

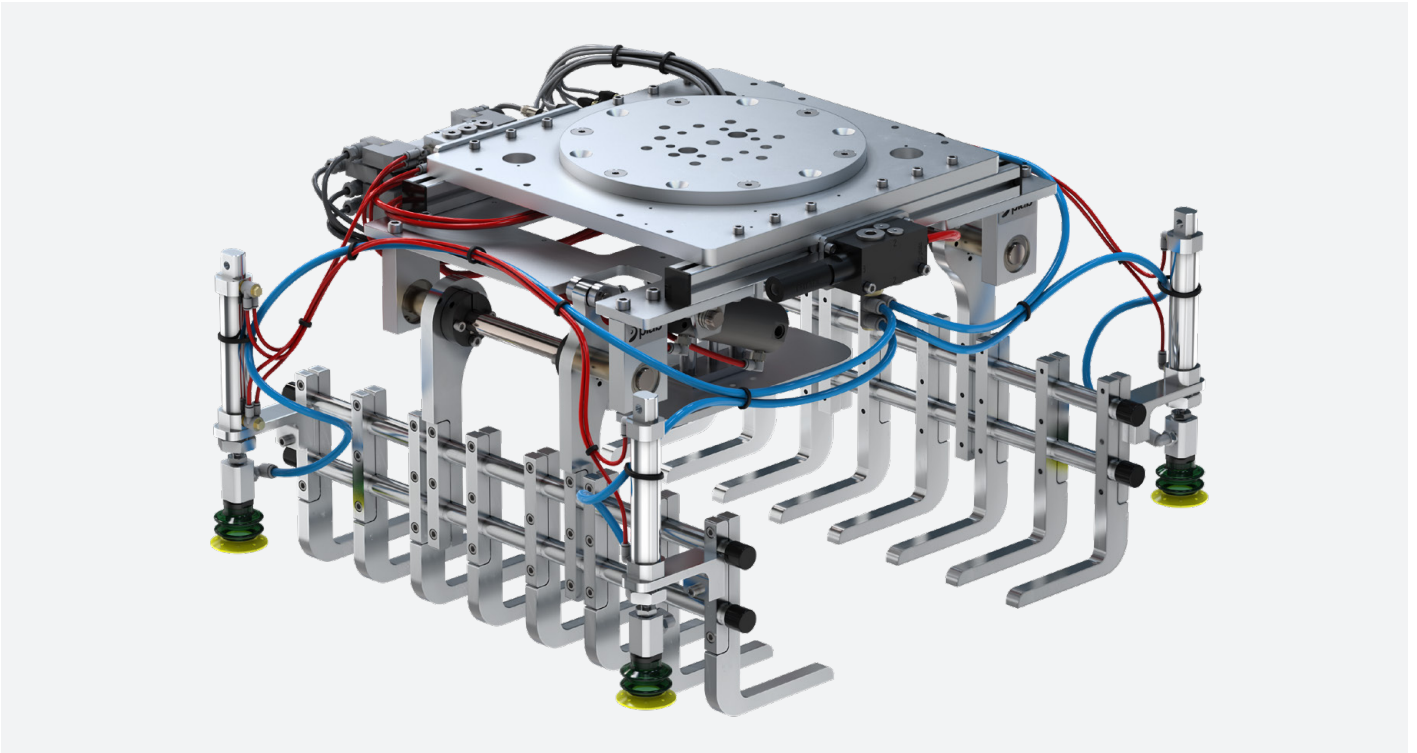


LBG-50

Bag lifting made easy

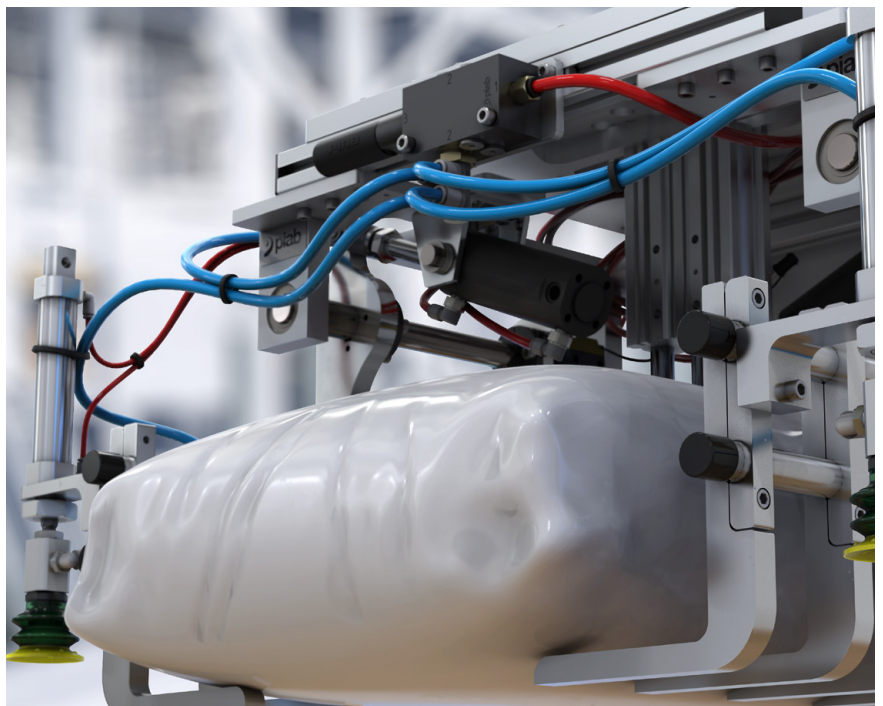
LBG-50

Lightweight bag gripper



LBG-50 is a multi-functional gripping tool that easily lifts sacks and bags with weights of up to 50 kg.

Handling sacks may pose a challenge as they are heavy and flexible, yet with a surface that is sensitive to pinching and puncture. The solution is spelled LBG-50, a lightweight bag gripper that securely handles sacks with weights of up to 50 kg. Slip sheet handling is performed just as gently with the aid of our vacuum-based upgrade option. LBG-50 is pre-engineered and therefore easy to install, finetune and maintain.



