EMI Modular Vacuum Kit – MPK II

Designed with the best vacuum components to meet the requirements of packaging applications, and the convenience to modify when needed.
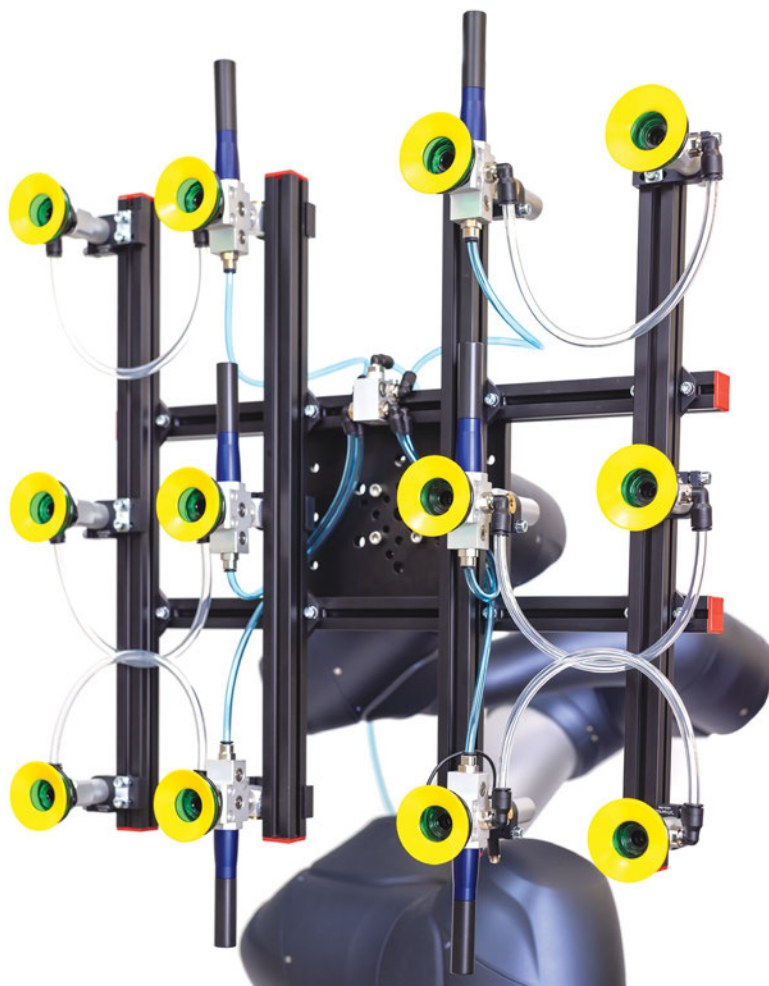
Expanding on EMI offering of vacuum automation products and solutions, our engineers have put together a kit to handle porous materials commonly used in packaging applications. With de-centralized vacuum generators, industry-leading vacuum cups, framing and two mounting plate options, this Kit is a great starting point for your Collaborative Robot to be deployed.

Quick# 8004

Part# CRK-MPK2-A

KIT PRICE: $2,998.00

Modular MPK 2 Vacuum Kit:

- Modular, lightweight aluminum frame with two anodized aluminum mount plates.

- Two sets of vacuum cups included: PIAB Duraflex Dual Durometer and Schmalz Elastodur Dual Durometer.

- Includes an integrated high-flow vacuum generator with a monitoring switch for part confirmation.

- Up to 500mm x 500mm footprint!

- Compatible with our existing line-up of EOAT components.

- Includes EMI's robot plugin and sample CAD models for easy assembly and programming.

- Compatible with multiple cobot mounting interfaces, see page 88.

- Compatible with the quick changers in this catalog.

Easily modify configurations when your application changes!

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Quick# 8004 has been tested for payloads up to 20kg, however, keep in mind that this is very dependent on the material being handled and testing is encouraged.

If you need support from our engineers, contact cobots@emicorp.com to get started with your vacuum packaging application.

