

Workholding for flat & thin workpieces.

The new VacuMate™ from Datron is designed to swiftly and efficiently secure flat workpieces to the bed of a machining system. Thin stock, which could be secured only with great difficulties before, is now secured literally within seconds. Quickly secure plastic foils as thin as 0.001"; to 0.250" large aluminum sheets.

Welcome to the next generation, of Smart Workholding Solutions.

Workholding applications:

- Flat & thin aluminum stock
- Polycarbonate & other plastics
- Metalphoto® & nameplates
- Thin substrates & foils
- Anything flat

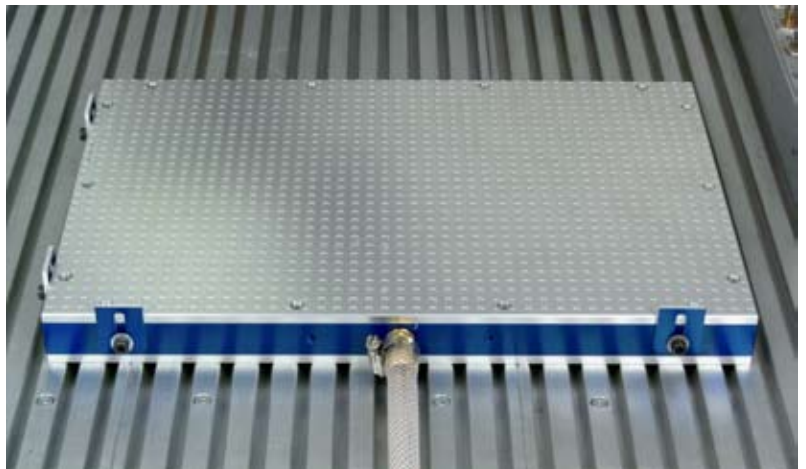
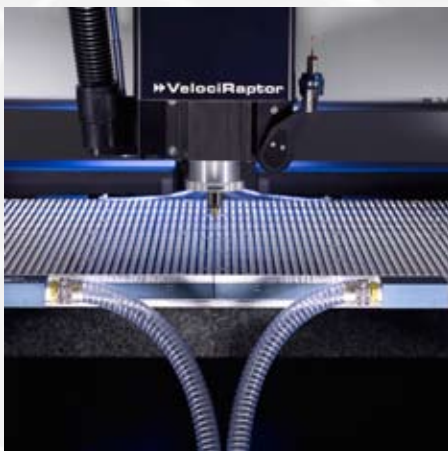
How it works:

The VacuMate workholding system consists of 3 basic parts, working together:

- 1) A vacuum pump
- 2) 4 vacuum table segments, for a 36"x 24" area
- 3) Low cost, sacrificial gas permeable substrate

The vacuum pump provides vacuum power for the system to work. The vacuum table features airflow-optimized vacuum ports, with recessed vacuum chambers, to provide superior vacuum distribution.

The low cost gas-permeable substrate serves as a sacrificial vacuum diffuser, allowing the cutter to machine through the workpiece, without cutting into the table.



Next generation

smart workholding solutions:

- Eliminate using adhesives for workholding
- Maximum holding power over entire surface area
- Swiftly mount anything flat
- Eliminate special workholding for irregular shaped parts
- Finally a way to secure thin stock
- Faster setup and change-over times
- Easy to use
- Cost effective
- Increase production flexibility

← Four VacuMate segments together makes QuadraMate.
A massive 36" x 24" work area — vacuum-powered for quick and easy job set up and change over!

Secures thin material & protects the machine bed.

Call toll free 888.262.2833



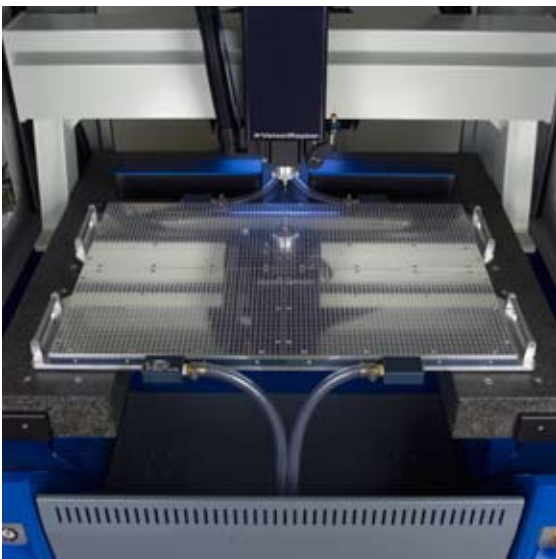
You can never have too much space.

Designed for a size of 36" x 24", using 4 segments, the VacuMate™ provides ample space for large flat panels. A single segment with 18" x 12" might be suitable for smaller sized panels. Each segment can be vacuum powered separately. The vacuum zones allow to adapt to different size stock and to maximize the vacuum holding force.



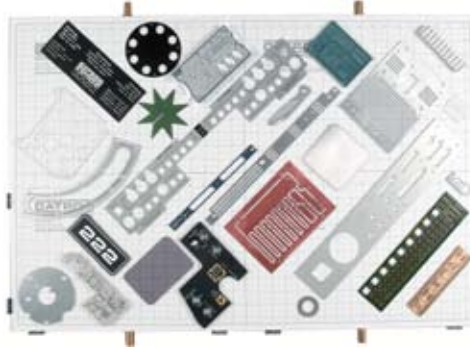
Customer-driven development.

Datron developed VacuMate in cooperation with our customers. VacuMate allows efficient machining of materials that could only be mounted with great difficulty before. Job setup time savings of 80% are common in utilizing this new technology.



Machining and die-cutting in one step.

The VacuMate is designed to secure flat stock to the machining bed. Quick-tabs allow swift registration of stock material. Once your stock is on the VacuMate, turn on the vacuum, and the part is secured. Several machining operations can now be performed in one step. Operations such as milling, drilling, engraving, thread-milling, die-cutting, and de-burring can be performed in one step.



Who would use it?

Designed to safely and swiftly secure flat stock to a machine bed, applications are quite numerous. Ranging from flat aluminum panels over plastics and composites to ultra thin material for the identification industry, anyone using flat stock will appreciate the time savings and the flexibility of the VacuMate.

Tech Specs	VacuMate
System size (4 Segments)	24" x 36" (larger area also possible)
Segment size (each)	18" x 12" x 1.5"
Segment weight	approx. 15 lbs
Mounting	(4) 1/4" bolts
No. of vacuum ports	1,350 per segment
Top plate thickness	0.250" (replaceable)
Vacuum connection	0.750" ID hose
Required vacuum power	25 CFM per segment
Substrate size	24" x 36" x 0.025"

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