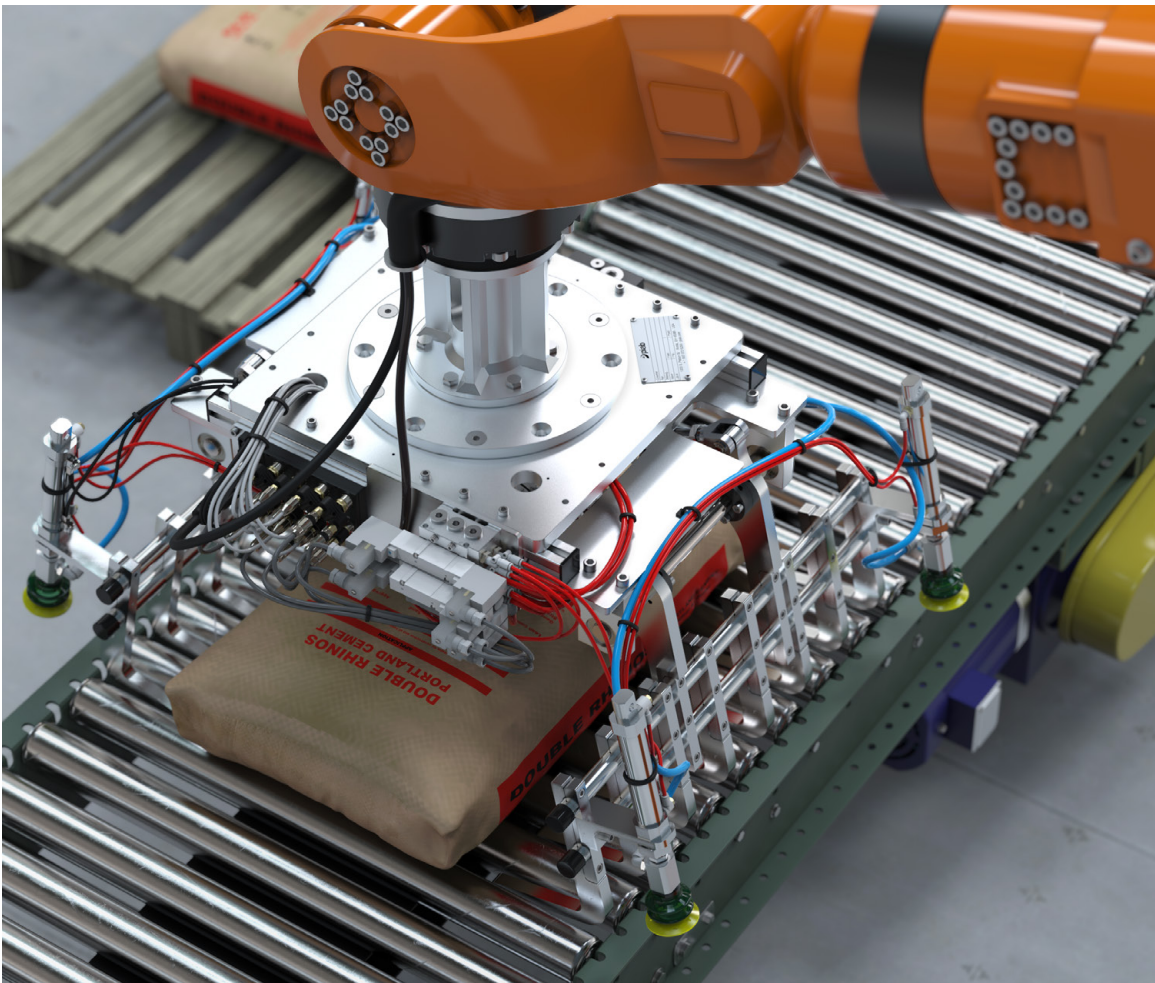


“LBG-50 is the result of our long experience from developing custom palletizing End-of-Arm-Tooling.”

Madeleine Sheikh, Product Manager, Piab Vacuum Automation Division

