



Kenos vacuum gripping systems

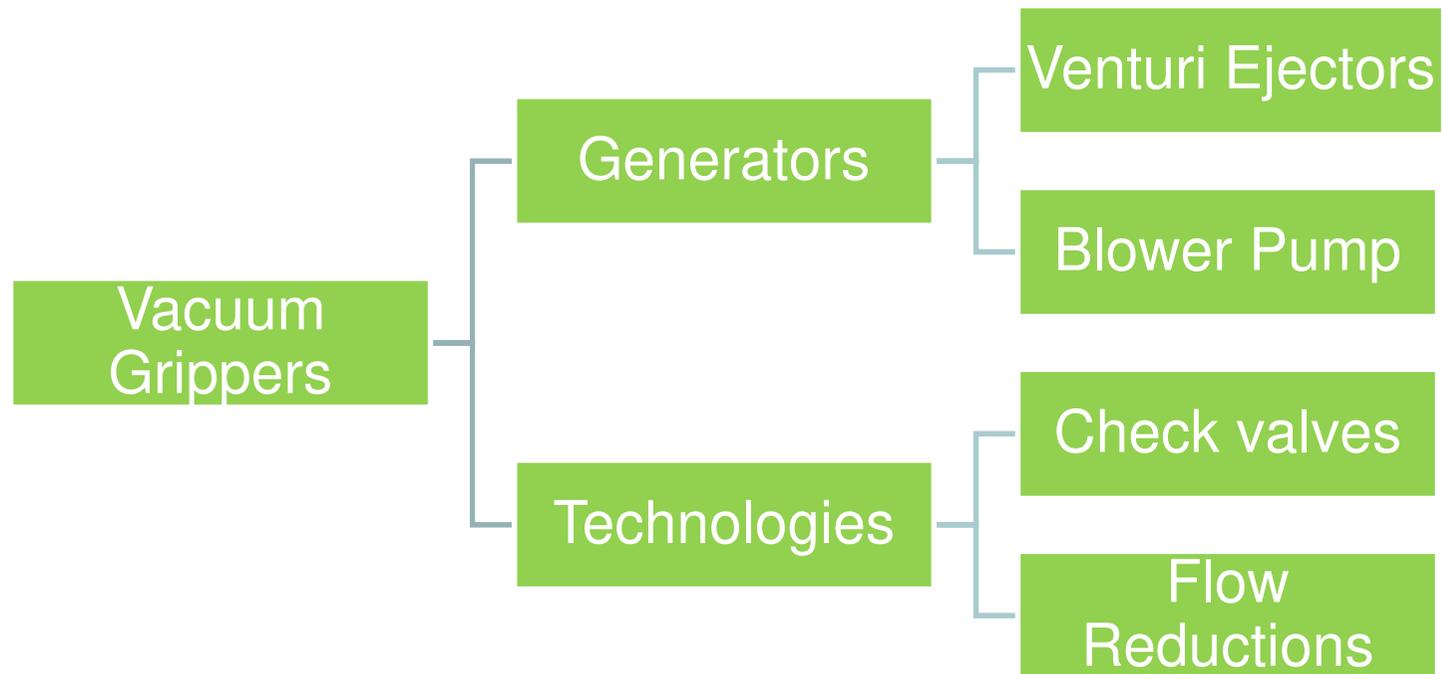
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KENOS
Vacuum gripping systems

Company introduction

- ✓ Establish in 2012
- ✓ Based in Montegrotto Terme (PD) Italy
- ✓ 9 employees
- ✓ 1000 sq/meter
- ✓ From June 2016 owned 100% by PIAB AB



