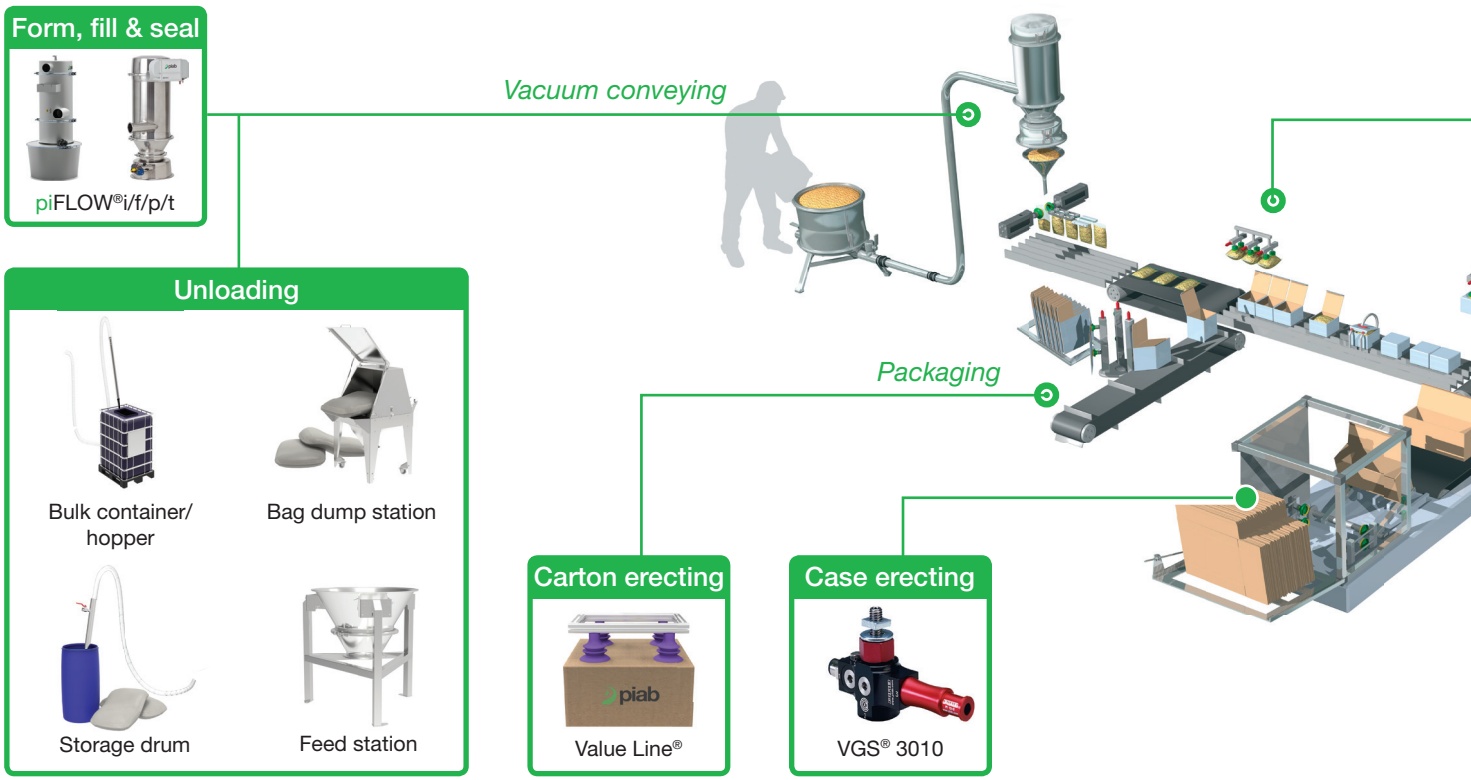
Kenos® Vacuum Gripping Systems

Realise productivity gains with innovative vacuum components

Your global supplier

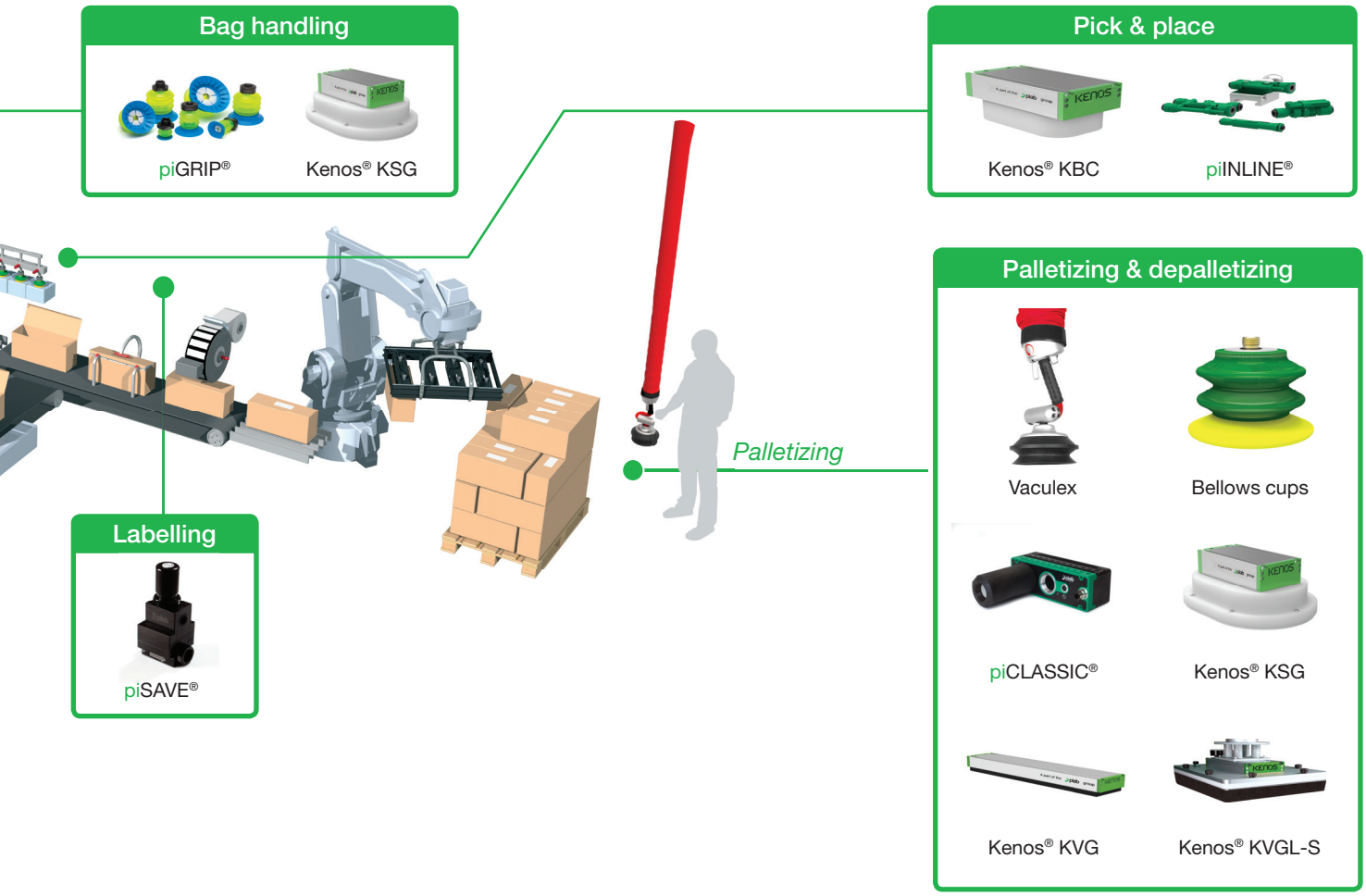
Optimize your production line with Piab



We offer a wide range of products to better support different products in different applications. Over the years we have built up an amazing application know-how on a global level.

- Kenos® Vacuum grippers are available in different shapes and forms to meet the demands of different applications. They can lift packaging, wood, cans and jars and many other products. Available with FDA approved foam, different porosities and different foam materials to better meet customer demands.
- With the suction cups, you can lift everything from thin sheet paper to metal sheets. As it is proven to have significantly higher lifetime as compared to the competition, it will increase productivity in the application. Available in FDA and EU 1935/2004 approved material and as detectable food cups.

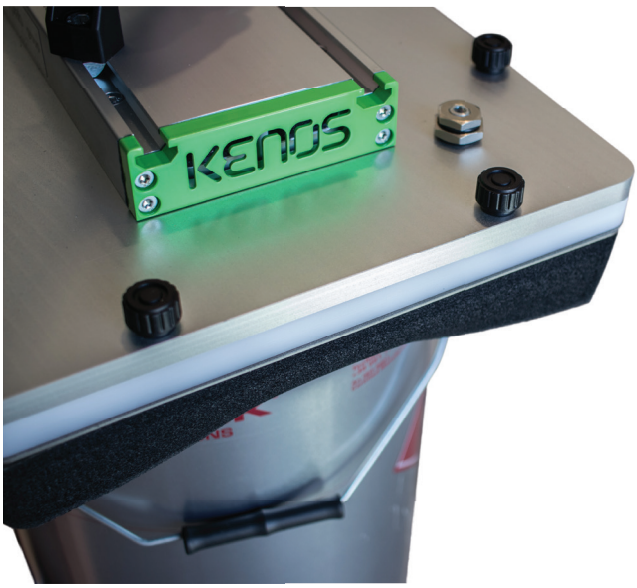
Specifications subject to change without notice.

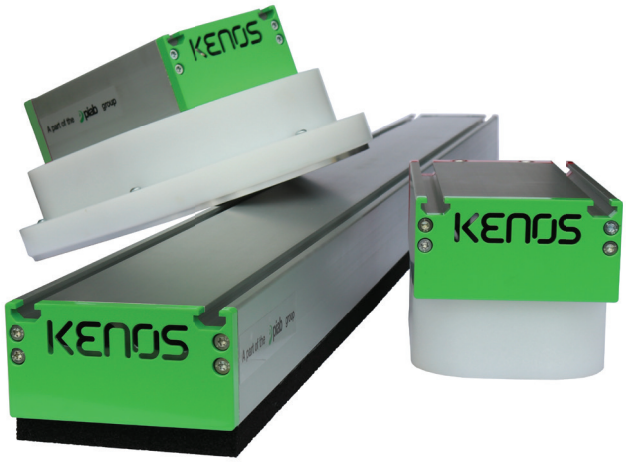


- The vacuum pumps are all based on COAX® cartridges. A vacuum system based on COAX® technology can provide you with three times more vacuum flow than conventional systems, allowing you to increase speed with high reliability while reducing energy consumption.
- The vacuum conveyors are also optimized by the application to prove the best solution within food, pharma and the chemical industries. With a small footprint, and an ability to contribute to an increase in uptime since the changeover time between different materials is kept to a minimum and the maintenance needed for the conveyor is very limited. ATEX, FDA and EU 1935/2004 certified.

Vacuum grippers and their great benefits

Kenos® Vacuum grippers are available in different shapes and forms to meet the demands of different applications.





- Easy to obtain a vacuum gripper especially **optimized for your application**. Different product families are developed for different applications e.g. heavy duty, sack applications, packaging, cans and jars and many more.
- **Flexible solution** for handling several products with different shapes and dimensions.
- **Minimize maintenance time**, the foam only takes a few minutes to replace with new and ready to run in production again.
- Wide application span as there is **FDA approved foam** to choose on.
- **Minimize your design time** as you can, with the online configurator, build according to your own needs and receive all the documentation with a click.