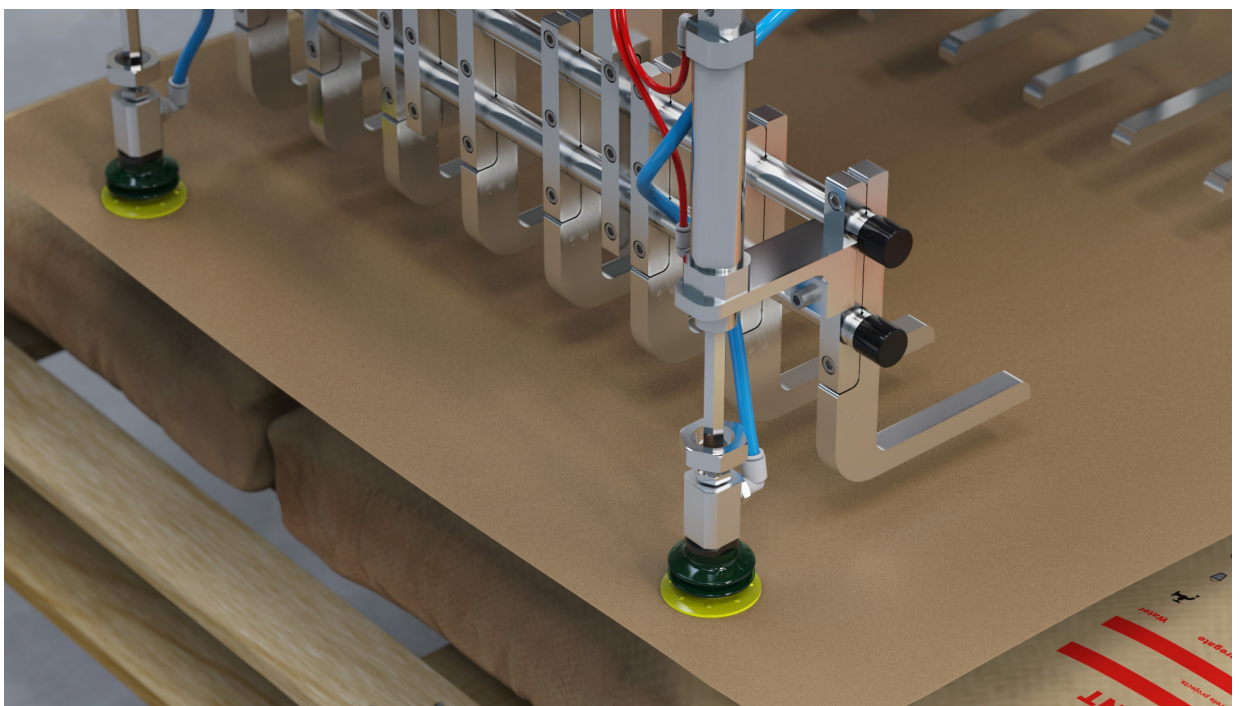


Read more:
go.piab.com/lbg50



LBG-50 combines the precision of carefully designed gripper fingers, that ensures a safe lift, with a built-in top clamp plate to limit bag movement during operation.

