle:** by using vacuum grippers, gripping product from roller, rotate product 90° pneumatically to assemble fittings, return into gripping position and releasing product on pallet.



## OVEN DOORS

**Type:** AGILE  
**Max. loading weight:** 50 kg  
**Max. working radius:** 2700 mm  
**Working cycle:** gripping product from container, pneumatic rotation 90°, placing product on hinges to fix pins and fittings.

## OVEN

**Type:** VALIDUS  
**Max. loading weight:** 20 kg  
**Max. working radius:** 2300 mm  
**Working cycle:** by using vacuum grippers, gripping product from roller, pneumatic rotation 180° to place product inside packaging.







## COFFEE MAKER

**Type:** ADIUTOR  
**Max. loading weight:** 110 kg  
**Max. working radius:** 3200 mm  
**Working cycle:** by using shaped forks, gripping product from assembling truck and releasing it on pallet.

## BEVERAGE MACHINES

**Type:** ADIUTOR  
**Max. loading weight:** 110 kg  
**Max. working radius:** 3200 mm  
**Working cycle:** by using gripper, gripping door from assembling bench, pneumatic rotation 90°, placing product on hinges to fix it.

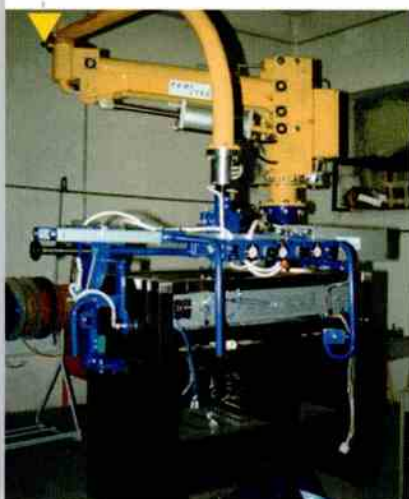


## FREEZERS

**Type:** ADIUTOR  
**Max. loading weight:** 200 kg  
**Max. working radius:** 3000 mm  
**Working cycle:** by using vacuum grippers, gripping product from the bench of the foaming machine, pneumatic rotation 180°, releasing product on truck with manufactured products.

## COOKERS

**Type:** ADIUTOR  
**Max. loading weight:** 70 kg  
**Max. working radius:** 3000 mm  
**Working cycle:** by using gripper, gripping top cooker from roller, overturn product manually to place it on cooker body, by using vacuum grippers, gripping finished cooker body and placing it on roller with finished products.



## REFRIGERATORS SIDES

**Type:** ADIUTOR  
**Max. loading weight:** 60 kg  
**Max. working radius:** 3200 mm  
**Working cycle:** by using vacuum grippers, gripping glass from container, pneumatic rotation 90° to place product inside refrigerator side sheet, gripping the entire side, placing it on refrigerator body to fix the screws.





## ELECTRIC FUEL PUMPS

**Type:** VALIDUS

**Max. loading weight:** 30 kg

**Max. working radius:** 2300 mm

**Max. vertical excursion:** 1900 mm

**Working cycle:** by using gripper, gripping product from bench and placing it inside packaging.

## STATORS

**Type:** ADIUTOR

**Max. loading weight:** 90 kg

**Max. working radius:** 3000 mm

**Working cycle:** by using gripper, gripping product from the line of fusion, pneumatic overturn 180°, releasing product on working bench.