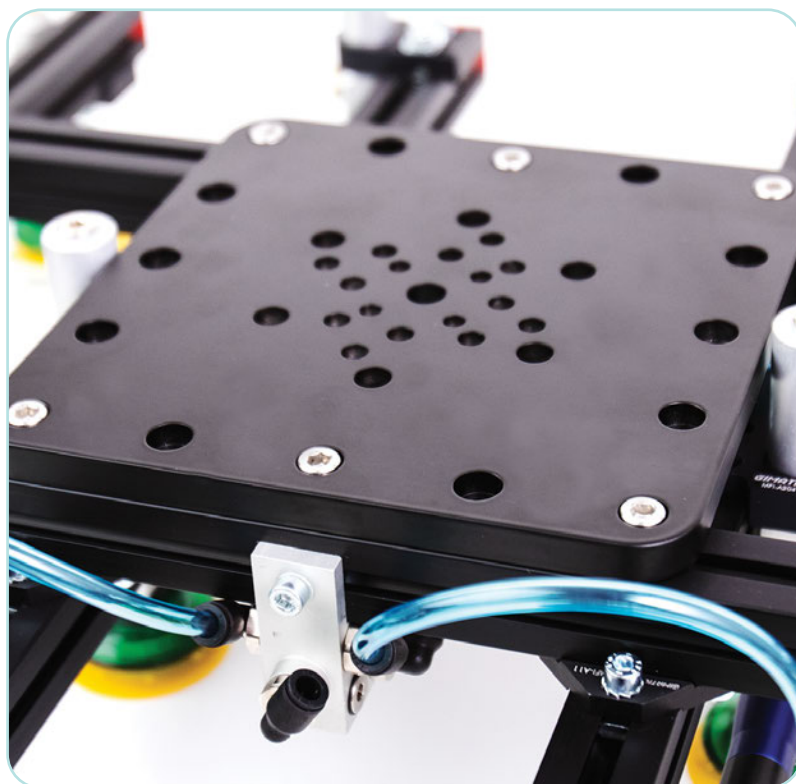**Large Footprint!**

CU

QC

VG

VC

VA

SG

GR

MT

AC

CS

CC

EMI Modular Vacuum Kit – MPK II

Adaptable and versatile!

The MPK II interface plate comes ready for the cobot mounting patterns listed below:

- ISO 9409-1-31.5-4-M5

- ISO 9409-1-40-4-M6

- ISO-9409-1-50-4-M6

- ISO 9409-1-63-4-M6

- ISO 9409-1-80-6-M8

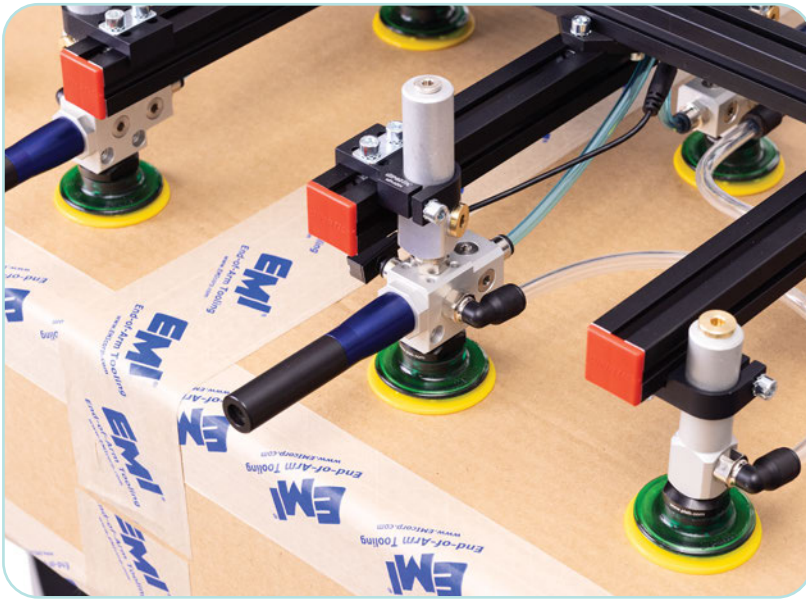- Find a full dimensional drawing on page 72.

Need a mounting pattern not listed? Contact us to discuss!

Setup is easy!