Slip sheet handling is enabled with our vacuum-driven tool supplement based on COAX® technology and Duraflex® suction cups.



Features

LBG-50 comes with a multitude of smart features based on our long-term research and cutting-edge technology. It is fully adjustable which guarantees an adaptive fit from every angle. This spares the sacks and prevents unwanted object movement which in turn maximizes the cycle speed. LBG-50 can effectively handle flaccid objects of virtually any soft cover material and dimension:

- Bags and sacks of paper, plastic, non-woven and cloth.
- Dimensions up to 495 x 650 x 215 mm with ≤50 kg weight.



Adjustable finger spacing allows easy fitting to any roller conveyor



Pre-engineered design saves valuable development hours



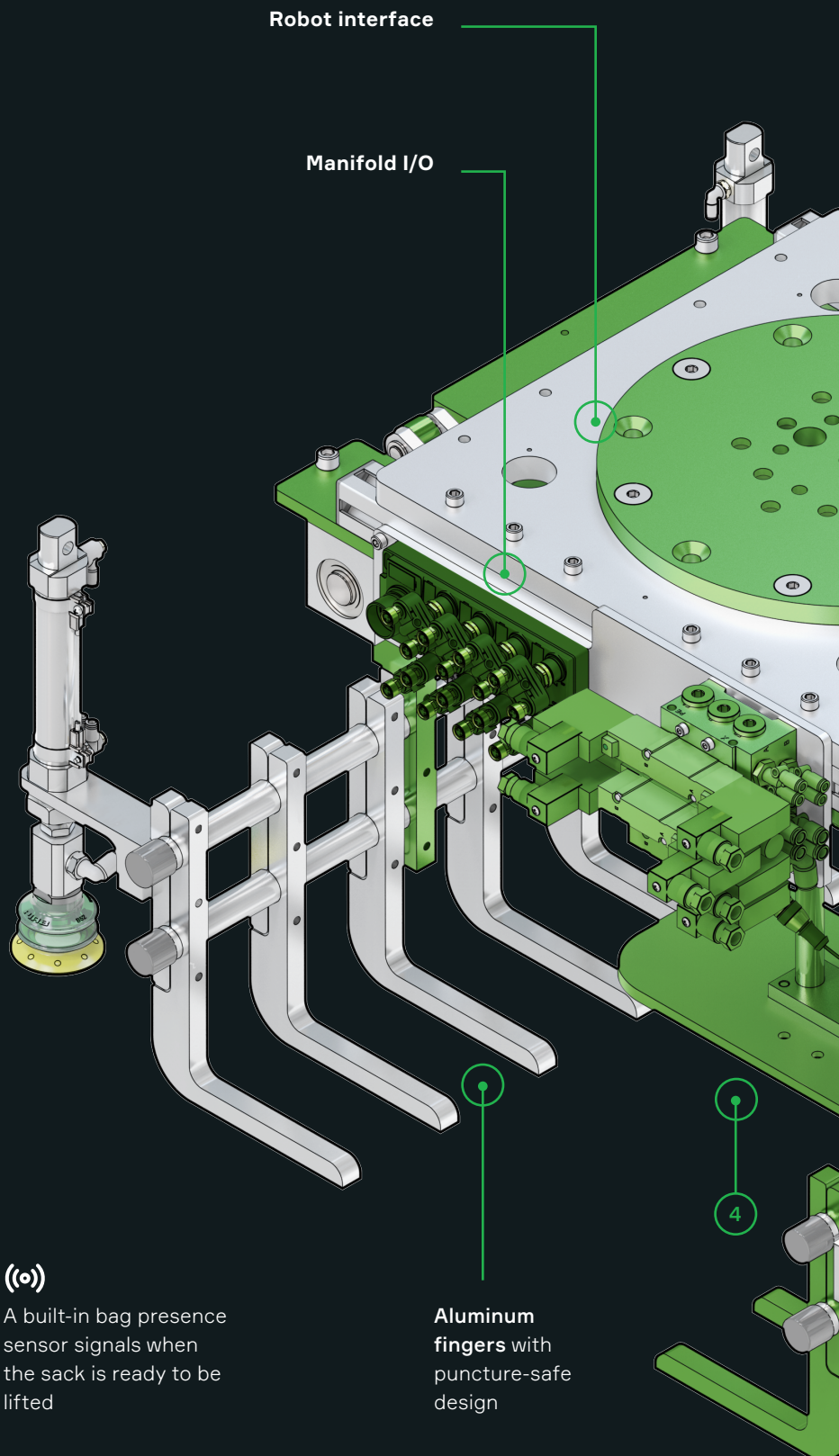
Vacuum-driven slip sheet handling upgrade offered