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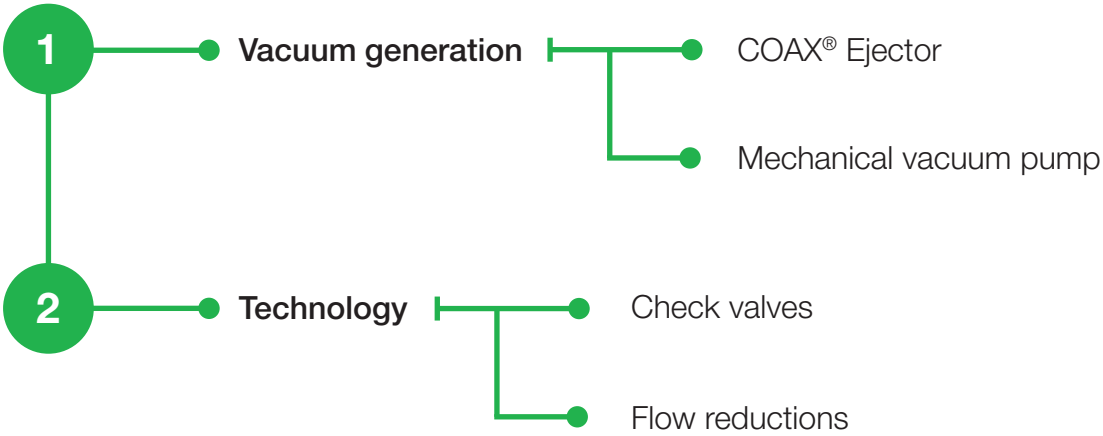
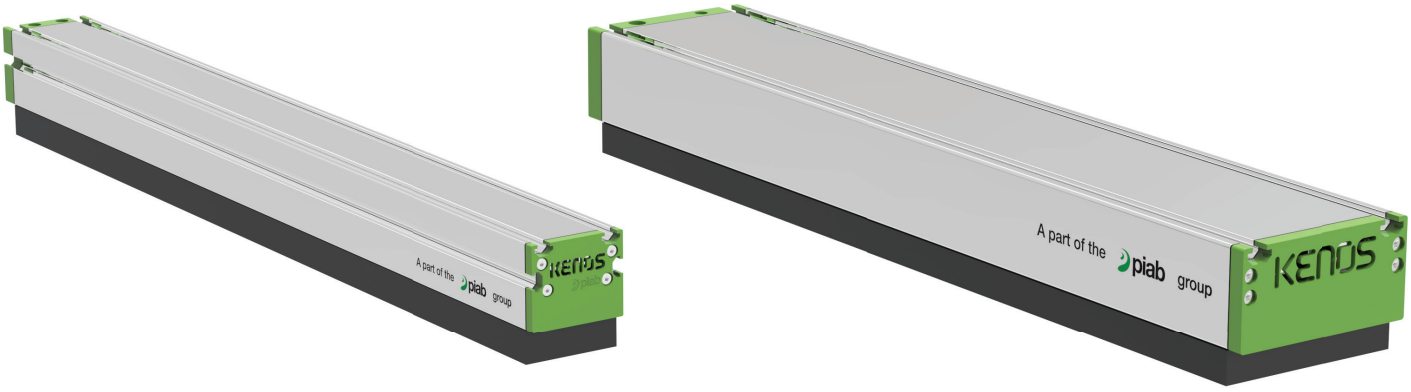
How to build a Kenos® Vacuum gripping system



This illustrates the flexibility with the Kenos® Vacuum gripping system. You can choose between using the COAX® ejector to generate vacuum or a mechanical vacuum pump. The COAX® is integrated in the gripper and is a multi-stage COAX® ejector of easy maintenance. The multi-stage COAX® ejector offers the possibility to add cartridges in a very simple way even after the installation, if necessary. Then the choice is between which technology to use, check valves or flow reductions depending on the final application.

Kenos® Vacuum Gripper – KVG

KVG series represents a flexible solution for the handling manipulation of several products with different shapes, dimensions and compactness due to the double technology available.

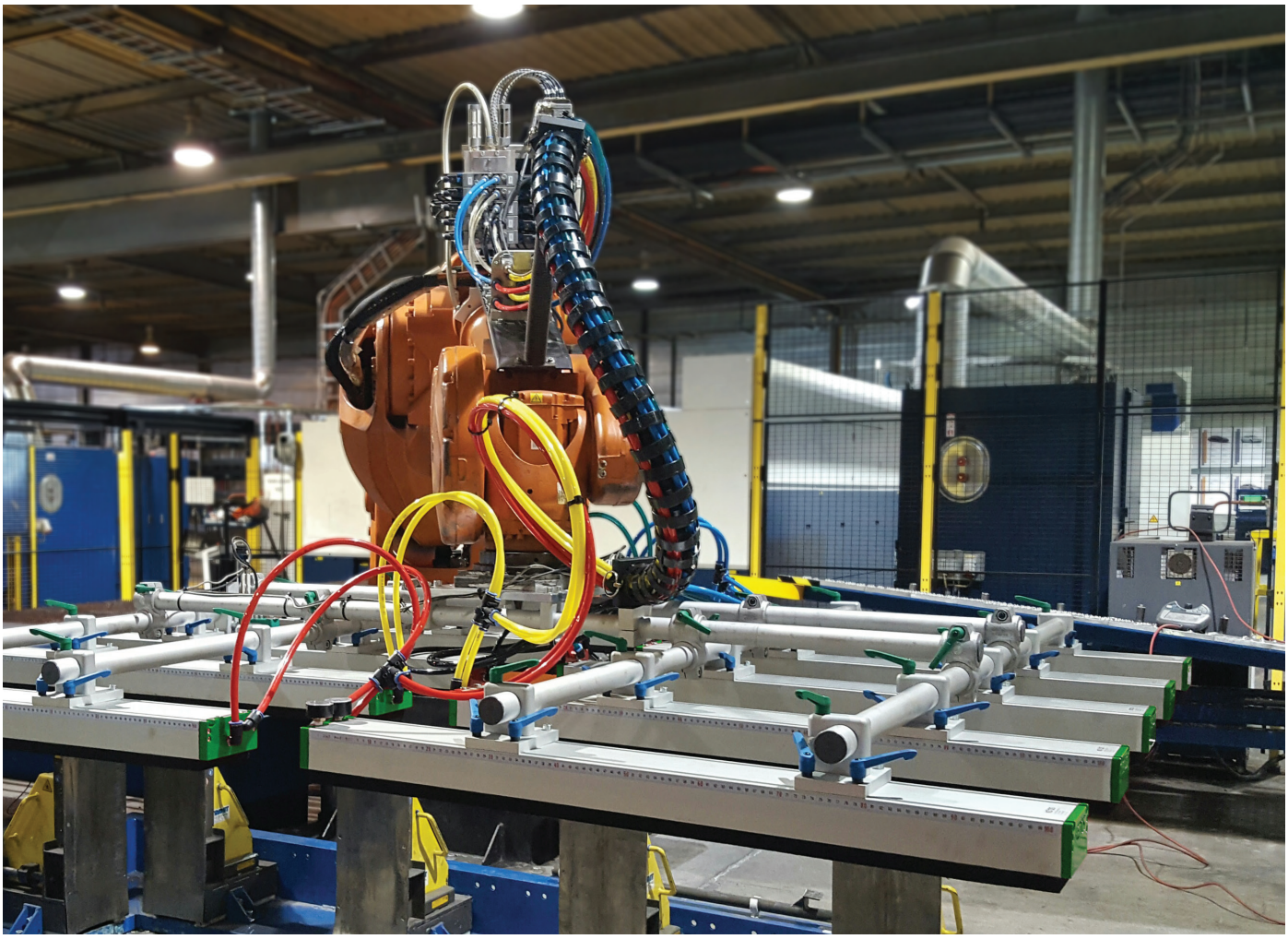


Different type of patterns of the foam

- Check valves or flow reducers can fulfil the needs of many industrial sector applications. The KVG gripping system can be equipped with integrated vacuum generation or suitable for separated vacuum generation (Pump or Side channel blower).
- The integrated vacuum generator is a multi-stage COAX® ejector of easy maintenance. The multi-stage COAX® ejector used offers the possibility to be simply increased even after the installation if necessary.
- The technical foam is made with different material, opening patterns and thicknesses. There is EPDM foam as a good closed cell sponge rubber material or Silicone foam engineered for high performance applications with high durability.
- The KVG gripping system is made of a technical foam (FDA mat approved available), with different pitch patterns, thickness or with suction cups.
- There are three different pitches available. See picture above.
- Configurable on **www.piab.com** with all documentation available at your hands (Datasheet, manual and CAD).

