At Piab we evolve automation, creating sustainable solutions for a safer and more efficient workplace in an automated world.

We provide gripping skills to robots for all industries, whether you are picking complete layers, partial layers, single parts or mixed parts, and no matter if you handle cartons, cans, wrapped products, wood, bricks, bags, plastic, etc., our gripping technologies have it covered.

Our offering spans from configurable standards to fully customized gripping solutions and our Joulin, Kenos and Piab combined portfolios can provide you with just the right solution for your needs. With engineering and production capabilities in multiple locations around the world we have the possibility to serve you locally as well as globally.
**Standard range**

**Technology**

- **CHECK VALVES (VG/CV)**
  - Independent check-values system

- **PISAVE SENSE (PS)**
  - Multiple port fittings

- **FLOW RESTRICTION (PG/FR)**
  - Calibrated orifice adjustments

- **FOAM VALVES (FV/CJ)**
  - Diffused vacuum in the full surface of the products

- **BAG GRIPPER (BG)**
  - Perimetrical seal

- **FLOW REVERSER**
  - The flow reverser helps for a quick release of light products. It sends air or vacuum inside the the gripper.

**Vacuum generation**

- **PIAVEJECTORS**
  - The internal vacuum supply is generated by Venturi ejectors integrated on the gripper.

**Pick & place / cobot solutions**

- **KFG / FLEXIGRIP**
  - With integrated or external vacuum generation, it will be the solution for your pick & place applications. Easily adjustable and evolutive.

- **PICOBOT**
  - Designed for deployment with small industrial robots but also safe for collaborative applications.

- **KBL / SAFE & LIGHT**
  - The COBOT gripper. Naturally adapted for collaborative application with the foam body. Safe&Light lift up to 20 times its weight.

- **KCS**
  - The KCS gripper is equipped with integrated cartridges for handling different sized sealed or leaking objects with the same lifting device.

**Aluminum extrusion**

- **KVG-F**
  - The KVG grippers can be equipped with integrated vacuum generation or suitable for separated vacuum generation.

- **KSV-C**
  - The material of the KVG gripper (cups) is made of a specially developed material that features the elasticity of rubber and wear resistance of polyurethane - DURAFLEX®.

**Product dedicated**

- **KSG**
  - The KSG is designed and capable to handle heavy sacks in different materials, shapes and weight.

- **KIC**
  - Especially dedicated to the handling of flow packs, food bags and small sacks; it is quite efficient for fast and safe liquid bags handling.

**Palletizing**

- **KVGL-5**
  - This gripper allows for superior gripping on different types of boxes, wrap around packaging and primary ones.

- **KVGL-CJ**
  - This vacuum gripper handles cans and jars, typical industrial segments involved are palletizing or de-palletizing in packaging, beverage and food.

- **LUMBER GRIPPER**
  - The ideal gripper for wood handling. Not sensitive to dust.

- **EHD**
  - The new gripper for wood industry. Valve grippers with extended qualities thanks to heavy duty disk valves.

- **EGV**
  - For unit handling by rows or by layers.

- **EGB**
  - For unit handling by rows or by layers. Used with flow reverser or Blower Control Module.

**BLOWER CONTROL MODULE**

- Vacuum blower with standard module including breathing cylinder and safety vacuum valve.
Custom range

Benefits

We adapt to your needs

• Your dimensions
  Our grippers can be tailored to handle single or multiple objects through zoning of the grippers.

• Your products
  Our grippers can handle majority of materials and objects as well as turn them horizontally and/or vertically during the picking of the objects.

• Your operations
  Our grippers are designed to be durable and reliable as well as being easy to install and conduct maintenance on.

Custom specialists

We have thousands of successful applications in all the industries - wood, food, cosmetic, pharmaceutical, logistics and many more industries.

Our organization based on project engineers and sales managers guarantees a real consulting capacity, as well as the design and delivery of the most suitable solution within a nominal timeframe.

Versatile and rugged

According to your needs / dimensions

VERSATILE

Handling of your products, including slip sheets, pallets and many other operations can be done with the same tool.

YOUR DIMENSIONS

Round, square, rectangular or other - we customize the tool to your desired size.

ACCORDING TO YOUR REQUEST

Mechanical accessories like side clamps can be added to your need.

OUR SOLUTIONS

From the gripper alone to a complete plug & play solution.

ADAPTABLE

Usable on robot, gantry robot and even for a handling help.

RUGGED

Designed to work in unfriendly, challenging environments.

Custom range
Options

How to customize

**PNEUMATIC MODULE**

**ZONING**
Used for the release of partial layers according to precise palletizing schemes. Many versions available.

**BLOW-IN – BLOW-THROUGH**
Blows compressed air inside the gripper for a quick release of large layers. Blows compressed air through the gripper directly onto the products for quick release of slip sheets or lightweight products. With compressed air or with flow-reverser option (blower).