USB drive includes EOAT sample assemblies, and quick start guide.

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Suitable for uneven and porous surfaces such as cardboard, DURAFLEX® suction cups are manufactured in a specially developed material that features the elasticity of rubber and wear resistance of polyurethane. The kit includes 12 cups.

Elastodur® vacuum cups are a durable choice for handling bags and other highly flexible packages as well as cardboard boxes and other rigid packages. The kit includes 12 cups.
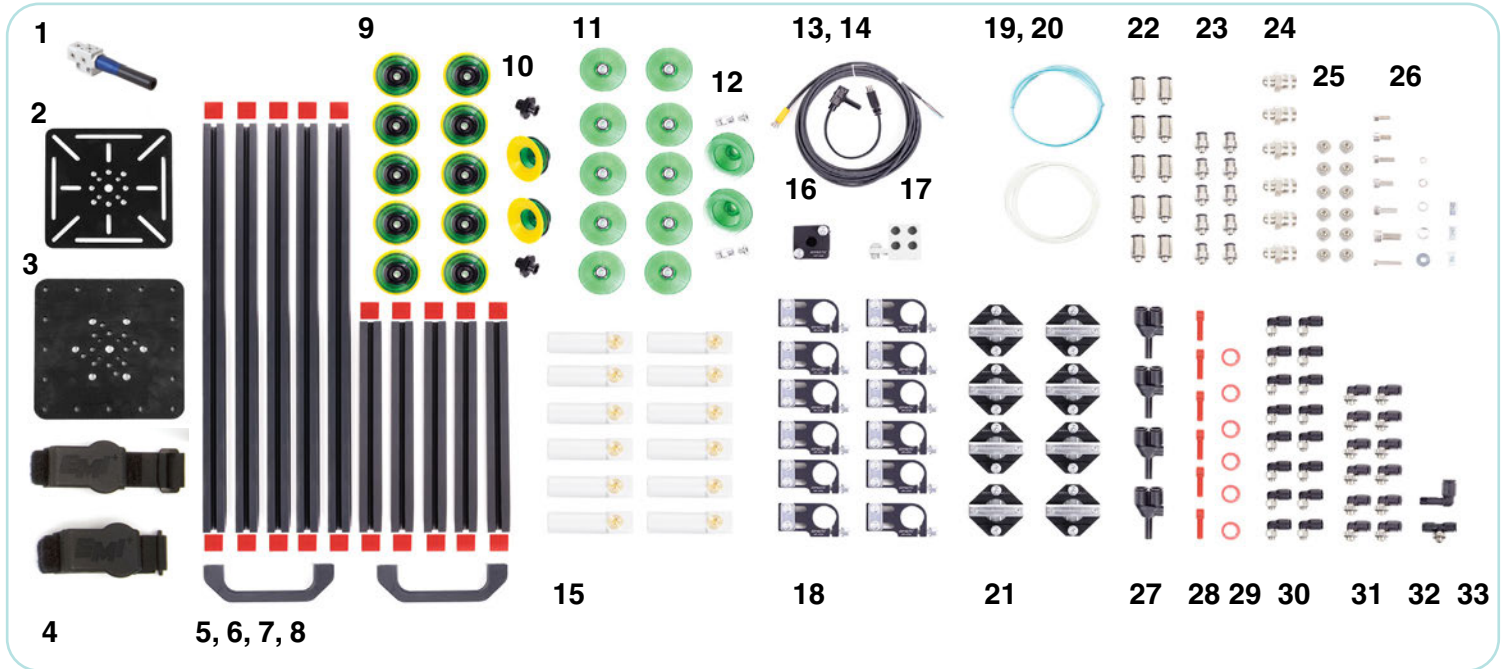
CU
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Shop hundreds of EOAT Vacuum Cups!

EMI offers a wide selection of in-stock vacuum cups to adapt your Cobot Vacuum Kit. We've added a number of new vacuum cups specifically for the automation industry. Contact us if you need assistance with your application.

EMI Modular Vacuum Kit – MPK II

Included in Kit:

Quick# 8015

Quick# 1931

Quick# 8799

Two Cable Management clamps with non-slip Velcro strap are included to keep cables and tubing tidy. See page 262.