## CONTROLLED DEVICES

**Type:** ADIUTOR

**Max. loading weight:** 60 kg

**Max. working radius:** 3000 mm

**Working cycle:** by using gripper, gripping product from bench and placing it inside packaging.



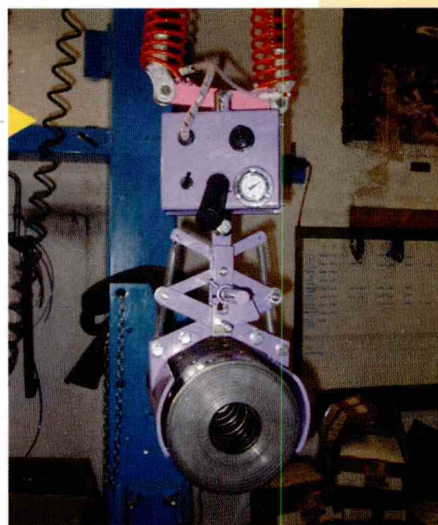
## BRAKING DEVICES

**Type:** HABILE

**Max. loading weight:** 80 kg

**Max. working radius:** 3000 mm

**Working cycle:** by using pantograph gripper, gripping product from roller and placing it inside packaging.



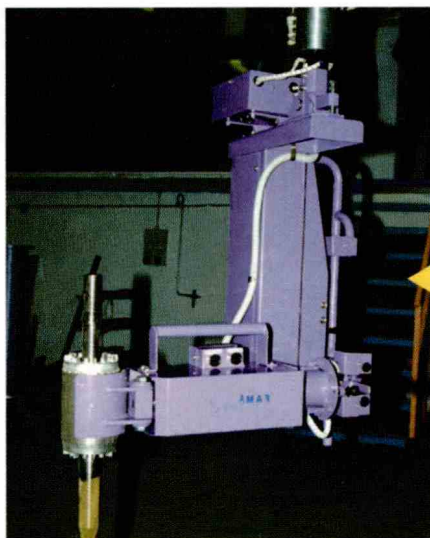
## SHEET PARCELS

**Type:** VALIDUS

**Max. loading weight:** 40 kg

**Max. working radius:** 2300 mm

**Working cycle:** by using magnet, gripping product from box and releasing it on line.



## ROTORS

**Type:** ADIUTOR

**Max. loading weight:** 60 kg

**Max. working radius:** 3300 mm

**Working cycle:** by using gripper, gripping product from truck, incline product 90° pneumatically, manual rotation 180°, placing product on balancing machine.





## STATOR PARCELS

**Type:** ADIUTOR

**Max. loading weight:** 150 kg

**Max. working radius:** 3000 mm

**Working cycle:** by using gripper, gripping product from roller, placing product firstly in assembly position and then on skein shaping position.

## FINISHED PRODUCTS

**Type:** VALIDUS

**Max. loading weight:** 45 kg

**Max. working radius:** 2300 mm

**Working cycle:** by using gripper, gripping product from roller, releasing it on pallet.



# ELECTROTECHNICS

## ROTORS

**Type:** ADIUTOR

**Max. loading weight:** 55 kg

**Max. working radius:** 3600 mm

**Working cycle:** by using gripper, gripping product from transport chain, placing product inside melting machine, when the melting operations finish starting the inverse cycle with the high temperature product.



# WOOD



## MDF AND CHIPBOARD PANELS

**Type:** ADIUTOR

**Max. loading weight:** 80 kg

**Max. working radius:** 4000 mm

**Working cycle:** by using vacuum grippers, gripping product from roller and releasing it on pantograph.



## FINISHED FURNITURE

**Type:** HABILE trolley overhead mounted

**Max. loading weight:** 60 kg

**Working cycle:** by using gripper, gripping product from roller and releasing it on pallet.

## COATED PANELS

**Type:** HABILE single bridge crane trolley overhead mounted

**Max. loading weight:** 140 kg

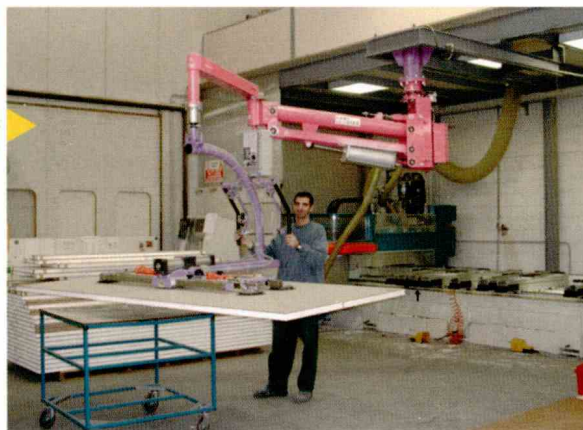
**Working cycle:** by using vacuum grippers, gripping product from truck, incline product 90° pneumatically, releasing it on cutting machine.





## COATED PANELS

**Type:** ADIUTOR  
**Max. loading weight:** 140 kg  
**Max. working radius:** 3000 mm  
**Working cycle:** by using vacuum grippers, gripping product from truck, overturn product 180°, releasing product on cutting machine.