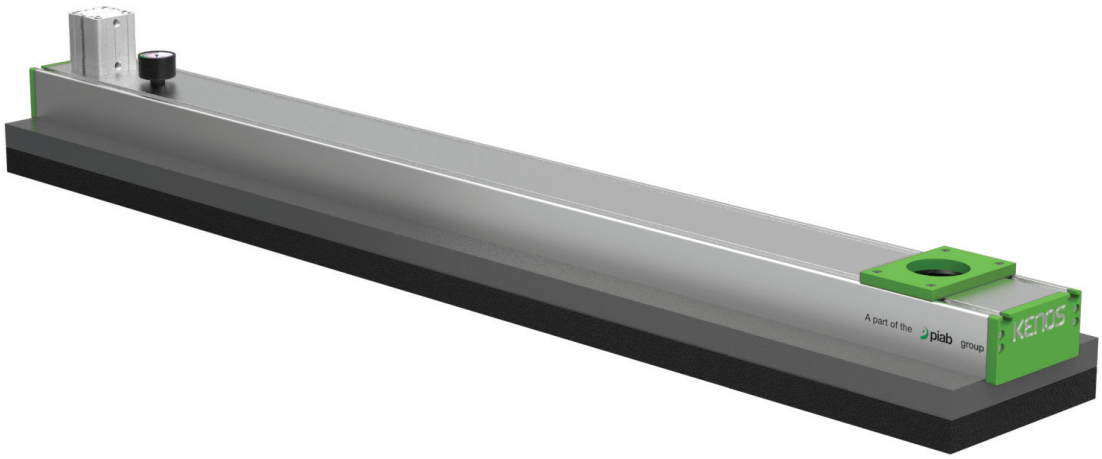
Specifications subject to change without notice.

Typical applications are palletizing, wood, metal sheets and packaging with irregular surfaces.



Kenos® Heavy Vacuum Gripper – KHVG

KHVG series products, Kenos® Heavy Vacuum Gripper, are designed for heavy duty applications in the wood and stone industries.



- The KHVG system can be used with side channel blowers as external vacuum generator.
- Provided with shutter check valve technology with low sensibility to the dust.
- Configurable on **www.piab.com** with all documentation available at your hands (Datasheet, manual and CAD).

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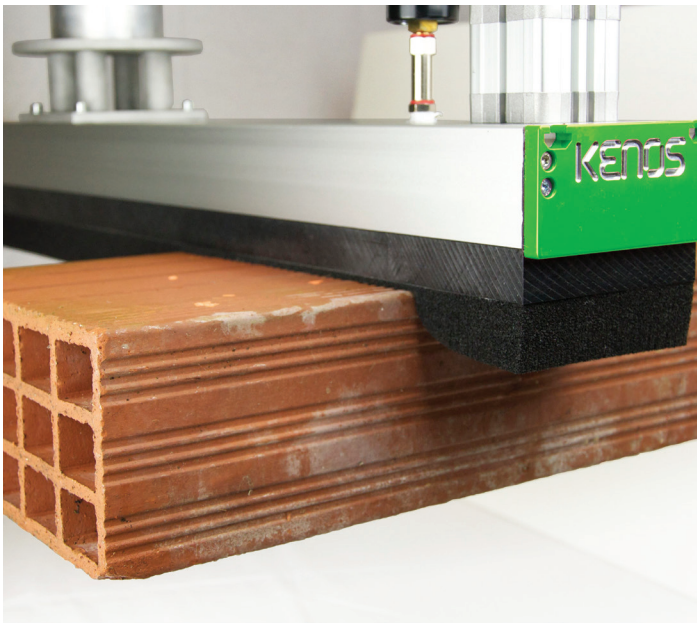
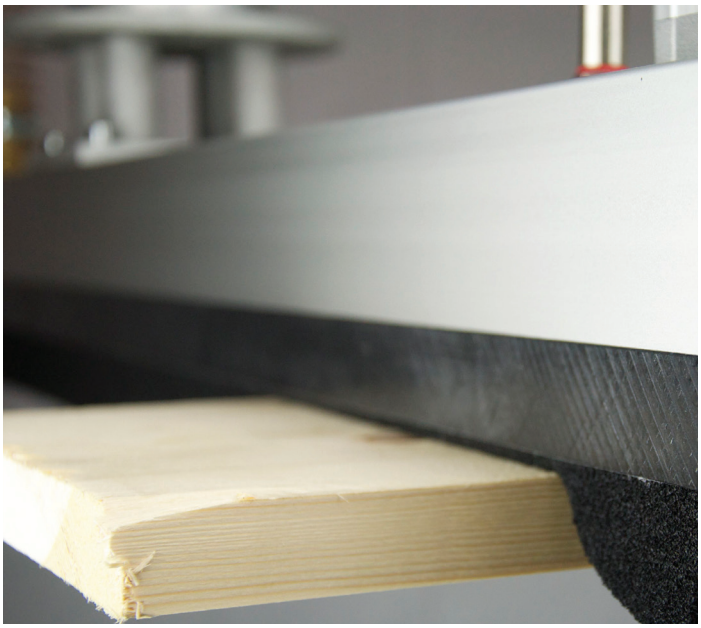
KHVG gripping systems are suitable for handling normally complete layers of sawn timber, heavy planking, raw wood and materials for building, such as bricks. They are also useful to handle very long and arcuate workpieces.





Kenos® Sack Gripper – KSG

The specific know-how in this segment has led to a system dedicated to all the different applications of sack handling. Are suitable to handle sacks up to 50Kg (110 lb.)