Coval® PSK adjustable vacuum switches are compact and ultra-light design and can be installed close to vacuum cups for reduced response times. See page 187.

Schmalz® SBP Vacuum ejector provides powerful but energy-efficient vacuum generation. Find more information on page 172.

A Quick-Start Guide is included with the MPK-2 Kit. This provides all the important info to get your vacuum kit up and running.

Additionally, the kit is broken up into different packages, making it easy to find what you need. EMI's wide offering of EOAT components allows you to expand on the MPK. Check out different vacuum cups, grippers and framing in our EOAT Catalog to make this kit even more adaptable.

EMI Modular Vacuum Kit – MPK II

Modular Profile Kit Bill of Materials

#	Quick#	Part#	Description	Qty.
1	8799	SBP-HV-3-07-13-SD	Schmalz High Flow Medium 3-Stage Vacuum Ejector	6
2	8057	CRM-0337-1A	Multi-Robot Mount Plate	1
3	8063	CRM-0337-2A	Large Multi-Robot Mount Plate	1
4	8015	CRA-CMK-1	EMI Cable Management Kit	2
5	6005	EMF-2525-1000	25x25mm Profile, 245mm Length (6005 = 1m long)	4
6	6005	EMF-2525-1000	25x25mm Profile, 495mm Length (6005 = 1m long)	6
7	6015	MFI-A21	25x25 End Caps (10 pack)	2
8	700	EOAT-HANDLE	EOAT Handle	2
9	5647	GSV-1BDD-52	PIAB Ø52mm 1.5 Bellows Duraflex Cup	12
10	5316	GSV-05AB	PIAB Vacuum Cup Nipple - Male G1/4	12
11	8747	SPB1-60-ED-65-SC050	Schmalz Ø60mm 1.5 Bellows Elastodur Cup	12
12	8742	SC-050-G1/4-AG-MOD	Schmalz Vacuum Cup Nipple - Male G1/4	12
13	2583	GSE-NAN-3F	3-Pin Straight M8 Cable, 5m Length	1
14	1931	PSK-100-D6P	Coval Ø6mm Vacuum Monitor Switch - PNP	1
15	3626	GSE-U-20-1/4-1/8-50	Ø20mm Vacuum Post	12
16	5771	MFI-A66	Manifold Block - 5x G1/8	1
17	3414	VTB2-2-1/8X	Side Manifold Block - 2x 5x G1/8 - X Profile	1
18	5873	MFI-A204	Ø20mm Angle Clamp	12
19	959	GSU-PC-0806	Ø8mm Clear Tubing	1
20	961	GSU-PB-0604	Ø6mm Blue Tubing	1
21	5658	MFI-A11	25x25mm Cross Joint Connector	8
22	106	GSF-QMC-G808	Male Threaded Straight Fitting, Ø8mm Tube, G1/8 Thread	6
23	105	GSF-QMC-G806	Male Threaded Straight Fitting, G1/8 Thread, Ø6mm Tube	10
24	1377	GSF-UN-U8U4	Male to Male Adapter with Seal Rings, G1/8 - G1/4	6
25	1388	GSF-TPP-U8	G1/8 Threaded Plug	12
26	-	-	Misc. Hardware and Channel Nuts	-
27	179	GSF-QPY-08	Plug-In Y, Ø8mm Tube	4
28	193	GSF-QP-06	Ø6mm Push-in Plug	6
*	194	GSF-QP-08	Ø8mm Push-in Plug	6
29	244	GSF-G-G8	Seal Ring, G1/8	6
30	121	GSF-QME-G806	Male Threaded Push-in Elbow, G1/8 Thread, Ø6mm Tube	16
31	122	GSF-QME-G808	Male Threaded Push-in Elbow, G1/8 Thread, Ø8mm Tube	12
32	167	GSF-QPE-06	Plug-In Elbow, Ø6mm Tube	1
33	145	GSF-QBT-G806	Male Threaded Push-In Tee, G1/8 Thread, Ø6mm Tube	1

Contact EMI for hardware and 3D-printed components.   **Part not shown.*