## CHIPBOARD PANELS

**Type:** ADIUTOR ON BASEPLATE  
**Max. loading weight:** 150 kg  
**Max. working radius:** 3500 mm  
**Working cycle:** by using vacuum grippers, gripping product from parcel, placing product on FAMATEC pneumatic tipper to overturn it 180°, gripping product again and releasing it on cutting machine.



## MDF PANELS

**Type:** ADIUTOR ON BASEPLATE  
**Max. loading weight:** 200 kg  
**Max. working radius:** 3200 mm  
**Working cycle:** by using vacuum grippers, gripping product from the (working) line, incline product 90° pneumatically for visual inspection, releasing it on the parcel of manufactured products.



## PALLET

**Type:** ADIUTOR  
**Max. loading weight:** 40 kg  
**Max. working radius:** 3500 mm  
**Working cycle:** gripping product with forks, overturn it 180° pneumatically, releasing product on the parcel of manufactured products.



## TRUNKS

**Type:** ADIUTOR  
**Max. loading weight:** 60 kg  
**Max. working radius:** 3200 mm  
**Working cycle:** gripping product with gripper, pneumatic rotation 120°, releasing product on roller.



## ALUMINIUM DIES

**Type:** ADIUTOR

**Max. loading weight:** 80 kg

**Max. working radius:** 3000 mm

**Working cycle:** by using forks, gripping product from truck, overturn product 180° manually, releasing product into working centre.



## LIGHT ALLOY WHEEL RIMS

**Type:** HABILE single bridge crane trolley overhead mounted

**Max. loading weight:** 40 kg

**Working cycle:** by using gripper, gripping product from pallet, overturn product manually and releasing it on roller.

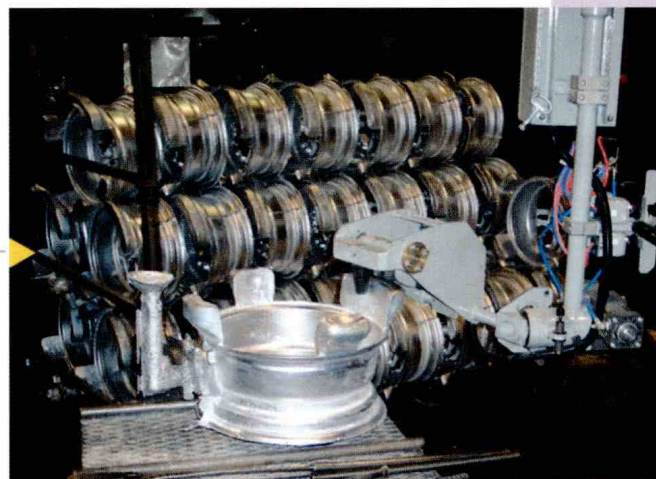
## LIGHT ALLOY WHEEL RIMS

**Type:** ADIUTOR

**Max. loading weight:** 40 kg

**Max. working radius:** 3400 mm

**Working cycle:** by using pneumatic gripper, gripping product from melting machine, pneumatic rotation 90° and releasing product on container.



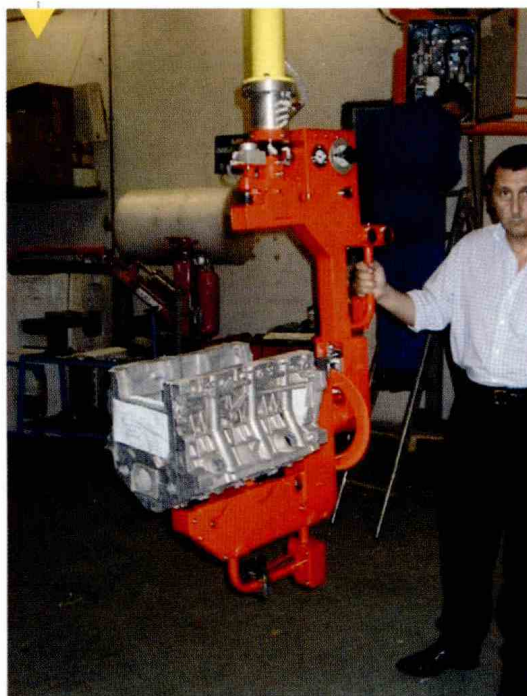
## MOLTEN HEADS

**Type:** ADIUTOR

**Max. loading weight:** 50 kg

**Max. working radius:** 3000 mm

**Working cycle:** by using gripper, gripping product from roller, manual rotation around the centre of gravity 180°, releasing product into working centre.