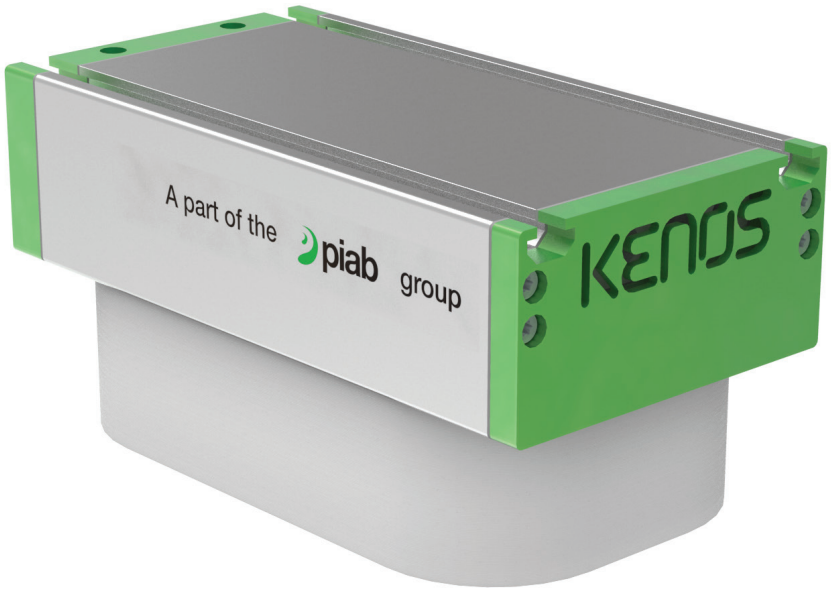
- The integrated vacuum generator is a multi-stage COAX® ejector of easy maintenance. The multi-stage COAX® ejector used offers the possibility to be simply increased even after the installation if necessary.
- As an alternative, the KSG system can be used with external vacuum generation with side channel blower.
- Configurable on **www.piab.com** with all documentation available at your hands (Datasheet, manual and CAD).

Specifications subject to change without notice.

Typical applications, sacks with different quality and content.

Kenos® Bag Cup – KBC

KBC series products, Kenos® Bag Cup, born from the need of handling in the food industry and handling liquid bags. KBC is also suitable with flow pack applications.



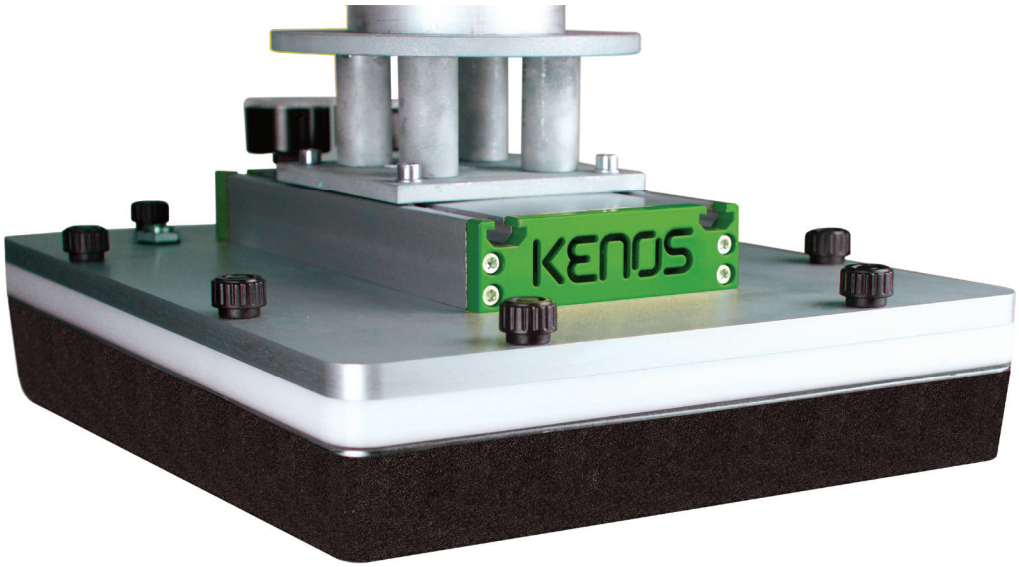
- Integrated COAX® vacuum cartridge gives the module flexibility.
- A version for external vacuum generation is available.
- A side channel blower is used when the application condition suggests it.
- Unique characteristic of KBC is the absence of any rubber sealing lip that offers a great advantage to customer: No spare parts needed! No machine stop for maintenance!
- Configurable on **www.piab.com** with all documentation available at your hands (Datasheet, manual and CAD).

Specifications subject to change without notice.

Kenos® Bag Cup series is suitable for liquid bags such as infusion bags, wine, sauces and flow packs.

Kenos® Vacuum Gripper Layer – KVGL-S

Developed for the world of packaging and line automation.



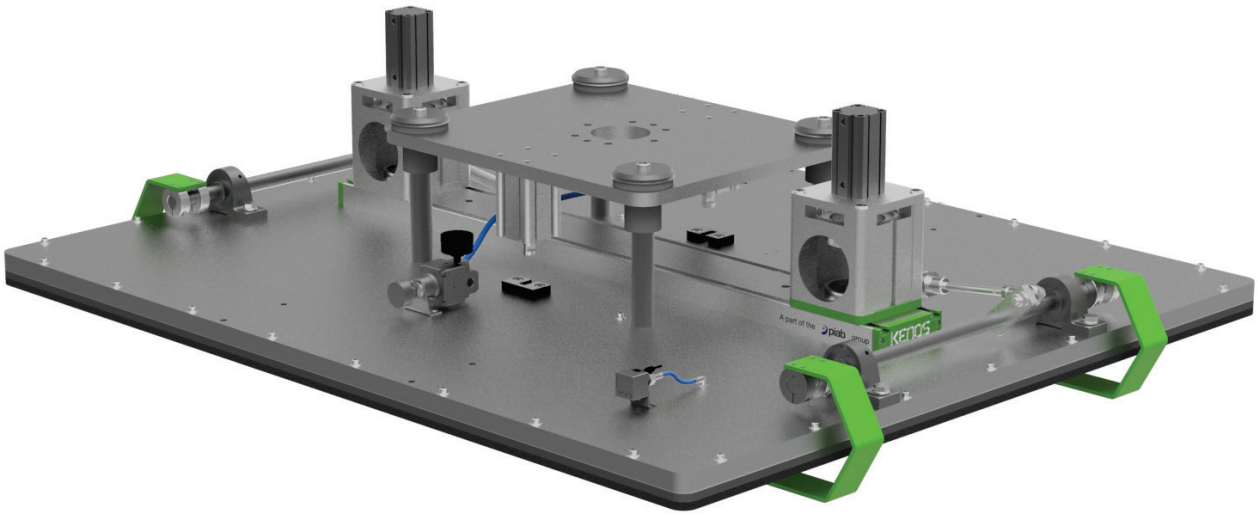
- Adjustable check valve technology and the technical foam is availabe in 10, 20, 30 and 40mm thickness which allows for superior gripping on different kind of boxes, wrap around packaging and primary ones.
- The large availability of standard dimensioning and the modularity, make this series highly effective.
- Configurable on **www.piab.com** with all documentation available at your hands (Datasheet, manual and CAD).