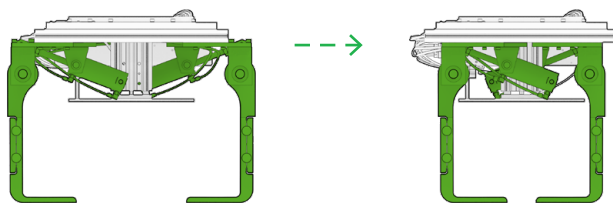
Lightweight tool design in aluminum maximizes the robot's payload



A built-in bag presence sensor signals when the sack is ready to be lifted



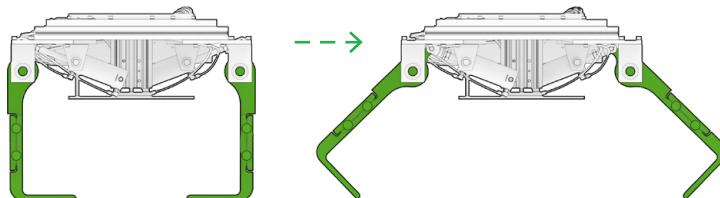
COAX® ejector & vacuum sensor



1

Adjustable width

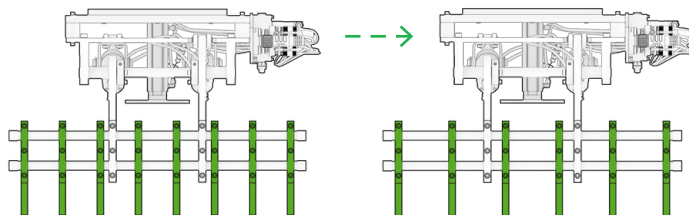
Easily adjusted grip to fit 295-495 mm bag widths.



2

Aligned jaws

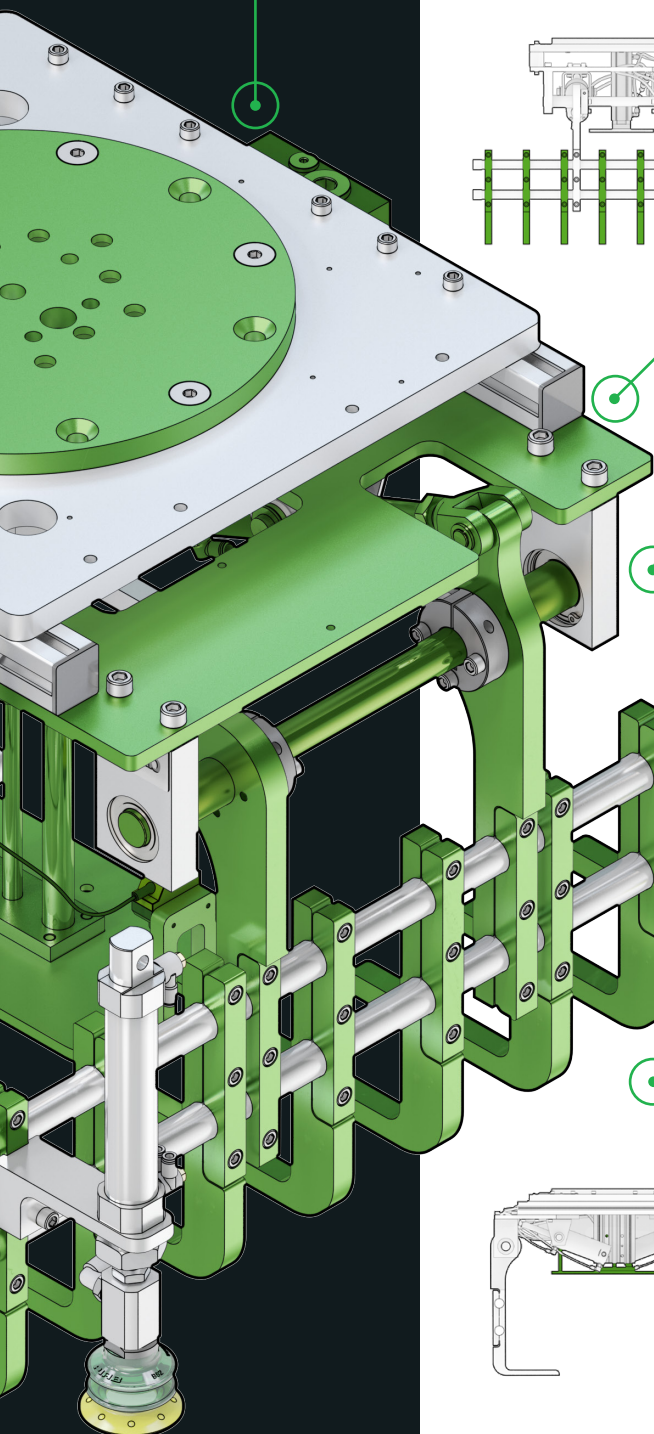
Simultaneous opening and closing for reliable grip, lift and release.