## MOLTEN AXLE SHAFTS

**Type:** ADIUTOR

**Max. loading weight:** 120 kg

**Max. working radius:** 3000 mm

**Working cycle:** by using gripper, gripping product from roller and releasing it on container.





## MOLTEN ALUMINIUM

**Type:** INVICTUM single bridge crane trolley overhead mounted  
**Max. loading weight:** 30 kg  
**Working cycle:** gripping molten aluminium from the melting pot, filling melting die.



## CORES

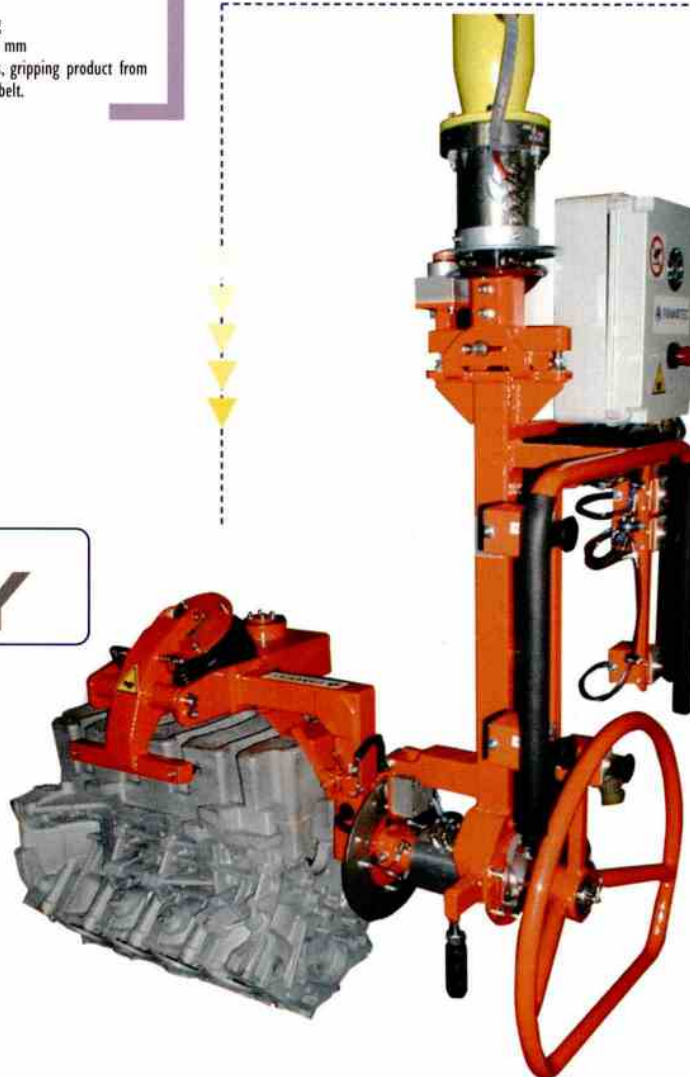
**Type:** VALIDUS  
**Max. loading weight:** 30 kg  
**Max. working radius:** 3000 mm  
**Working cycle:** by using gripper, gripping product from the assembly bench and releasing it on container.



## CORES

**Type:** ADIUTOR  
**Max. loading weight:** 30 kg  
**Max. working radius:** 3000 mm  
**Working cycle:** by using forks, gripping product from truck and releasing it on conveyer belt.

# FOUNDRY



# TERMOTECHNICS



## WALL BOILERS

**Type:** ADIUTOR

**Max. loading weight:** 40 kg

**Max. working radius:** 3200 mm

**Working cycle:** by using vacuum grippers, gripping product from roller and then releasing it on the pallet with finished products.



## GAS BOILERS

**Type:** VALIDUS

**Max. loading weight:** 80 kg

**Max. working radius:** 2500 mm

**Working cycle:** by using shaped hooks, gripping product from packaging, releasing it on repair bench with a rotation 90°.



