NEW

Intelligent, Autonomous and Flexible Vacuum Generation

Vacuum Generator ECBPi

WWW.SCHMALZ.COM/ECBPI
Schmalz presents the CobotPump ECBPi – a new generation of intelligent vacuum generators that do not need compressed air. Their areas of application include mobile robotics, for example in autonomous warehouses or stationary handling tasks with collaborative robots (cobots).

Application

- Intelligent electrical vacuum generator for handling airtight and slightly porous workpieces
- Integrated interface for controlling and monitoring the handling process
- For use in mobile robotics, fully automated small parts handling and stationary handling tasks

Highlights

- Connection via IO-Link allows process monitoring and predictive maintenance from the machine to the cloud
- Condition monitoring reduces errors and downtime – this ensures the availability of the system
- NFC interface features direct access to processes and the device via smartphone
- Energy efficient thanks to integrated automatic adaptation of the performance to the handling process
Schmalz Vacuum Generator ECBPi
Intelligent Vacuum Generation with a wide Variety of Options for Adaptation and Integration

1. Collaborative robot (all common cobot models)
2. Robot flange for mechanical connection of the electrical vacuum generator ECBPi
3. Flange adapter plate
4. M12 8-pin plug connection or terminal block as digital interface between the CobotPump and the robot
5. Flange for gripper connection
6. Flexibly configurable grippers from the modular system for vacuum end effectors VEE

Flexible connection: The CobotPump can be quickly and easily combined with common lightweight robots using various flange plates.

Everything under control: The CobotPump features an integrated speed control function, which regulates the performance of the pump to suit the process or workpiece. Simple parameterization on the device, via NFC or using IO-Link.

Simple switching: Easily configure and connect grippers for the CobotPump to create a tailored solution for the specific application. The quick-change adapter minimizes switching times.

A smart solution: The CobotPump features NFC. The NFC interface allows users to conveniently read out data on their smartphones, including process data, operating instructions and error messages.
A wide Variety of Autonomous, Collaborative Applications

Smart Assistance in Collaborative Work

Today, some steps require several employees, but robots are increasingly taking on new tasks to work hand-in-hand with people.

- The CobotPump is ideal for stationary handling tasks with collaborative robots

Autonomous Movement

In conventional warehouses, gripping systems are confined to a stationary power supply, meaning that they are limited to one defined handling task.

- The CobotPump generates a vacuum without compressed air, so no conventional hoses are needed
- The vacuum generator ECBPi is perfect for use in mobile robotics

Simple Integration into the Robot

Quick and Flexible Connection

- The CobotPump makes process data transparent using an IO-Link interface in the field-bus system. Ideal for targeted process monitoring and control
- The CobotPump can also be operated with conventional signal transmission without an IO-Link, in what is known as SIO mode (standard IO mode)
- Connection with a terminal block (TB-8) simplifies the connection process and reduces cable assembly costs
Schmalz Vacuum Generator ECBPi

Max. 12 l/min Suction Rate

Ordering Code for Electrical Vacuum Generator ECBPi

<table>
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<tr>
<th>Code</th>
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<th>Code</th>
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<td>M12-8</td>
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Note on ordering: The electrical vacuum generator ECBPi comes ready to connect.
Available accessories: Flange plate

Ordering Data for Electrical Vacuum Generator ECBPi

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<tr>
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Ordering Data for Accessories for Electrical Vacuum Generator ECBPi

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Technical Data for Electrical Vacuum Generator ECBPi

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Electrical Vacuum Generators

Schmalz Vacuum Generator ECBPi
Max. 12 l/min Suction Rate

Design Data for Electrical Vacuum Generator ECBPi

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Design Data for Accessories for Electrical Vacuum Generator ECBPi

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## Schmalz Vacuum Generator ECBPi

**Max. 12 l/min Suction Rate**

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### Find and Order Vacuum Components Quickly and Easily

- Find and compare components quickly and save them in a Shortlist
- VEE gripper configurator
- Useful explanatory videos for the CobotPump and many other components
- CAD download (2D/3D)
- Check price and availability in real time

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Vacuum Automation
T: +49 7443 2403-102

Handling Systems
T: +49 7443 2403-108