Specifications subject to change without notice.

Kenos® Vacuum Gripper Layer – KVGL-S is suitable for different kind of boxes, wrap around packaging and primary ones.

Kenos® Vacuum Gripper Layer-Cans/Jars – KVGL-CJ

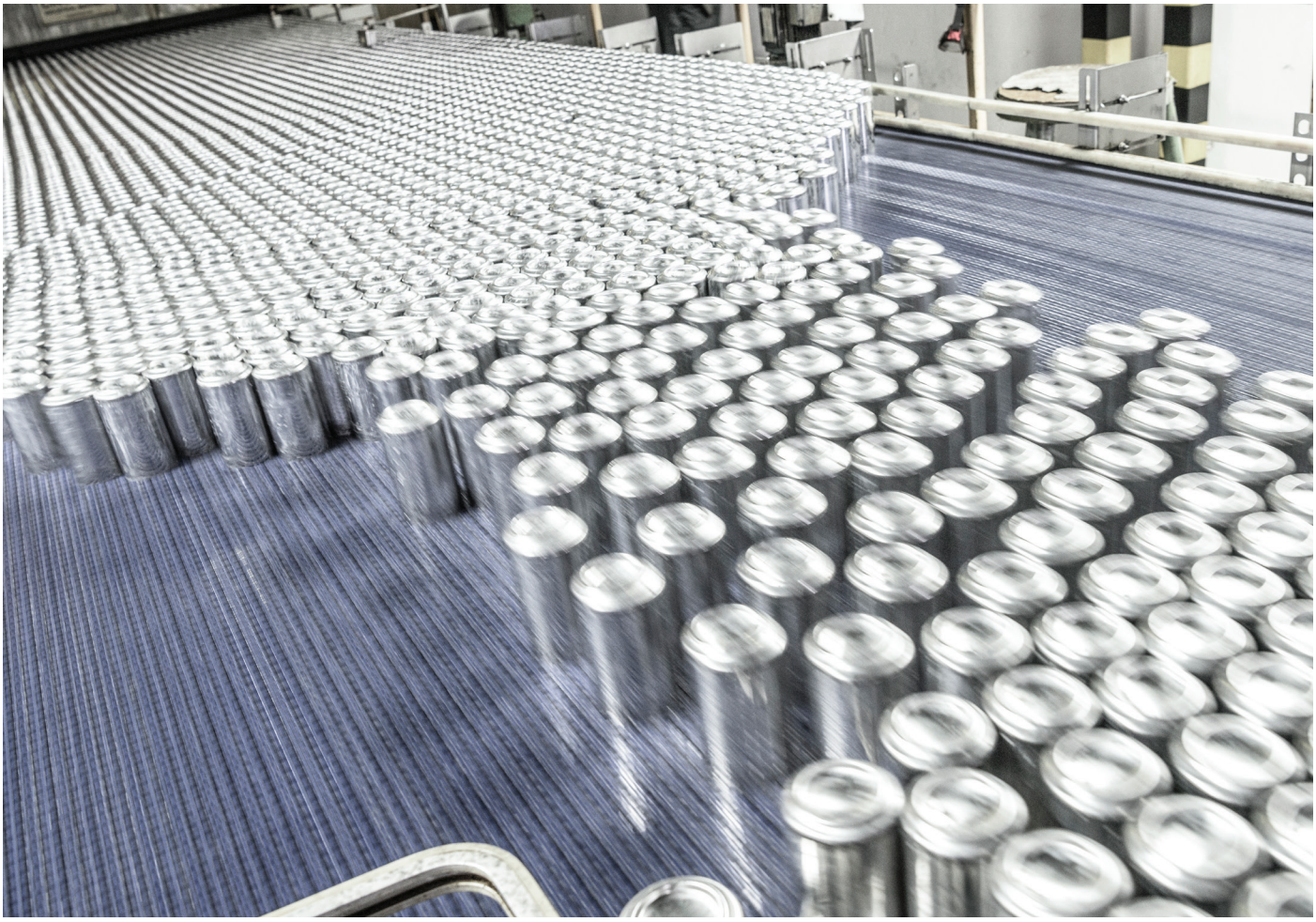
KVGL-CJ series, Kenos® Vacuum Layer – Cans Jars, born for the need to handle the complete layer of cans and jars that can be open or covered on the gripping area.

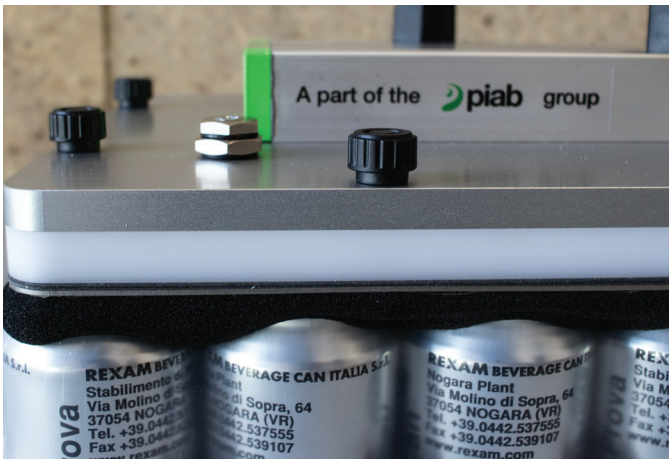


- Typical industrial segments involved are palletizing or de-palletizing in packaging, beverage and food.

Specifications subject to change without notice.

Kenos® Vacuum Gripper Layer-Cans/Jars – KVGL-CJ is suitable for different kind of boxes, wrap around packaging and primary ones.