3

Tunable finger pitch

LBG-50 comes with pre-configured finger pitch for perfect adaptation to the roller conveyor. Fine-tuning or changes may be done in-situ.



1

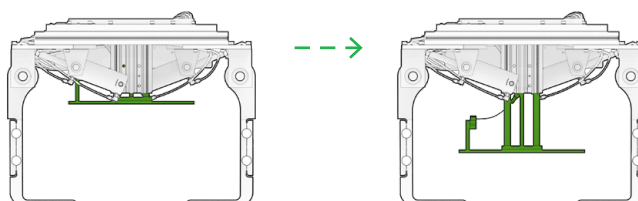
2

3

The slip sheet handling supplement consists of four lightweight units placed in the corners of the gripper. The main parts of each unit being:

Lightweight cylinder with pneumatically driven piston to enable vertical movement of the suction cup.

Duraflex® suction cup, optimized for secure slip sheet handling.



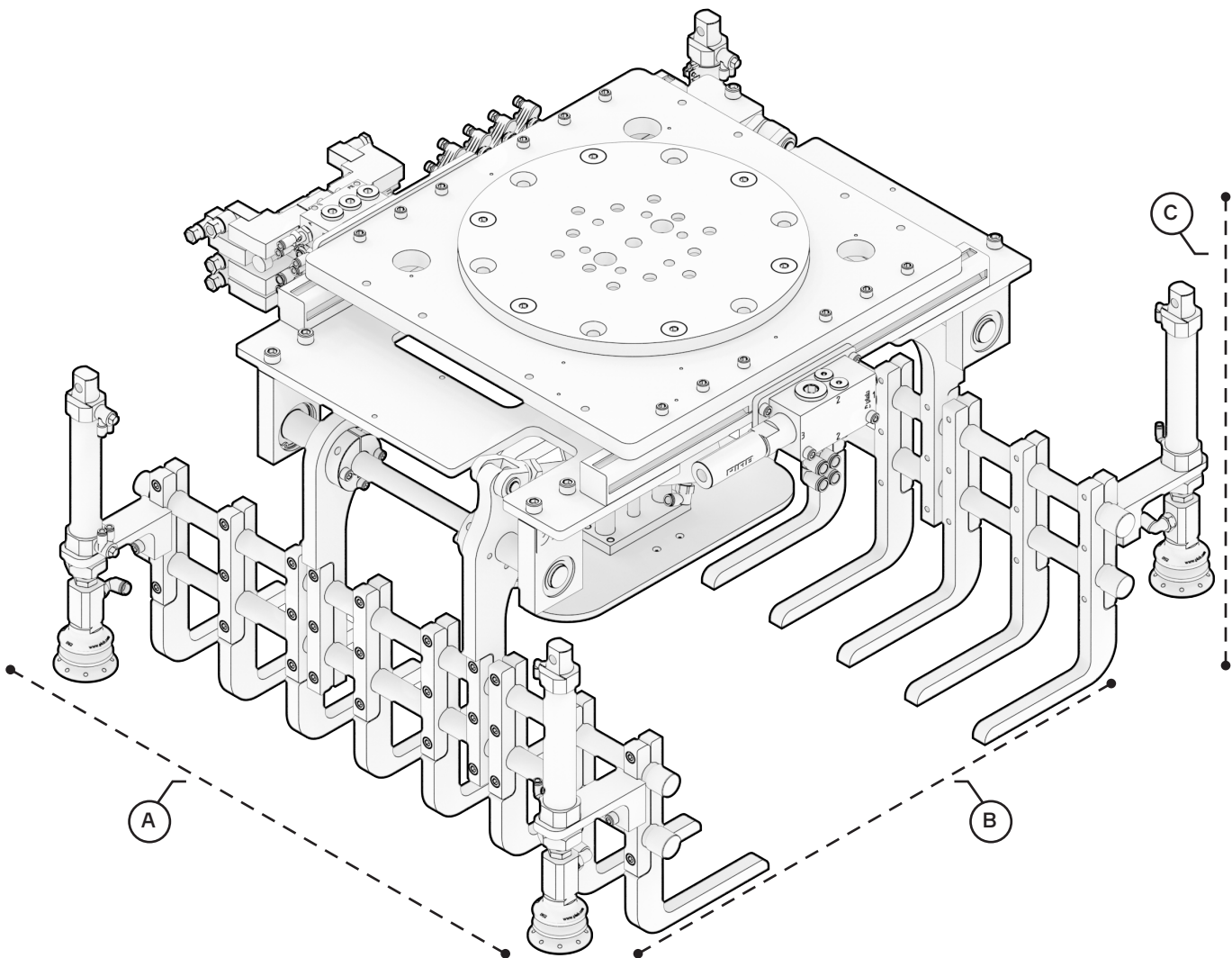
4

Active top clamp plate

Secure vertical grip during robot motion facilitates maximized cycle speed.

Technical information

Specifications



Gripper data

Material	Aluminum, Stainless steel
Weight	~24-33 kg
Length (A)	612-712 mm
Width (B)	384-766 mm
Height (C)	510 mm

Bag data

Max. length	650 mm
Width	295-495 mm
Height	15-215 mm
Max. weight	50 kg

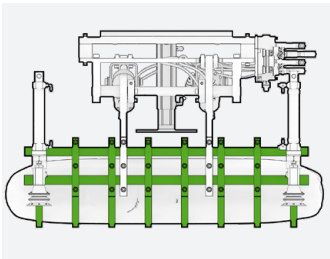
Manifold I/O

EtherNet/IP
PROFINET
Discrete I/O

Slip sheet system data

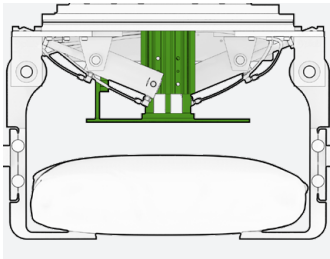
Suction cups	BX52P
Vacuum ejector	Vacuplus MIDI Si32-2

Configurator code



Length fingers*

Code	Options
600	600 mm
700	700 mm



Bag clamp stroke*