Technology outlook

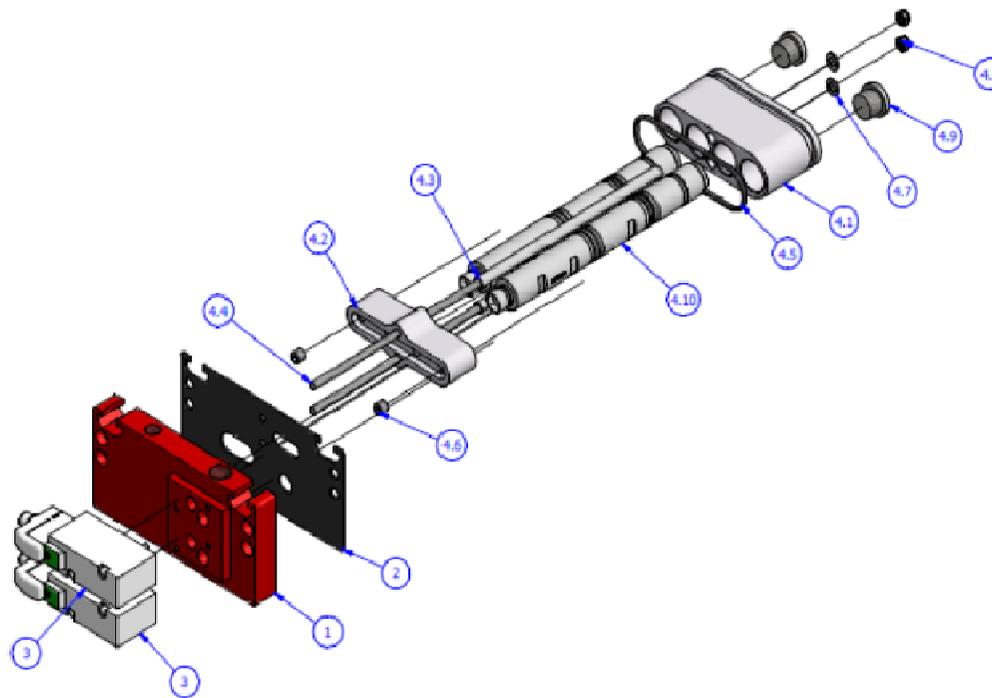


Construction schema



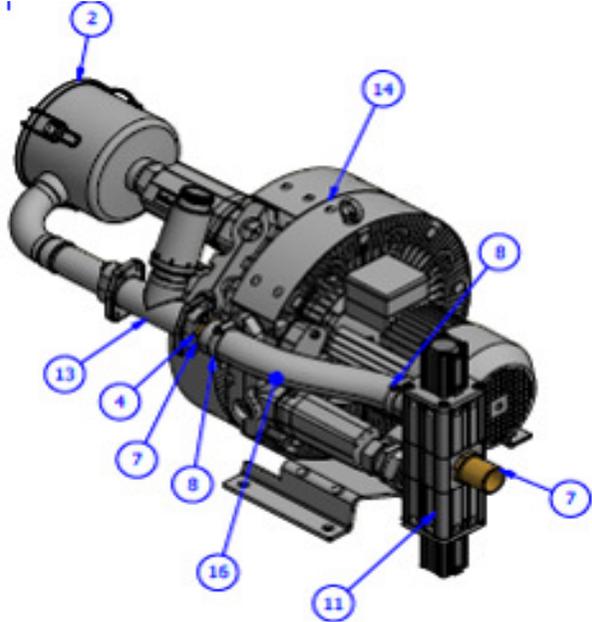
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Ejectors module



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Blower

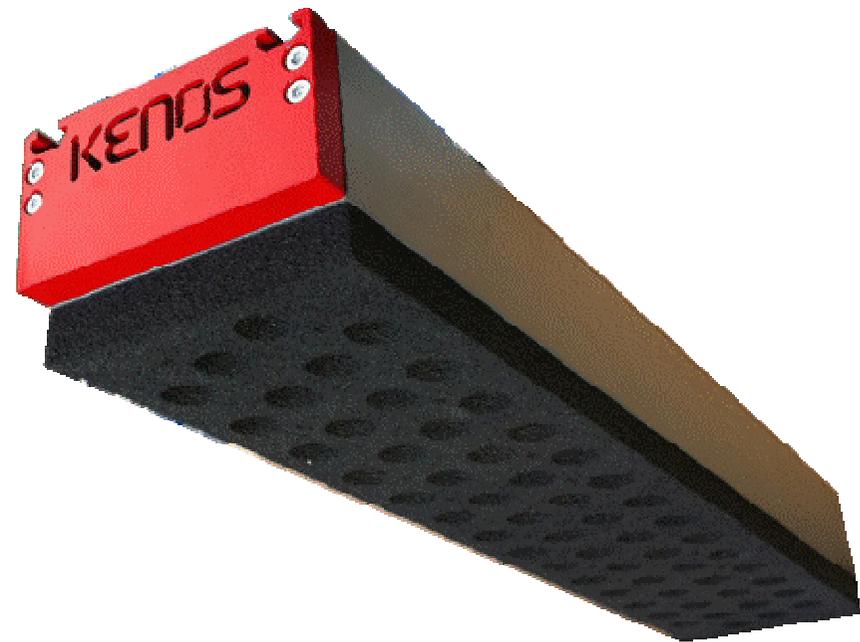


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KVG series Kenos Vacuum Gripper

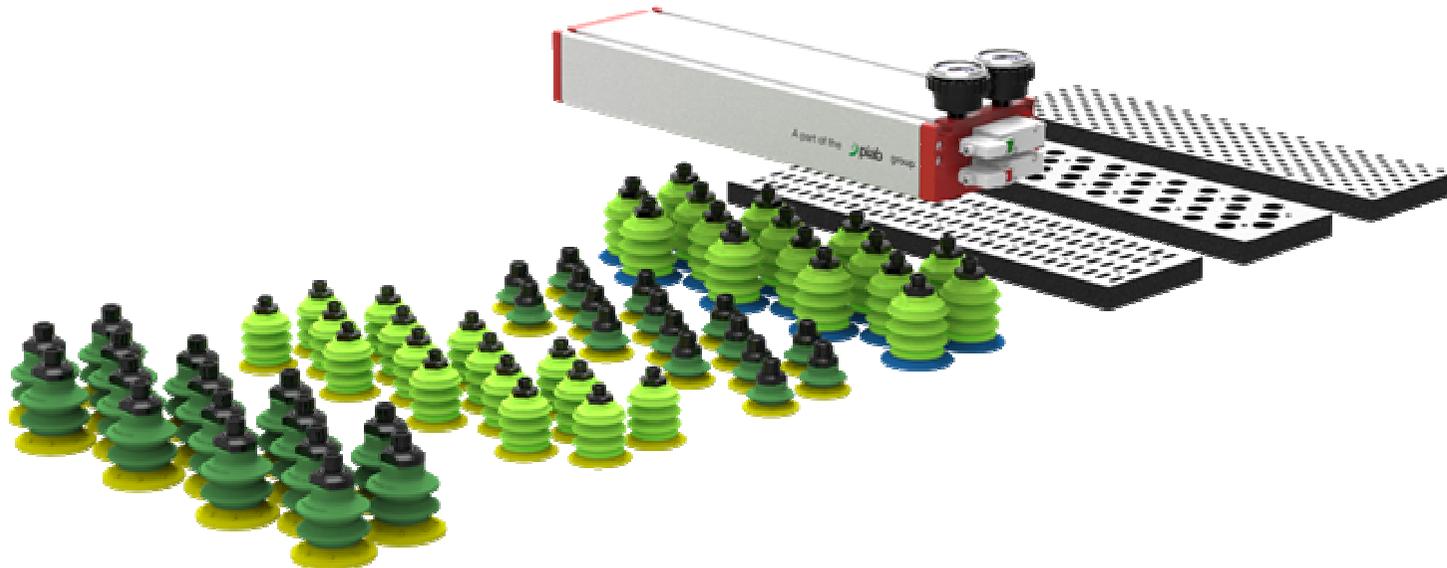


- ✓ Industries Application: wood, plastics, glass, packaging, food, solar, electronics, etc
- ✓ General purpose
- ✓ Available Versions: check valve or flow reduction, integrated ejector or external vacuum generator, technical foam or cups



