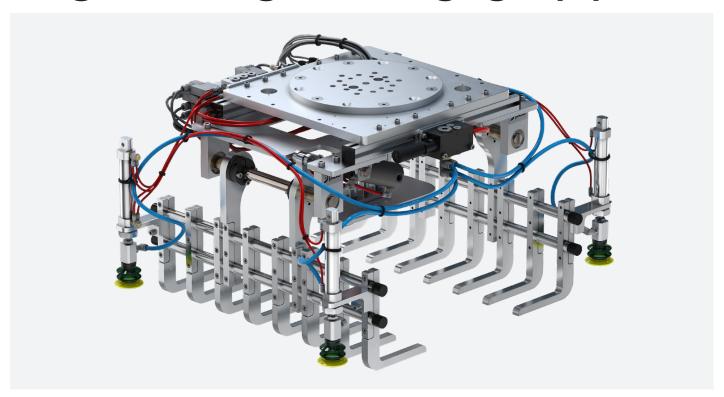


Bag lifting made easy



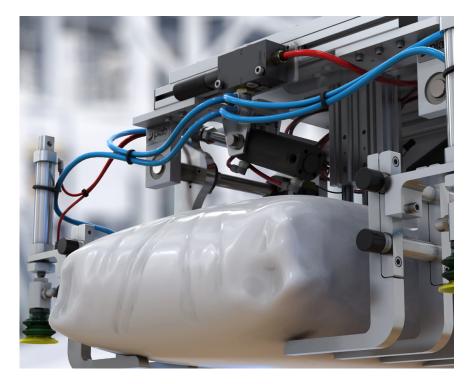
LBG-50

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.



Brochure LBG-50 Page 2/8

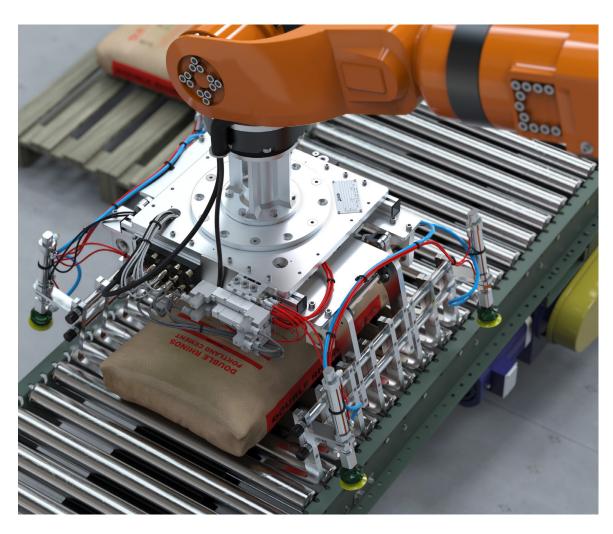


"LBG-50 is the result of our long experience from developing custom palletizing End-of-Arm-Tooling."





Madeleine Sheikh, Product Manager, Piab Vacuum Automation Division



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 cuttingedge 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