Code	Options	Bag height
100	100 mm	115-215 mm
125	125 mm	65-190 mm
150	150 mm	15-165 mm

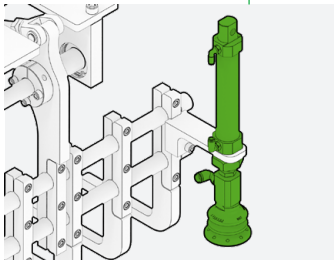
LBG50 . 600 . 75M . 150 . A . SS . ENN . EN

Finger pitch*

Code	Options
3I	3"
35I	3 1/2"
75M	75 mm
90M	90 mm

Robot fixing interface

Code	Options
A	ISO 9401-1-80-6-M8
B	ISO 9401-1-100-6-M8
C	ISO 9401-1-125-6-M10
X	Blank



Slip sheet option*

Code	Options
SS	With slip sheet option
X	None

Manifold I/O*

Code	Options
EN	Serial Wiring EtherNet/IP
PR	Serial Wiring PROFINET
DIO	Discrete Input and output
X	None
Code	Options
N	NPN
P	PNP

Manual language

Finger pitch

The preset center-center distance between the fingers. If a different spacing for the conveyor rollers are used, fingers may be adjusted accordingly.

Bag clamp stroke

The bag clamp facilitates the fixation of a bag on the fingers to secure best possible grip.

Slip sheet option

Enables slip sheet handling for palletizing purposes. Includes a COAX® driven vacuum generator and Duraflex® suction cups.

Manifold I/O

Ethernet, Profinet or Discrete I/O manifold blocks by SMC are Piab standard options. Alternatively, order without manifold to allow I/O solution from other vendors.

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