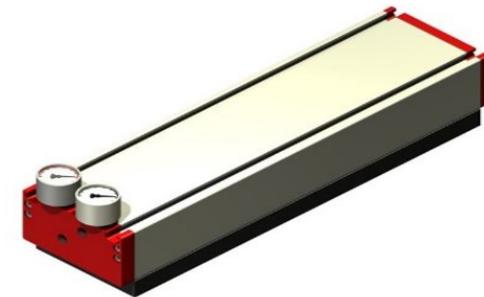
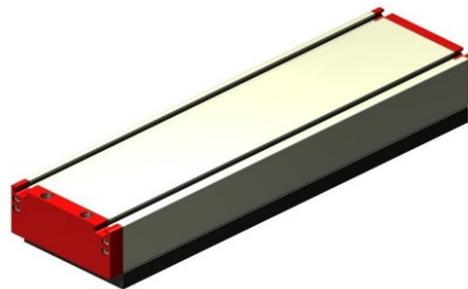
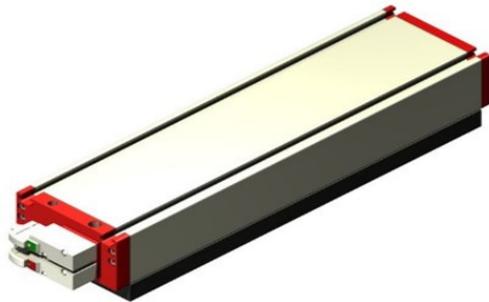
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KVG series Kenos Vacuum Gripper



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KVG series Kenos Vacuum Gripper Cover versions



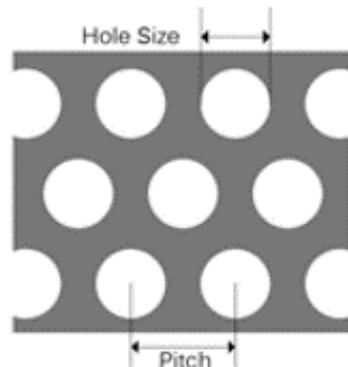
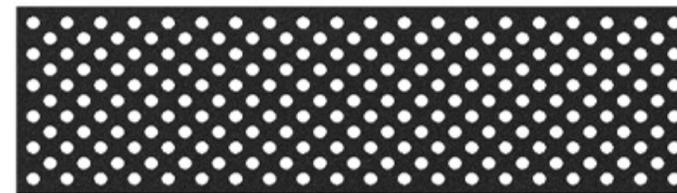
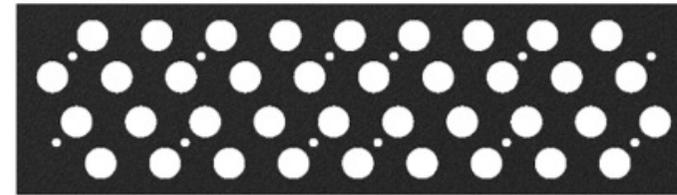
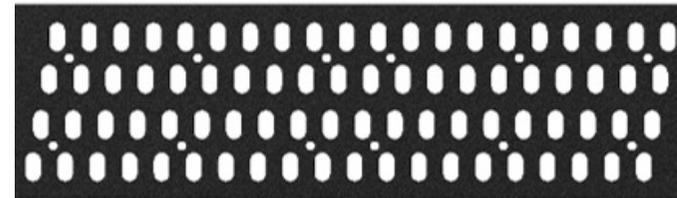
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KVG series Kenos Vacuum Gripper Foams



- ✓ EPDM material:
- ✓ Thickness available 10,20,30 and 40mm
- ✓ Different hole pattern available

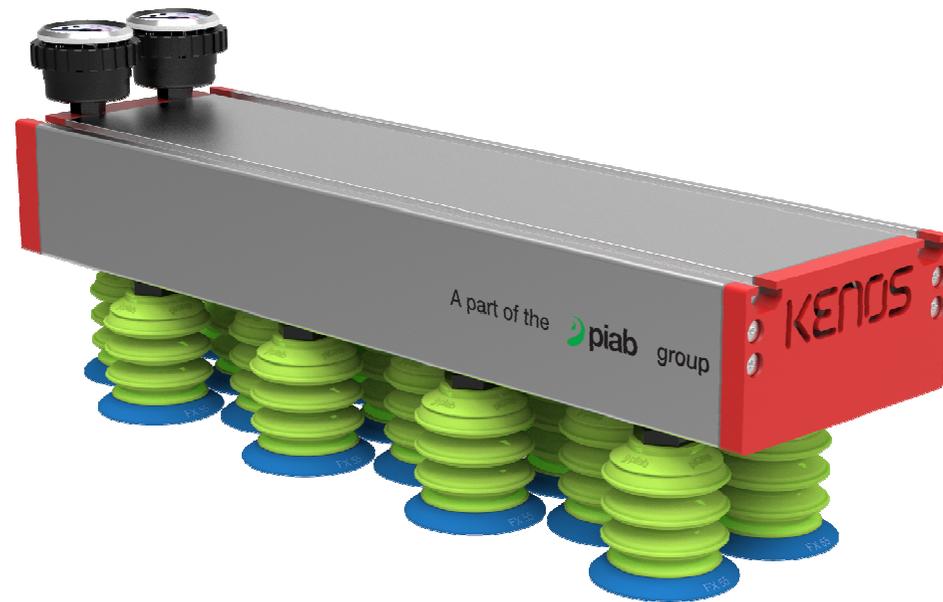
- ✓ SILICON (FDA approved) material:
- ✓ Thickness available 3 and 10mm
- ✓ Different pattern available



KVG series Kenos Vacuum Gripper Cups



- ✓ KVG cup version available
- ✓ Usable cup diameters:
 - with Kenos check valve
BX 35 and BX 52
 - with Pi Save Sense valve
Pi Grip cups
(dia. & pattern on request)