**PALLET HOOKS**
With rotating cylinders for a retractable assembly.

**Rotating Hook**
With rotating cylinders for a retractable assembly.

**Slip Sheets Picking**
By retractable or rotating cylinder for minimum bulk.

**Presence Detection**
M12 photo-electric proximity sensor or inductive proximity sensors. Ultrasonic sensors for a fast approach on the layers. Laser sensors for detecting layers.

**Clamps**
Supports products during acceleration. Layers conformation.

**Vacuum or Detection Sensors**
Presence detection: M12 photo-electric proximity sensor or inductive proximity sensor with plunger. Fast approach: Ultrasonic sensor detecting the layer.

**Rotating Connection**
Built on picking module or directly on the gripper.

**Anti-Collision System / Compliance**
Compensates layers deformations. Allows programming of heights of layers. Easy to install on robot.

**Robot Attachment**
Different versions available, fixed or mobile. Easy to install on robot. Allows to compensate layers deformation with the foam. Custom height possible.
Applications

Handling of plastic, steel, aluminum... containers
• Difficult or thick lids, significant difference in level between the center of the lid and the edge.
• Different sizes of products on the same line.
• Products wrapped under a heat-film.

• Handling of cartons, pallets and slip sheets.
• Partial, uneven layers.
• Multiple product dimensions.
• Products with flaps, glues or straps.
• Dusty environment.

Handling of glass jar layers.
• Picking / releasing of slip sheets.
• Different shapes and dimensions of products on the same application.
• Uneven layers.

Handling of plastic, steel, aluminum... containers
• Difficult or thick lids, significant difference in level between the center of the lid and the edge.
• Different sizes of products on the same line.
• Products wrapped under a heat-film.

• Palletizing or depalletizing layers of wrapped, packaged... products in the middle or end of production line.
• Uneven layers.
• Different sizes of products.
• Handling of slip sheets and pallets.

Building materials (bricks, cinderblocks, tiles...).
• Partial, uneven layers.
• Different sizes of products on the same line.
• Dusty environment.

Stacking or destacking of bags containing cement, shavings, pellets... by layer or by unit
• Several materials and filling
• Different sizes of bags
• Dusty environment.

Handling of boards, doors, furniture elements, parquet boards, chipboard...
• Different sizes of products.
• Uneven layers.
• Elements with openings, grooves, etc. randomly placed on the product.
• Dusty environment.

Whether your products are light or heavy, wrapped or inside a carton, packaged by units or layers, on a pallet or conveyor, dry or wet, we have the gripper that’s capable of handling it.

A complete range of standard grippers and the ability to design on request « custom » grippers allows us to provide you the most suitable solution.
From our industrial plants in France, Italy and the USA, we have supplied thousands of installations all over the world.

We Handle it All !

All products, all industries
Foams

Performance guaranteed

A suitable foam (porosity, elasticity, ...) is the guarantee of efficient economical handling (durability and maintenance costs).

Our expertise and cutting sites in Europe and the USA allow us to guarantee quality at the best price and the most efficient service. Our experience from multiple industries allows us to develop and produce the most suitable foam for your gripper and the products to be handled.

BENEFITS
• Different thicknesses
• Different patterns
• Better foam adhesive performance
• Different materials: EPDM, latex, silicone, ...
• Quick delivery

Standard or custom production

BENEFITS
• Different thicknesses
• Different patterns
• Better foam adhesive performance
• Different materials: EPDM, latex, silicone, ...
• Quick delivery

New ultra-quick foam changing system: EasyFoam

CONCEPT
• Fast and easy removal of foam from the gripper
• Easy to install on existing gripper(s)
• Reduces maintenance time and cost
• No adhesive to remove at foam change

BENEFITS
• Easy access to the gripper for maintenance and cleaning
• Can be removed/replaced an unlimited number of times
• Independent filter for dusty environments

EASY TO ADAPT
• Adaptable to all brands of existing grippers
• All foam styles / brands
• Easily clean and replace the filter by removing the magnetic foam

High quality adhesive foam
A partner at your side

We develop long-term relationships with our customers. Our agile organization and industrial sites in France, Italy and the USA allow us to adapt and answer to the specificities of your needs. Our values, practiced daily, are reliability, professionalism and proactivity.

The real right solution

We have the largest portfolio of products and technologies for vacuum grippers on the market. Working with us is the guarantee to get a real optimized solution as well as high level service all around the globe.
Robotic Gripping is also...

Modular EOAT components and mechanical EOAT solutions

Stacking – Destacking systems for all handling in wood industry

Reliability
60 years of experience
Thousands of projects in more than 80 countries

Proactivity
Dedicated Experts & Project Engineers
Online configurators

Proximity
Industrial sites in Europe and USA
Commercial presence in 100 countries

Do you want to know more?
Take a look at www.piab.com www.joulin.com

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Reliability
60 years of experience
Thousands of projects in more than 80 countries

Proactivity
Dedicated Experts & Project Engineers
Online configurators

Proximity
Industrial sites in Europe and USA
Commercial presence in 100 countries

Evolution automation

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