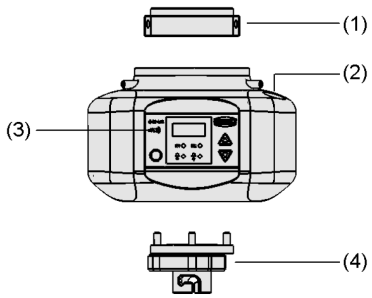
Vacuum Generators ECBPi

Suction rate up to 12 l/min

LOGISTICS

Vacuum Generators ECBPi



System Design Vacuum Generators ECBPi

Electric vacuum generator ECBPi when handling cardboard boxes

Suitability for Industry Specific Applications

Applications

- 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

Design

- Flange adapter plate (1) for mechanical connection to all common cobot models
- M12 8-pin plug connection or terminal block as digital interface (2) between the ECBPi and the robot
- NFC interface (3) for conveniently transferring data using a smartphone
- Flange for gripper connection (4)

Product Highlights

- Integrated ventilation valve for fast and precise depositing
- Targeted process monitoring and predictive maintenance through connection via IO-Link
- Condition monitoring reduces errors and improves plant availability
- NFC interface allows readout and parameterization via smartphone
- Improved energy efficiency through automatic adjustment of the suction power

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Designation Code Vacuum Generators ECBPi

ECBPi	–	24V-DC	–	M12-8
1		2		3

1 – Abbreviated designation

Code	Version
ECBPi	Electrical CobotPump

2 – Voltage

Code	Operating voltage
24V-DC	24V-DC

3 – Electrical connection

Code	Type
M12-8	M12, 8-pin plug
TB-8	Terminal strip

The electrical vacuum generator ECBPi is delivered as a ready-to-connect product.

Available accessories: flange plate, connection cable, connection distributor

Ordering Data Vacuum Generators ECBPi

Type	Part no.
ECBPi 12 24V-DC M12-8	10.03.01.00314
ECBPi 12 24V-DC TB-8	10.03.01.00364

Ordering Data Accessories Vacuum Generators ECBPi

Accessories		Part no.
Flange plate robot UR, KUKA iiwa	FLAN-PL UR-KUK-1	10.03.01.00313
Flange plate robot application RETHINK	FLAN-PL RET-1	10.03.01.00358
Flange plate robot RETHINK ClickSmartAdapter	FLAN-PL RET-2	10.03.01.00373
Flange plate robot universal	FLAN-PL ECBPi	10.03.01.00379
Flange plate robot FANUC	FLAN-PL FAN-1	10.03.01.00390
Flange for connecting the gripper module PXT	SET PXT 46 1LT	10.01.49.00085
Connection cable, M12 8-pole, M8 8-pole, 0.28 m, PUR, straight	ASK B-M12-8 280 WB-M8-8 UR	21.04.05.00350
Connection distributor 1x M12, 8 pol, 1x M8, 8 pol, 1x M8, 3 pol	ASV ECBPi WS-M8-3 WS-M8-8	21.04.05.00361
Connection distributor 1x M12, 8 pol, 1x M8, 8 pol, 1x M8, 4 pol	ASV ECBPi WS-M8-4 WS-M8-8	21.04.05.00362

Accessories		Part no.
Gripper, 50 x 50, foam	RFBP 50 50 BA SPB2	10.01.45.00096
Gripper, 100 x 58, suction cup	RFBP 100 58 BA SPB2	10.01.45.00091
Gripper, 100 x 58, foam	RFBP 100 58 BA O10	10.01.45.00092
Gripper, 120 x 120, suction cup	RFBP 120 120 BA SPB2	10.01.45.00085
Gripper, 120 x 120, foam	RFBP 120 120 BA O10	10.01.45.00086

Technical Data Vacuum Generators ECBPi

Type	Suction rate (max.) [l/min]	Rated power [W]	Voltage [V]	Rated current [A]	Operating temperature [°C]	Weight [g]
ECBPi 12 24V-DC M12-8	12	13	24V - DC	0.6	5 ... 45 °C	775
ECBPi 12 24V-DC TB-8	12	13	24V - DC	0.6	5 ... 45 °C	775

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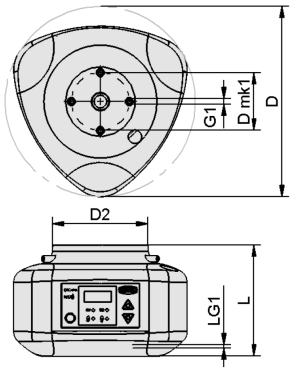

ECBPi

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Design Data Vacuum Generators ECBPi

Type	D [mm]	D mk1 [mm]	D2 [mm]	G1	L [mm]	LG1 [mm]
ECBPi 12 24V-DC M12-8	151.5	46	76	M4-F	88.6	6
ECBPi 12 24V-DC TB-8	151.5	46	76	M4-F	88.6	6

Multimedia product presentation

Medium	Link
Product video	https://vimeo.com/244040924 https://vimeo.com/267546700

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