## CAST IRON BOILERS

**Type:** ADIUTOR

**Max. loading weight:** 200 kg

**Max. working radius:** 3200 mm

**Working cycle:** by using forks, gripping product from roller and then releasing it on the floor.



## CAST IRON BOILERS BODIES

**Type:** ADIUTOR  
**Max. loading weight:** 250 kg  
**Max. working radius:** 2600 mm  
**Working cycle:** by using shaped hooks, gripping product from roller and then releasing it on pallet for packaging



## LAMELLAR PARCELS

**Type:** ADIUTOR  
**Max. loading weight:** 60 kg  
**Max. working radius:** 3500 mm  
**Working cycle:** by using pneumatic gripper, gripping product from pallet and then releasing it on packing machine.



## HEAT EXCHANGERS

**Type:** ADIUTOR  
**Max. loading weight:** 40 kg  
**Max. working radius:** 3900 mm  
**Working cycle:** by using vacuum grippers, gripping product from the robotized welding machine, manual rotation 180°, releasing product on roller.



## BOILER

**Type:** ADIUTOR ON BASEPLATE  
**Max. loading weight:** 30 kg  
**Max. working radius:** 4000 mm  
**Working cycle:** by using vacuum grippers, gripping product from roller and placing it inside the packaging; then, by using gripper, gripping the packaged product, rotate it 90° pneumatically and then releasing product on pallet.









# CHEMISTRY

## CHEMISTRY

### SACKS

**Type:** ADIUTOR  
**Max. loading weight:** 50 kg  
**Max. working radius:** 3500 mm  
**Working cycle:** by using vacuum grippers, gripping product from pallet and releasing it on conveyor; gripping tooling is equipped with an anti-release device and with a device allowing the operator to continue handling cycle even in the case of electric energy lack.



### DRUMS

**Type:** ADIUTOR  
**Max. loading weight:** 100 kg  
**Max. working radius:** 3000 mm  
**Working cycle:** by using gripper, gripping product from pallet and emptying progressively.