KVG series Kenos Vacuum Gripper Application pics



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KVG series Kenos Vacuum Gripper Application pics



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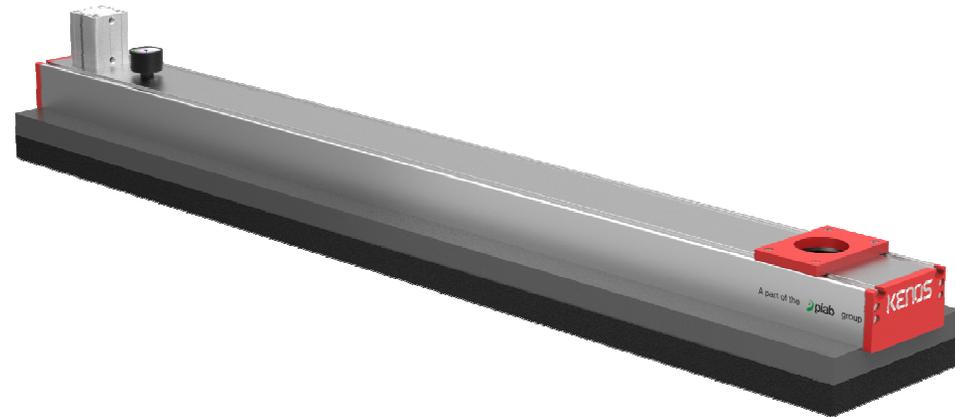


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KHVG series Kenos Heavy Duty Vacuum Gripper



- ✓ Industries application: Wood and forest application, Bricks handling
- ✓ Suitable for handling, normally in complete layer, of sawn timber, heavy planking, raw wood, materials for building



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KHVG series Kenos Heavy Duty Vacuum Gripper



- ✓ Available Versions: check valve technology, external vacuum generator (side channel blower), 120 and 210mm width



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KHVG series Kenos Heavy Duty Vacuum Gripper



- ✓ Application: rough wood and forest industry, bricks handling
- ✓ Suitable for handling, of sawn timber, heavy planking, raw wood, materials for building



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KHVG series Kenos Heavy Duty Vacuum Gripper Application pic



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KHVG series Kenos Heavy Duty Vacuum Gripper Application pics



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KVGL-S series Kenos Vacuum LargeGripper



- ✓ Application: Carton boxes handling, wood, plastics, food, logistic, etc.
- ✓ Available with integrated venturi ejectors or external vacuum generation connection.

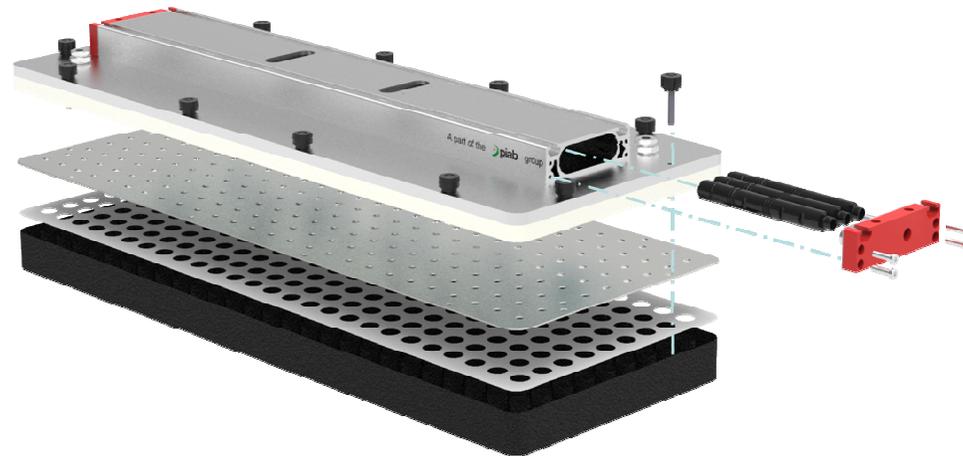


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KVGL-S series Kenos Vacuum LargeGripper



- ✓ Wide range of standard dimensions.
- ✓ Quick change foam system to reduce down time during maintenance.
- ✓ Modularity makes this series highly effective.

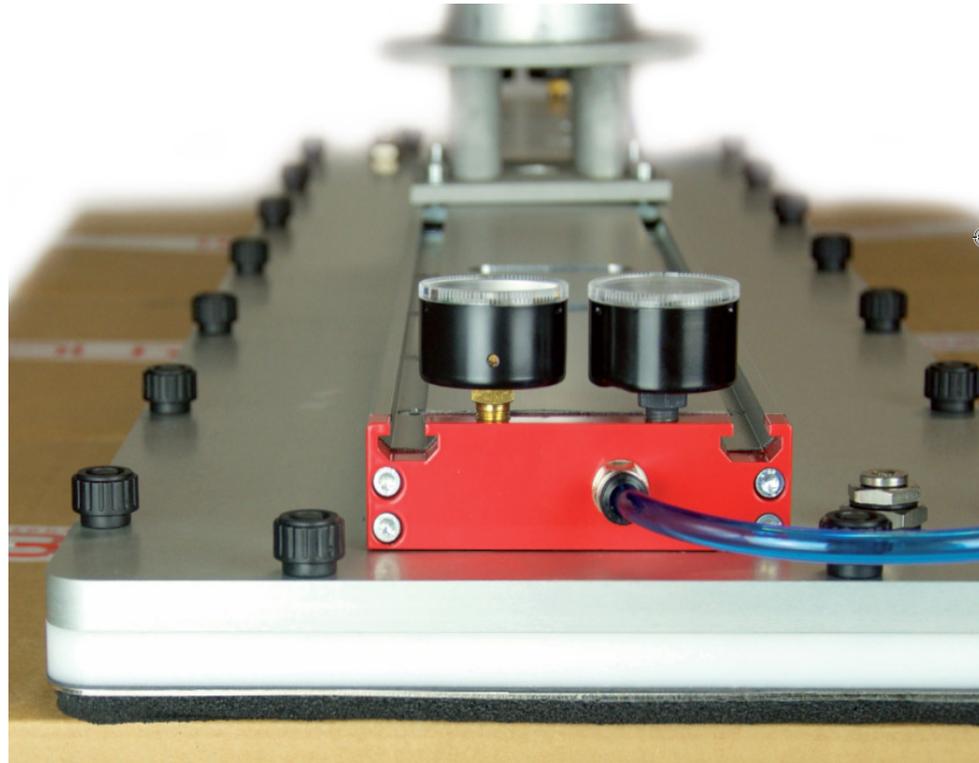


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KVGL-S series Kenos Vacuum LargeGripper



