Piab Custom-Line

Sixpack

Gripper



Polab Evolving automation

Piab Custom-Line

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Flawless banderoles and cardboard packaging

Vacuum technology proves once more to be the right choice for handling sensitive products. Contrary to mechanical grippers, this vacuum sixpack gripper leaves the



banderoles and cardboard packaging fully intact during automated handling and palletizing.



Strong and stable hold

Exchangeable cheeks stabilize the six-pack in the gripper during robotic handling. Decentralized vacuum generation for each of the three suction cups ensure a strong hold even if in case of failur of one ejector.

Overview

With Piab's custom-made gripper, sixpacks with cardboard wrapping can be handled automatically, gently and without leaving any marks.







Lightweight

3D-printing

′KG



- Compact modular design: the gripper can be easily adapted by Piab's experts to fit the specific sixpack format of each customer.
- Mark free handling: due to a specially developed load support inside the suction cup soft material is not sucked in.
- Strong hold: thanks to the decentralized vacuum system the system is fully functional even if one ejector fails.
- Fast process: equipped with an automatic blow-off, the gripper can place the sixpack quickly, while cleaning ejectors, tubes and suction cups simultaneously.
- Low maintenance: as the gripper has no moving parts and cleans itself while operating. Gripper exchange by handling just 4 screws.
- Cost effective: approximately half the price to standard mechanical grippers.

Vacuum Flow

Based on an example gripper with 3x Si08-2 ejectors

Feed pres- sure	Air con- sump- tion	Vacuum flow (NI/s) [scfm] at different vacuum levels (-kPa) [-inHg]								Max. Vacuum
MPa [psi]	NI/s [scfm]	0 [0]	10 [3]	20 [6]	30 [9]	40 [12]	50 [15]	60 [18]	70 [21]	-kPa [-inHg]
0.4 [58]	0.31 [0.66]	0.71 [1.50]	0.53 [1.12]	0.34 [0.72]	0.26 [0.55]	0.18 [0.38]	0.09 [0.19]	0.01 [0.02]	-	60 [17.7]
0.5 [73]	0.38 [0.81]	0.77 [1.63]	0.61 [1.29]	0.43 [0.91]	0.29 [0.61]	0.23 [0.49]	0.15 [0.32]	0.08 [0.17]	0.01 [0.02]	70 [20.7]
0.6 [87]	0.44 [0.93]	0.77 [1.63]	0.67 [1.42]	0.51 [1.08]	0.33 [0.70]	0.23 [0.49]	0.16 [0.34]	0.12 [0.25]	0.08 [0.17]	75 [22.1]