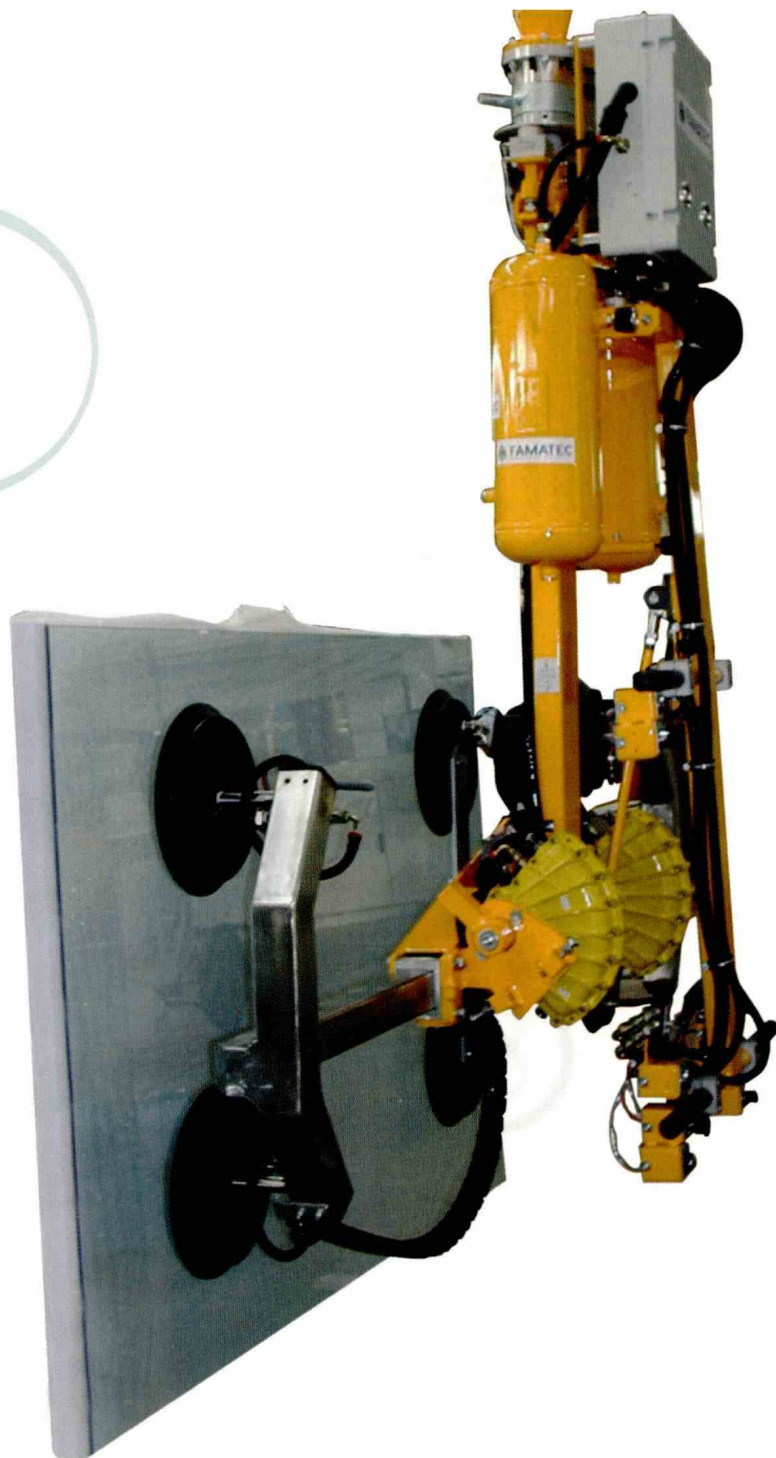


### OIL DRUMS

**Type:** VALIDUS  
**Max. loading weight:** 35 kg  
**Max. working radius:** 2300 mm  
**Working cycle:** by using hook, gripping product from roller and then releasing it on pallet.



# GLASS



## DOOR PLATE-GLASS

**Type:** ADIUTOR  
**Max. loading weight:** 80 kg  
**Max. working radius:** 3000 mm  
**Working cycle:** by using vacuum grippers, gripping product from container at a great depth, manual rotation 90°, releasing it inside the frame placed on assembly bench.

## GLASS SHEETS

**Type:** ADIUTOR  
**Max. loading weight:** 130 kg  
**Max. working radius:** 3500 mm  
**Working cycle:** by using vacuum grippers, gripping product from truck, incline product 90° pneumatically and releasing it on the roller supplying the grinding robot.







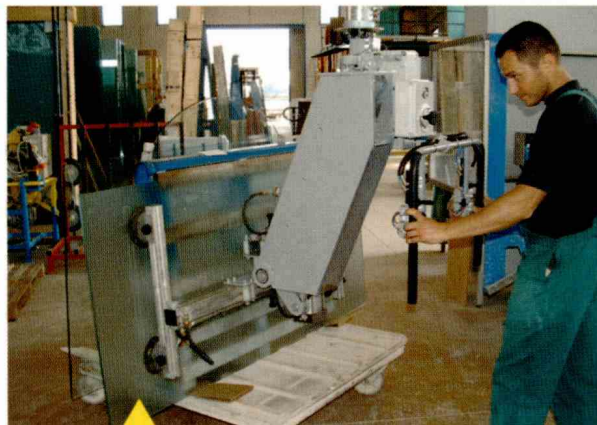
## CONTINUOUS FAÇADE GLASS

**Type:** ADIUTOR

**Max. loading weight:** 100 kg

**Max. working radius:** 3200 mm

**Working cycle:** by using grippers, gripping product from truck, pneumatic inclination 90°, releasing product on the frame placed on the bench; when the assembly operations finish, gripping the finished product again and releasing it on truck.



## MOVABLE WALL GLASS

**Type:** ADIUTOR

**Max. loading weight:** 120 kg

**Max. working radius:** 3500 mm

**Working cycle:** by using vacuum grippers, gripping product from stand, pneumatic inclination 90°, releasing product on grinding position; when the operation finishes, gripping glass again, pneumatic rotation 90° and releasing product for grinding the other sides.



## GLASS SHEETS

**Type:** ADIUTOR

**Max. loading weight:** 300 kg

**Max. working radius:** 3000 mm

**Working cycle:** by using vacuum grippers, gripping product from stand, incline product 90° pneumatically and releasing it on the flanging machine.



## GLASS SHEET FOR TOILET FITTINGS

**Type:** ADIUTOR

**Max. loading weight:** 80 kg

**Max. working radius:** 3500 mm

**Working cycle:** by using vacuum grippers, gripping product from truck, overturn product 180° pneumatically, releasing product on drilling machine.