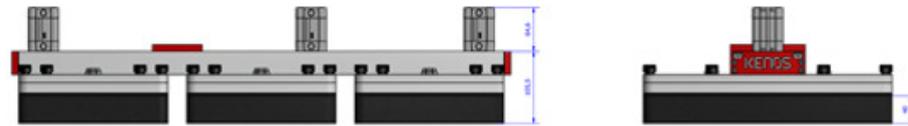
- ✓ Quick change foam system to reduce down time during maintenance.
- ✓ Vacuum detection points.
- ✓ Special size dimensions also available



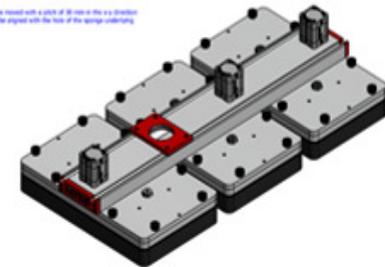
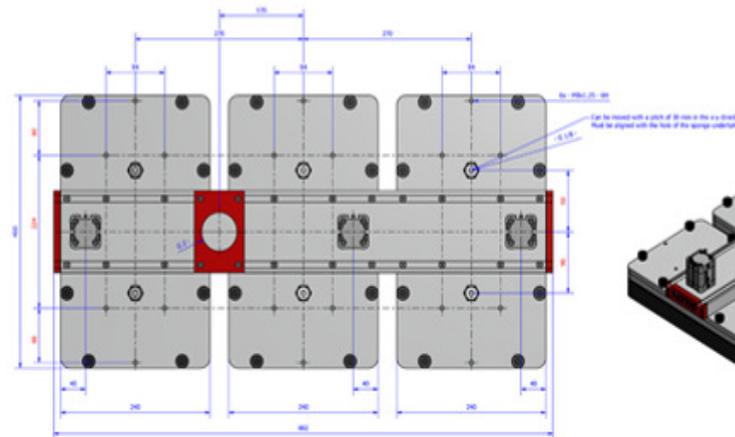
KVGL-S series Kenos Vacuum LargeGripper



- ✓ Example of KVGL-S grippers connected together by a holder/manifold for vacuum distribution.



- ✓ Connection to side channel blower

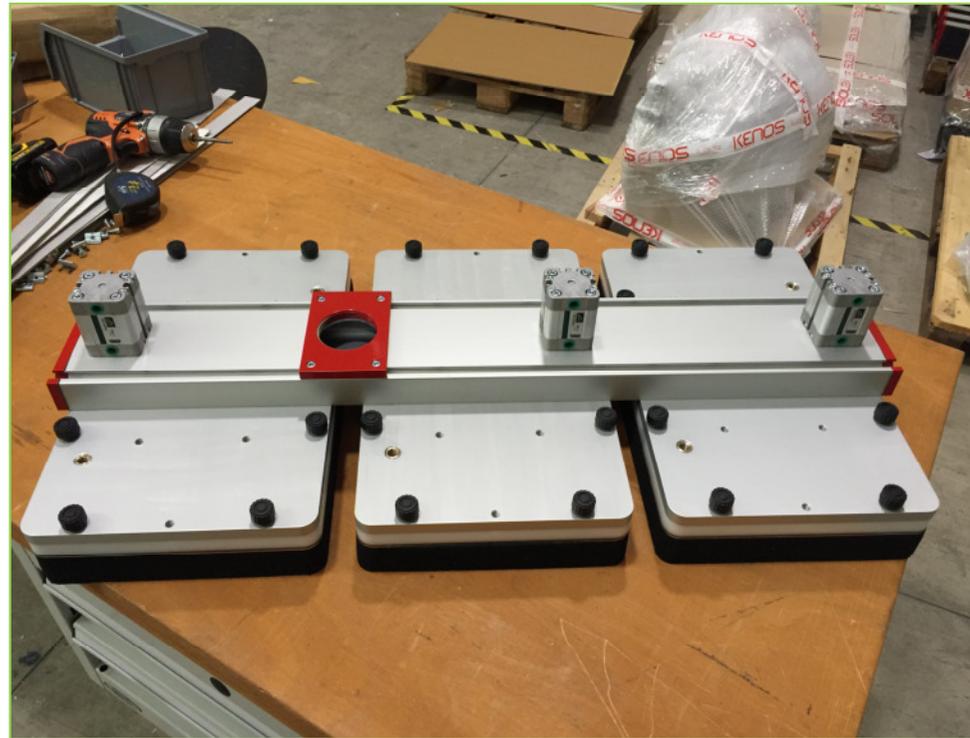


- ✓ Each gripper is independently controlled by a pneumatic cylinder.

KVGL-S series Kenos Vacuum LargeGripper



- ✓ Example of KVGL-S grippers connected together by a holder/manifold for vacuum distribution.
- ✓ Connection to side channel blower
- ✓ Each gripper is independently controlled by a pneumatic cylinder.