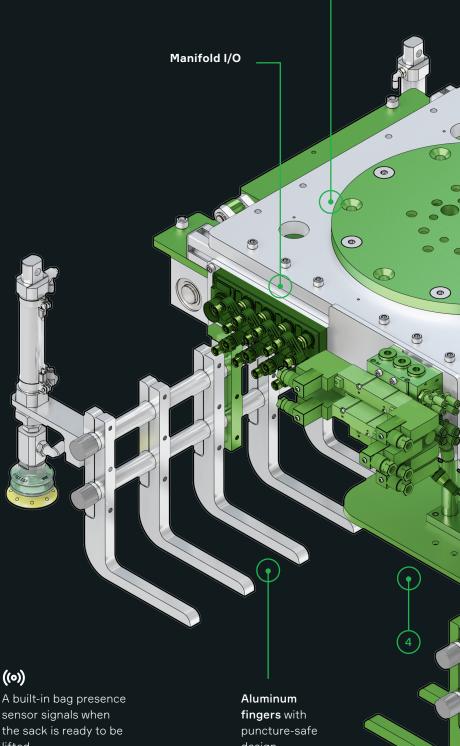


Lightweight tool design in aluminum maximizes the robot's payload



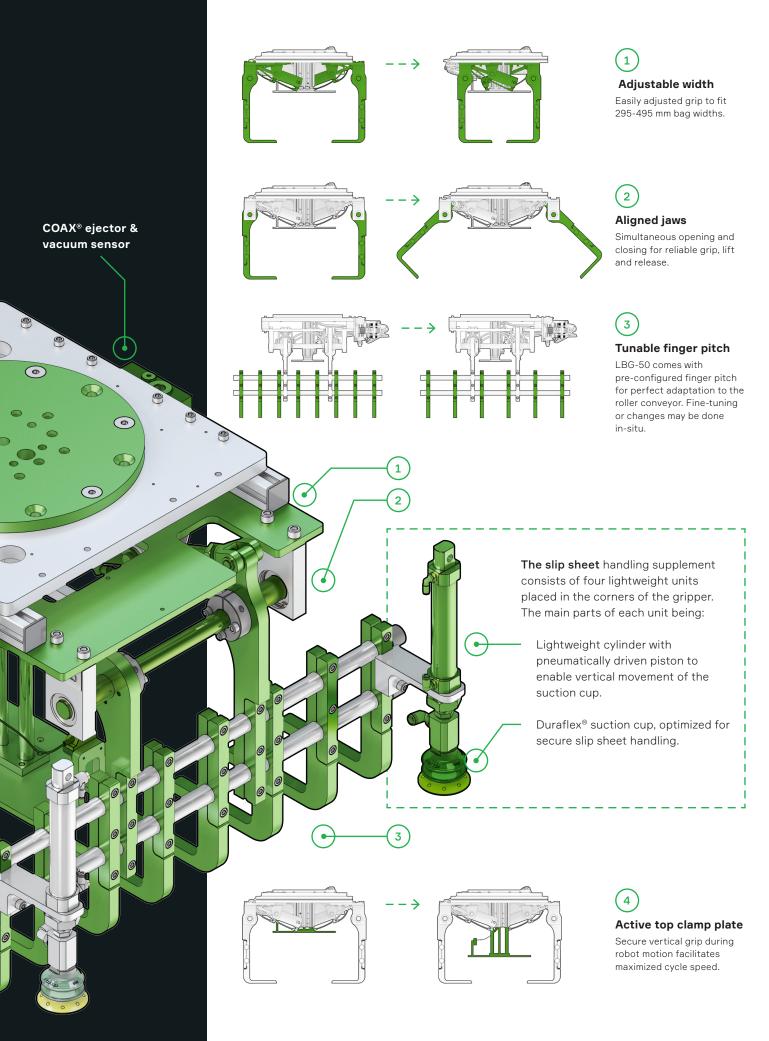
sensor signals when the sack is ready to be lifted

fingers with design



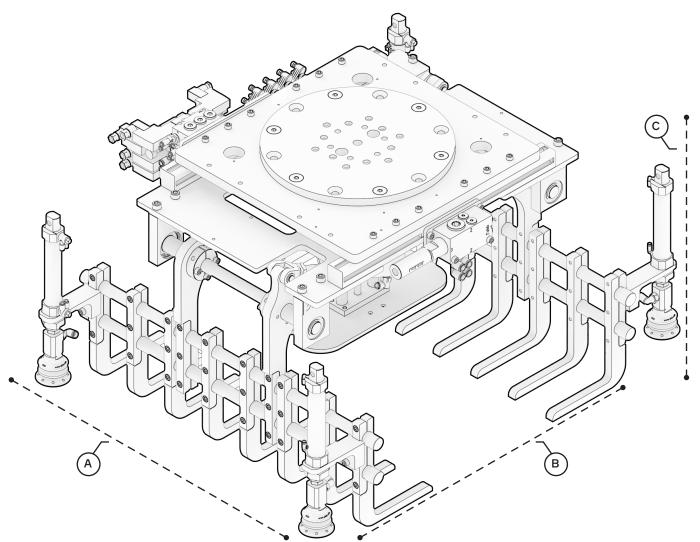
Robot interface

LBG-50 Brochure Page 4/8



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

PROFINET	EtherNet/IP	
	PROFINET	

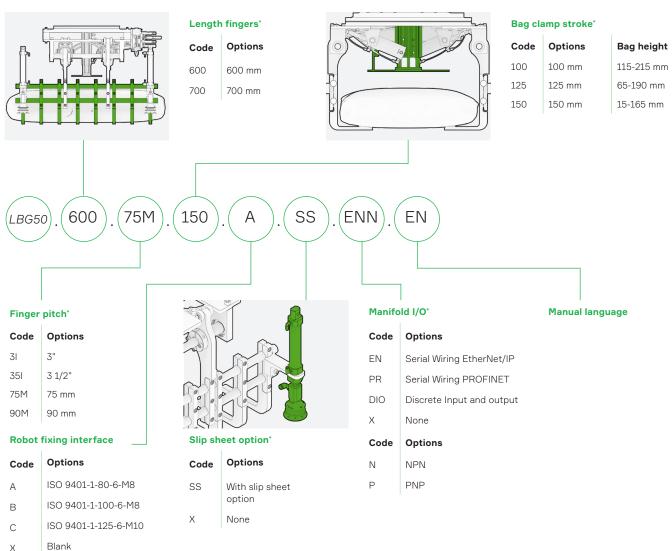
Slip sheet system data

Suction cups	BX52P
Vacuum ejector	Vacuplus MIDI Si32-2

Discrete I/O

Brochure LBG-50 Page 6/8

Configurator code



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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