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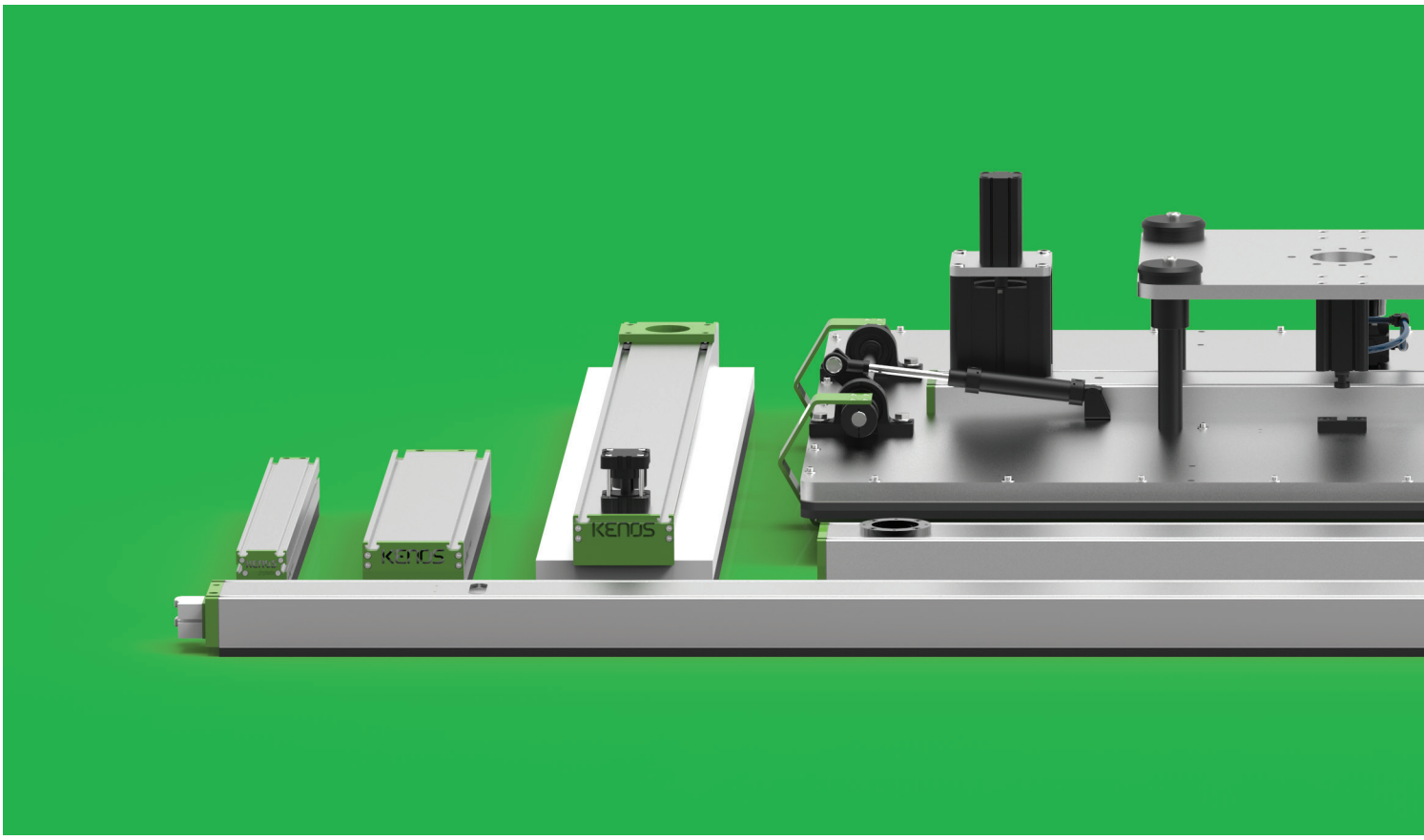
REXAM BEVERAGE CAN ITALIA S.r.l.
Via Molino di Sopra, 64
37054 NOGARA (VR)
Tel. +39.0442.537555
Fax +39.0442.539107
www.rexam.com

KENOS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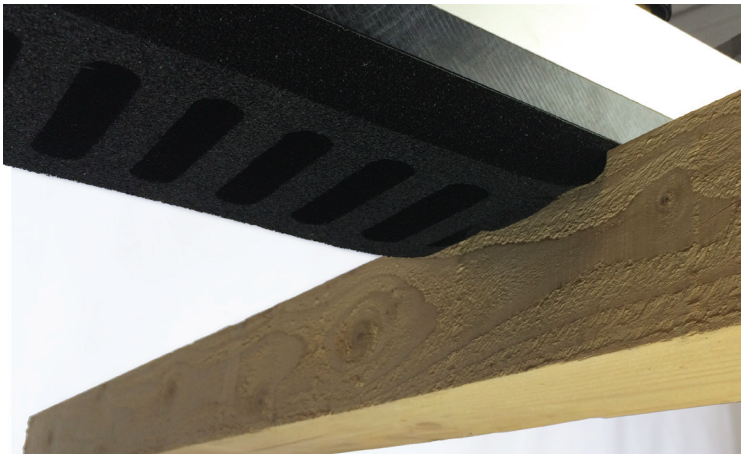

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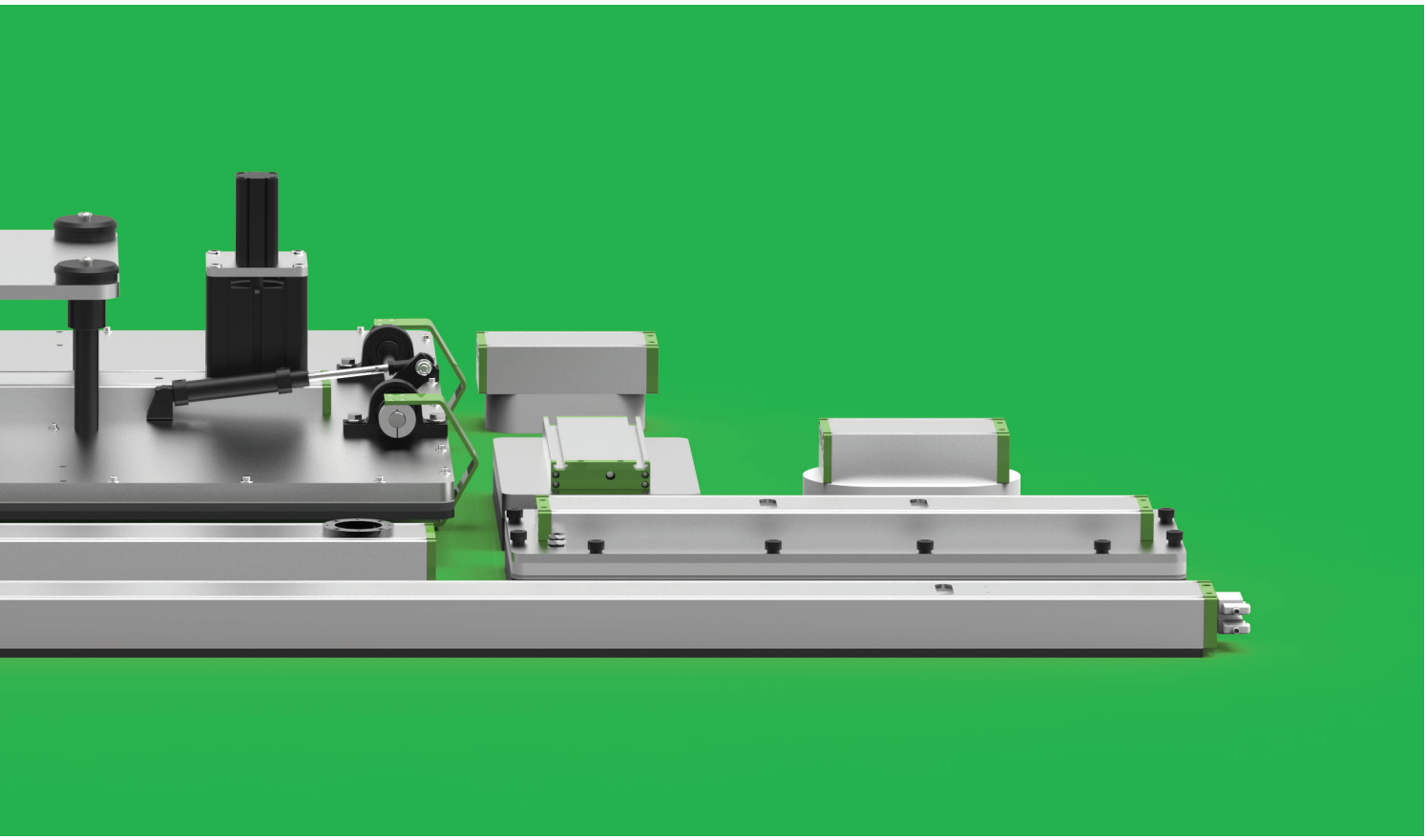