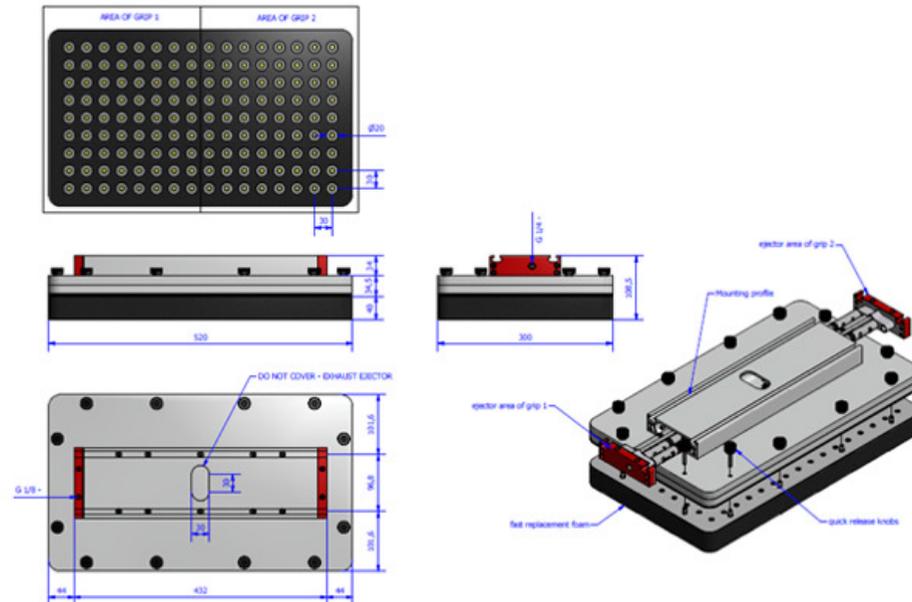
KVGL-S series Kenos Vacuum LargeGripper



- ✓ Example of KVGL-S gripper supplied by Coax ejectors modules from both side.

- ✓ Two separate suction areas available.

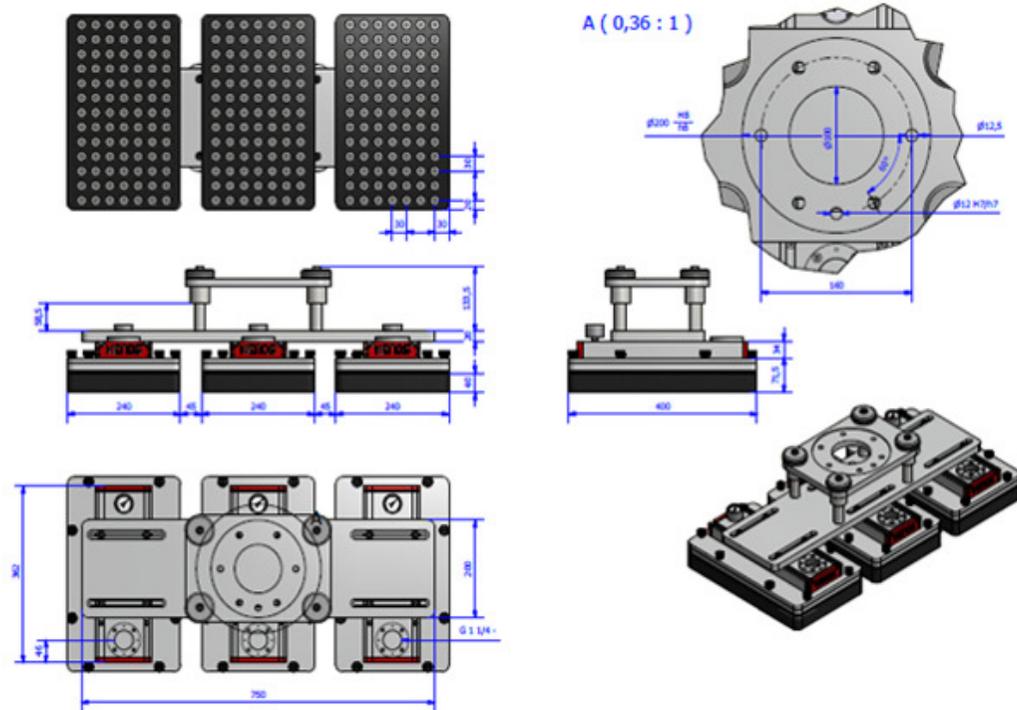
- ✓ Note: exhaust port placed in the centre of top Alu profile.



KVGL-S series Kenos Vacuum LargeGripper



- ✓ Example of KVGL-S grippers installed on common holder.
- ✓ Holder is supplied with ball bush bearing and interface flange to the robot wrist.
- ✓ Each gripper is independent and supplied by side channel blower.



KVGL-S series Kenos Vacuum LargeGripper Application pics



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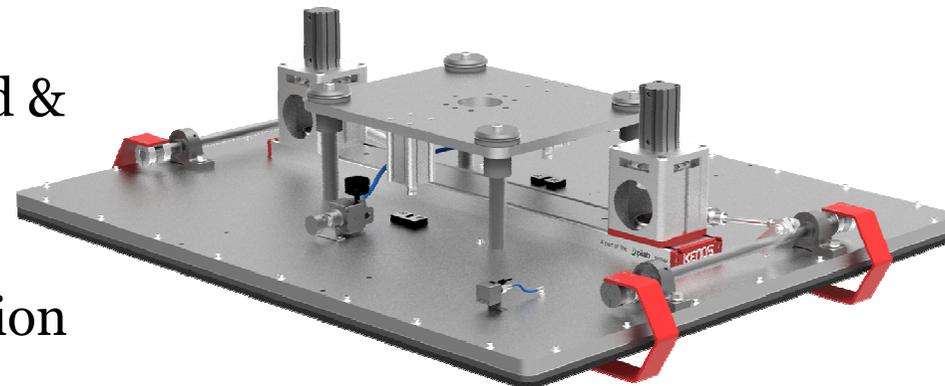


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KVGL-CJ series Kenos Vacuum Large Gripper Cans & Jars



- ✓ Application: Palletizing & depalletizing of cans, jars, buckets, tins (open and closed)
- ✓ Typically dedicated to food & beverage industry.
- ✓ Some interesting application in pharmaceutical and chemical sectors.