## DOORS AND WINDOWS GLASS

**Type:** ADIUTOR

**Max. loading weight:** 80 kg

**Max. working radius:** 3000 mm

**Working cycle:** by using vacuum grippers, gripping product from truck, incline product 90° pneumatically and releasing it on the frame placed on the assembly line.





# OTHER APPLICATIONS



## NYLON COILS

**Type:** ADIUTOR  
**Max. loading weight:** 100 kg  
**Max. working radius:** 3500 mm  
**Working cycle:** by using central peg, gripping product from roller and releasing it on pallet.

## NYLON ROLLS

**Type:** ADIUTOR  
**Max. loading weight:** 200 kg  
**Max. working radius:** 3200 mm  
**Working cycle:** by using expansion mandrel, gripping product from bench, pneumatic inclination 90°, releasing product on pallet.



## TNT ROLLS

**Type:** ADIUTOR  
**Max. loading weight:** 200 kg  
**Max. working radius:** 3600 mm  
**Working cycle:** by using jaw grippers, gripping product from winding machine, incline product 90° pneumatically and releasing it on pallet.



## PAPER MONEY PARCELS

**Type:** VALIDUS

**Max. loading weight:** 30 kg

**Max. working radius:** 2300 mm

**Working cycle:** by using rectangular vacuum gripper, gripping product from belting machine and releasing it on pallet.



## HIGH DENSITY POLYURETHANE BLOCKS

**Type:** ADIUTOR

**Max. loading weight:** 200 kg

**Max. working radius:** 3400 mm

**Working cycle:** by using vacuum grippers, gripping product from the floor, incline it 90° pneumatically and loading to cutting machine roller.

## SHEET OF PAPERS

**Type:** HABILE ON BRIDGE CRANE

**Max. loading weight:** 35 kg

**Working cycle:** by using gripper, gripping product from conveyor belt and releasing it on pallet.



## BATHTUBS

**Type:** ADIUTOR

**Max. loading weight:** 40 kg

**Max. working radius:** 4000 mm

**Working cycle:** by using vacuum grippers, gripping product from trimmer and releasing it on pallet.





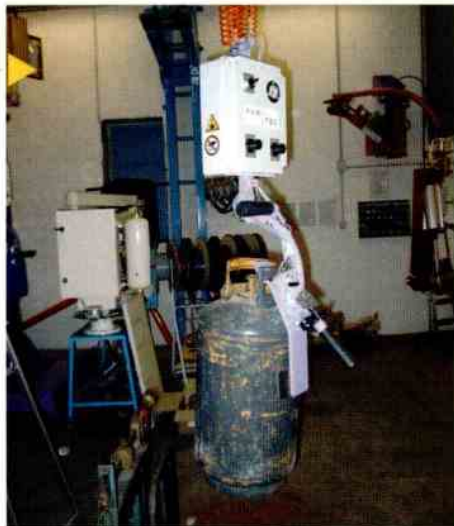
## LPG CYLINDERS

**Type:** VALIDUS

**Max. loading weight:** 25 kg

**Max. working radius:** 2300 mm

**Working cycle:** by using shaped hook, gripping product from the filling position and releasing it on container.



## PAINTING FRAMES

**Type:** ADIUTOR

**Max. loading weight:** 150 kg

**Max. working radius:** 3000 mm

**Working cycle:** by using shaped hook, gripping product from the filling position and releasing it on container.

## REFRACTORIES

**Type:** ADIUTOR

**Max. loading weight:** 100 kg

**Max. working radius:** 2800 mm

**Working cycle:** by using shaped forks, gripping product from trolley and releasing it on container.



## DOORS AND WINDOWS

**Type:** ADIUTOR

**Max. loading weight:** 120 kg

**Max. working radius:** 3000 mm

**Working cycle:** by using vacuum grippers, gripping product from roller, incline it 90°, placing it on packaging machine; then, by using shaped forks, gripping the packaged door or window and releasing it on truck.



