Here’s why.
Robots and robotic tooling help you increase productivity, improve product quality, and reduce costs. The right End-of-Arm Tools (EOAT) can improve both the flexibility and cost effectiveness by working with and complementing the robot. Vaccon designs vacuum tooling using modular components that are compact, lightweight, durable, and easy to assemble. This creates flexible, streamlined End-of-Arm Tooling that works in harmony with the robot.

As experts in vacuum equipment design for manufacturing automation applications, Vaccon helps customers find solutions for their material handling problems by creating new tools, re-designing existing tools or re-building systems. Take advantage of our years of engineering expertise to quickly design, build, and re-tool your robotic EOAT to ensure safe part handling, extend the life of the robot, increase production, and reduce costs.

Work in reverse, design “the tool” first before selecting the robot.
Focus on key aspects of the part to be handled (i.e. weight, porosity, travel distance, desired speed, etc.)

For new applications, we highly recommend that you design the EOAT before selecting the robot. Knowing the load (the combined weight of the part and the EOAT) helps you to choose the optimum robot for the job.

For re-tooling applications when the robot is already in place, carefully consider the load limits of the robot.

Optimum EOAT Design Sequence:
1. Identify the part weight, size, material porosity and surface area for cup placement on the part.
2. Select cups and/or levelers based on accepted Safety Factors (see page 11.3)
3. Select the vacuum pump(s) based on performance and porosity (see page 11.4)
4. Select the Vaccon EOAT components required for your application.
5. Assemble the EOAT or
6. Vaccon will design, assemble, test and ship the completed EOAT to you.

Vaccon EOAT Application Engineering Support
Our dedicated application engineers are ready to help you to select the right components or to design, assemble, and test the EOAT. Vaccon customer support provides:
• Experts in vacuum technology
• Experts in manufacturing
• Experts in automation applications
• Experts in pneumatic design
• Free 2D & 3D drawings of all components or build your own using Vaccon's website or CD.
Vaccon End-of-Arm Tooling

All EOAT products are compatible with 1” [25mm] and 1.5” [40mm] extrusions

Vaccon’s modular End-of-Arm Tooling components offer everything you need to create a complete “wrist-down” EOAT for your material handling operations. The EOAT innovative component design is modular, lightweight, compact, and easy-to-connect. Using EOAT, you can integrate vacuum pumps, vacuum cups, spring levelers, fittings, and manifolds using simple erector-set connectivity in minimum design time.

EOAT Components or Complete EOAT Solutions

You can order EOAT products separately and build your own tooling, or purchase a complete pre-built EOAT solution—fully configured, plumbed, and tested. EOAT solutions ship assembled using one robot-to-EOAT connection for easy, out-of-the-box installation.

Eliminate the Guesswork: Contact Us!

Vacuum technology isn’t an exact science. To ensure proper product selection, Vaccon offers free application engineering assistance, a 30 Day Test & Evaluation Program or you can send sample products to our in-house test facility and we will test and size a pump for you.

To download a complete set of drawings in multiple CAD formats, please visit our website at www.vaccon.com

For more information or technical assistance, please call 508-359-7200 or 800-848-8788 or email engineering@vaccon.com
**Modular Venturi Vacuum Pumps**

- Modular Venturi Vacuum Pumps
- Modular Venturi Vacuum Pumps with Pneumatic Blow-off
- Modular Venturi Vacuum Pumps Solenoid Operated with Pneumatic Blow-off

**Multi-port Venturi Vacuum Pumps**

**Mid Series Modular Venturi Pumps**

**Max Series Modular Venturi Pumps**

**Vacuum Cups**

- Bellow Cups
- Oval Cups
- Flat Cups
- Deep Cups

**Vacuum Plenums & Grippers**

For more information, please see page 11.37 in the Cups & Fittings section.

- Plenum Blocks can be ordered in any size, shape or material. Consult factory.
- Custom Dual Plenum w/ CDF 1000H picking up foam inserts
- Custom Plenum w/ VDF 250 picking up packages of gum balls

Phone: 1-800-848-8788 or 508-359-7200   E-Mail: engineering@vaccon.com
Mounting Brackets for 1” [25mm] Extrusion fits 1/4” [6.5mm] T-slot

Universal Bracket (Fixed) with optional mounting hardware

Universal Bracket (Adjustable) with optional mounting hardware

Angled Universal Bracket with optional mounting hardware

Mounting Brackets for 1.5” [40mm] Extrusion fits 5/16” [10mm] T-slot

Universal Bracket (Fixed) with optional mounting hardware

Universal Bracket (Adjustable) with optional mounting hardware

Angled Universal Bracket with optional mounting hardware

Vacuum Cup Mount/Manifold

Can be used with Vaccon’s VDF, CDF and DF Pumps. See page 12.28

MB18-25
For 1” Extrusion Only

MB14-40
All Female Ports

Male Face Mount MBF14-40 Series

Male Bottom Mount MBB14-40 Series

Male Bottom Mount with Oval Cup
Light Duty Spring Leveler Brackets

*Spring leveler brackets and hardware for 1" (25mm) extrusions*

*Fits VSL1 & 2 Spring Levelers*

*Spring Leveler Brackets for 1.5" (40mm) extrusions (hardware not shown)*

*Fits VSL1, 2 & 3 Spring Levelers*

Spring Levelers/Level Compensators and Swivel Joint

*Spring Levelers VSL1, 2, & 3 Series*

*Heavy Duty Spring Levelers SLB40-2, 3 Series*

*Adjustable, Fixed Extension Shaft and Bracket – FEB40-2, 3 Series*

*Vacuum Cup Locking Angle CSJ3 Series shown with Bellows cup*

Push-to-Connect Fittings for Vacuum Pumps and Spring Levelers

*Male Straight Fittings*

*Female Straight Fittings*

*Male Elbow Fittings*

*Female Elbow Fittings*