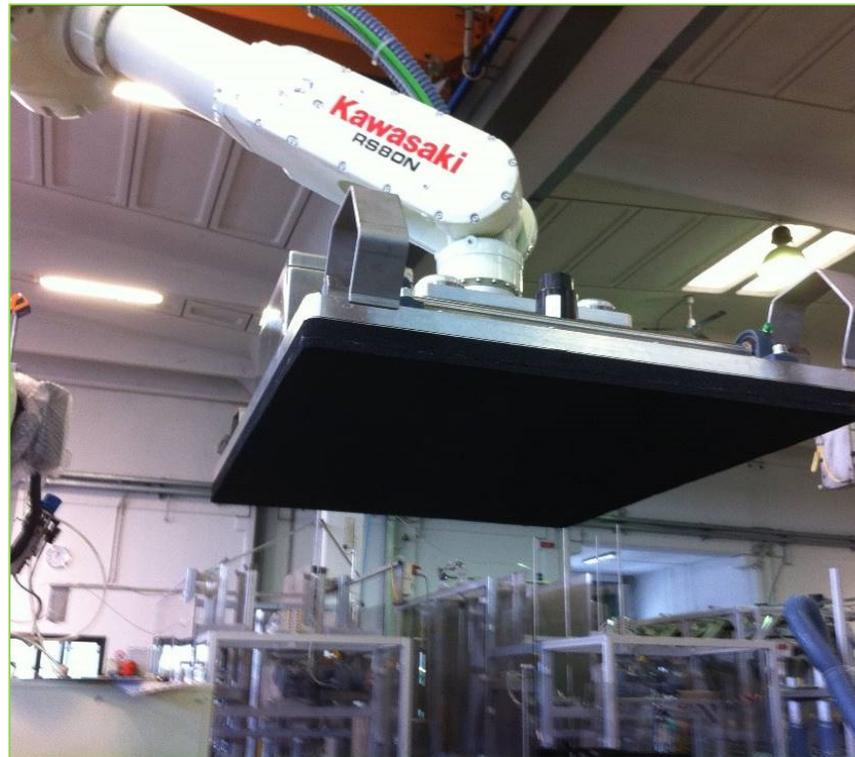
KVGL-CJ series Kenos Vacuum Large Gripper Cans & Jars



- ✓ KVGL-CJ is mainly designed following the customer needs and request. Result is a deep customized gripper solution that often include even sensors, control valves, additional cups for inter-layer handling foil, mechanical hooks for wooden pallet handling and connection flange to the robot.
- ✓ Based on flow reduction technology in combination with external vacuum generation.



KVGL-CJ series Kenos Vacuum Large Gripper Cans & Jars Application pic



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KVGL-CJ series Kenos Vacuum Large Gripper Cans & Jars Application pic



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KVGL-CJ series Kenos Vacuum Large Gripper Cans & Jars Application pic



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KSG series Kenos Sack Gripper



- ✓ Application :
plastic, food, pet
food, wood, etc
- ✓ Suitable for
palletizing and
depalletizing sack
handling.
- ✓ Available Versions:
integrated ejector or
side channel blower
connection.

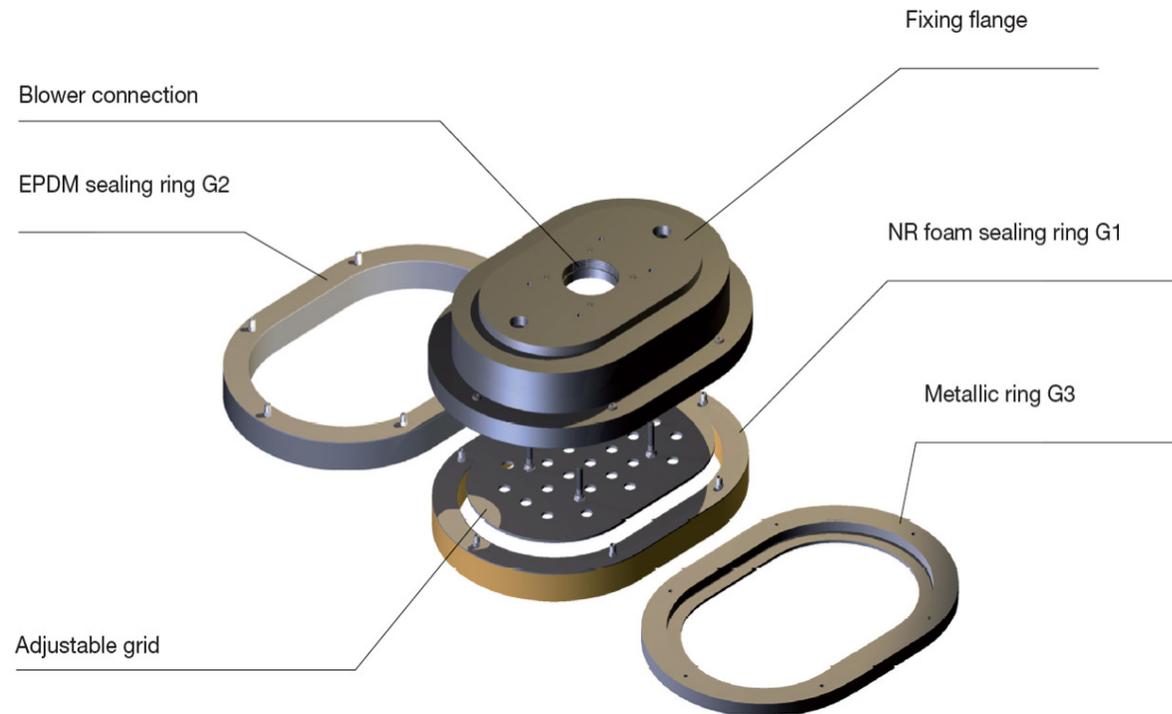


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KVG series Kenos Vacuum Gripper



- ✓ Different dimensions and shapes available.
- ✓ With or without rubber sealing lip.
- ✓ Special version with «booster» available.