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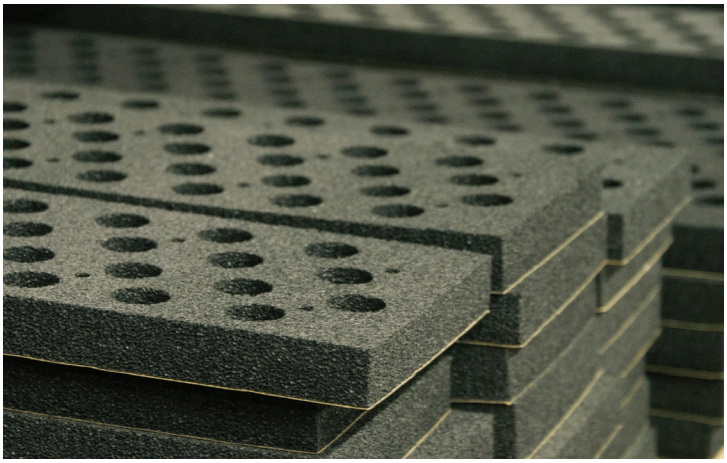

AMERICAS

BRAZIL

Regional office South America

Piab do Brasil Ltda.

R. Capitão Joaquim da Silva Rocha, 50
Jardim Ana Maria
BR-13208-750 JUNDIAI – SP
Phone: +55 11 4492 9050
Fax: +55 11 4522 4066
Email: info-brasil@piab.com

MEXICO

Piab Mexico & Central América

65 Sharp Street
HINGHAM MA 02043 US
Phone: +1 781 337 7309
Fax: +1 781 337 6864
Email: info-mxca@piab.com

USA/CANADA

Regional office North America

Piab USA, Inc.

65 Sharp Street
HINGHAM MA 02043 US
Phone: +1 781 337 7309
Fax: +1 781 337 6864
Email: info-usa@piab.com

Vaculex – division of Piab

605 Phillip Davis Drive, Suite 1,
CHARLOTTE NC 28217 US
Phone: +1 704 527 5052
Email: info.us@vaculex.com

ASIA

CHINA

Piab (Shanghai) Co., Ltd

Unit 401, Blk B1, No. 6000 Shenzhuan Rd
Songjiang District
CN-201619 SHANGHAI
Phone: +86 21 5237 6545
Fax: +86 21 5237 6549
Email: info-cn@piab.com

INDIA

Piab Vacuum Technology Pvt. Ltd

Plot no 11/C8, 11th block,
Mugappair East,
IN-600 037 CHENNAI
Phone: +91 9444 25 36 48
Email: info-india@piab.com

JAPAN

Piab Japan Ltd.

8-43-17 Tateishi Katsushika-ku,
JP-124-0012 TOKYO
Phone: +81 3 6662 8118
Fax: +81 3 6662 8128
Email: info-japan@piab.com

SINGAPORE

Regional office Asia Pacific

Piab Asia Pte Ltd

4008 Ang Mo Kio Ave 10
03-16 Techplace 1
SG-569625 SINGAPORE
Phone: +65 6455 7006
Fax: +65 6455 0081
Email: info-singapore@piab.com

EUROPE

FRANCE

Piab

Parc d'entreprises L'Esplanade
10 rue Enrico Fermi
Saint-Thibault des Vignes
FR-77462 LAGNY SUR MARNE Cedex
Phone: +33 1 6430 8267
Fax: +33 1 6430 8285
Email: info-france@piab.com

GERMANY

Regional office Europe

Piab Vakuum GmbH

Otto-Hahn-Str. 14
DE-35510 BUTZBACH
Phone: +49 6033 7960 – 0
Fax: +49 6033 7960 – 199
Email: info-germany@piab.com

ITALY

Piab Italia Srl

Via Cuniberti, 58
IT-10151 TORINO
Phone: +39 011 226 36 66
Fax: +39 011 226 21 11
Email: info-italy@piab.com

Piab Italia (Kenos)

Via del Commercio, 3
IT-35036 MONTEGROTTO TERME (PD)
Phone: +39 049 8741384
Fax: +39 049 7966906
Email: info-kenos@piab.com

POLAND

Piab Polska Sp. z o.o.

Ul. Astronomow 1
PL-80-299 GDANSK
Phone: +48 58 785 08 50
Fax: +48 58 785 08 51
Email: info-poland@piab.com

SPAIN

Vacío Piab, S.L.

Avda. Pineda, 2
CASTELLDEFELS
ES-08860 BARCELONA
Phone: +34 93 6333876
Fax: +34 93 6380848
Email: info-spain@piab.com

SWEDEN

Head office

Piab AB

Box 4501
SE-183 04 TÄBY
Phone: +46 8 630 25 00
Fax: +46 8 630 26 90
Email: info-sweden@piab.com

Vaculex – division of Piab

Aminogatan 20
SE-431 53 MÖLNDAL
Phone: +46 31 67 01 00
Fax: +46 31 67 01 10
Email: info@vaculex.com

UNITED KINGDOM

Piab Ltd.

Unit 7 Oaks Industrial Estate
Festival Drive
LOUGHBOROUGH LE11 5XN
Phone: +44 1509 857 010
Fax: +44 1509 857 011
Email: info-uk@piab.com

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