## HARDWARE

**Type:** VALIDUS

**Max. loading weight:** 50 kg

**Max. working radius:** 2500 mm

**Working cycle:** by using jaw grippers, gripping product from roller and inserting it in rack cabinets.





## CHEESE

**Type:** VALIDUS  
**Max. loading weight:** 45 kg  
**Max. working radius:** 2300 mm  
**Working cycle:** by using gripper, gripping product from the suspension line, incline it 90° pneumatically and releasing product on truck.



## WEIGHT SAMPLES FOR CALIBRATION

**Type:** VALIDUS  
**Max. loading weight:** 45 kg  
**Max. working radius:** 2300 mm  
**Working cycle:** by using shaped fork, gripping product from container and releasing it on precision balance.



## DESTROYING TOOL

**Type:** VALIDUS  
**Max. loading weight:** 45 kg  
**Max. working radius:** 2300 mm  
**Working cycle:** Demolisher suspended from the manipulator; rotation available during the handling operation.

# OTHER APPLICATIONS

## VIDEO

**Type:** ADIUTOR  
**Max. loading weight:** 125 kg  
**Max. working radius:** 2800 mm  
**Working cycle:** by using fork, gripping product from roller and releasing it on pallet.





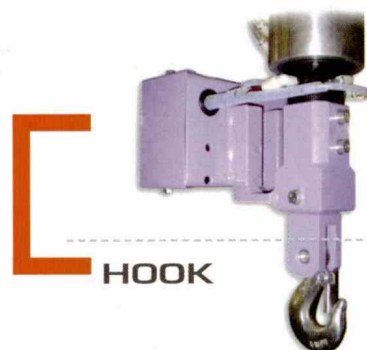
**VACUUM GRIPPERS**

- ▶ The manipulator can't proceed and insert load balance position until empty-sufficient and requested to the safety has been reached. (Each time before gripping, empty value is controlled).
- ▶ The gripping tooling is equipped with releasing bi-command push-buttons: only acting on the bi-command push-buttons simultaneously the manipulator will proceed gripping. Bi-command push-buttons for releasing are linked to an efficient anti-release system to ensure handling with maximum safety. A special gripper device ensures that the tooling will not release the product until it has been placed onto a stable surface.
- ▶ The manipulator is equipped with a safety valve designed and developed by FAMATEC to control the speed of movements up and down in case of operator error.

- ▶ The gripping tooling is equipped with bi-command for gripping and releasing to ensure handling with maximum safety. Gripping and releasing operations are carried out by acting simultaneously on the two relevant push-buttons.
- ▶ Bi-command push-button for releasing is linked to an efficient anti-release system to ensure handling with maximum safety. Gripper will not release the product until it has been placed onto a stable surface.
- ▶ The manipulator is equipped with a safety valve designed and developed by Famatec to control the speed of movements up and down in case of operator error.



**GRIPPER OR MANDREL**



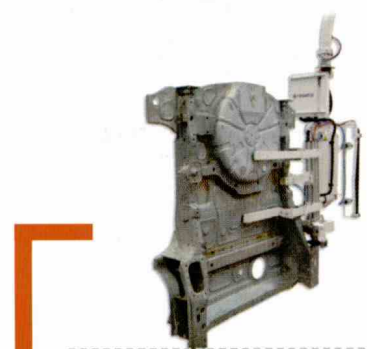
**HOOK**

- ▶ The manipulator is equipped with a safety valve designed and developed by Famatec to control the speed of movements up and down in case of operator error.

- ▶ Manipulator can't proceed and insert load balanced condition until the magnet has been gripped correctly. (The balanced position can't be inserted for instance if thickness of load is too small or the gripping surface is not sufficient)
- ▶ Bi-command push-button for releasing is linked to an efficient anti-release system to ensure handling with maximum safety. A special device ensures that the tooling will not release the product until it has been placed onto a stable surface.
- ▶ The manipulator is equipped with a safety valve designed and developed by Famatec to control the speed of movements up and down in case of operator error.



**MAGNET**



**FORKS OR SHAPED HOOKS WITH A RELEVANT SENSOR**

- ▶ The manipulator can proceed and insert load balanced condition only if the sensor of product's presence has been activated.
- ▶ Efficient anti-release system to ensure handling with maximum safety. The particular shape of forks ensures a perfect gripping.
- ▶ The manipulator is equipped with a safety valve designed and developed by Famatec to control the speed of movements up and down in case of operator error.





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**FAMATEC**  
pneumatic manipulators



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