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KVG series Kenos Vacuum Gripper



- ✓ Metal ring –
Unique Kenos
selling point.
- ✓ Internal
adjustable grid
plate.



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KSG series Kenos Sack Gripper Application pics



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KSG series Kenos Sack Gripper Application pics



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KBC series Kenos Bag Gripper



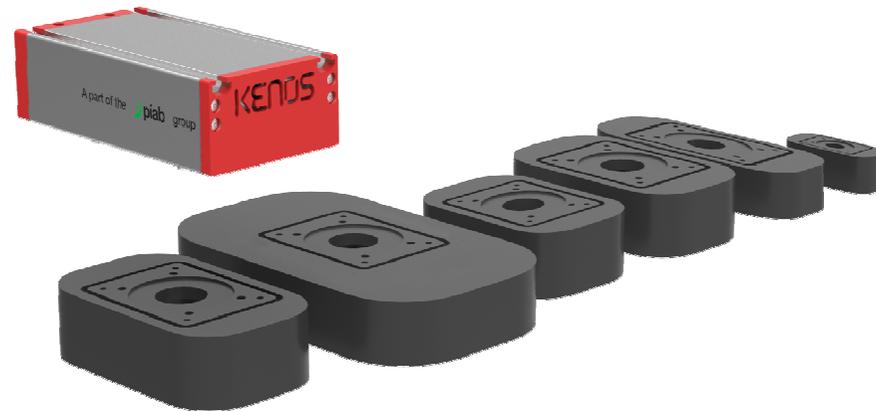
- ✓ Industries application: packaging, food, flowpack, liquid bags, etc.
- ✓ Available versions: integrated ejectors or external vacuum generation.



KBC series Kenos Bag Gripper



- ✓ Different dimensions and shapes available
- ✓ Without sealing lip
- ✓ Plastic cup made of PEHD



KBC series Kenos Bag Gripper Application pics



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KBC series Kenos Bag Gripper Application pics



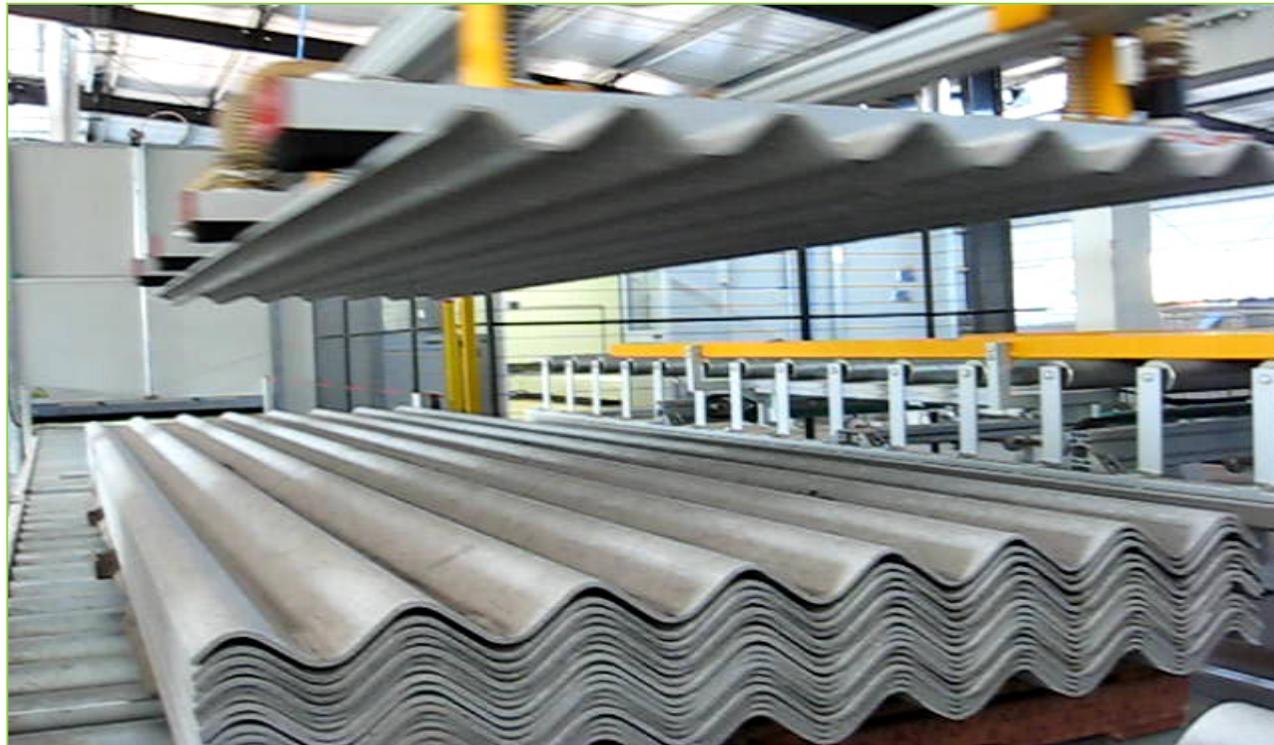
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KBC series Kenos Bag Gripper Application pics



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News



- ✓ Soon integration of Kenos web site into Piab.com
- ✓ Coming soon: Kenos products configurator. (june 2017)
- ✓ Release of new KVG 60mm width. (june 2017)
- ✓ Release of new Kenos level compensators.



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- Selezione automatica - Fine linea - Mousse - Spugna - Presa sacchi - Vacuum gripping systems - Vacuum bars - Palletizing - Depalletizing - S
istance Vacuum - Packaging - Lifting - Holding - Blower - Ejector - Sack gripper - Handling - Automatic selection - End of line - Foam - Vacuum

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No need to compromise

