

## If you want abrasive dust to disappear, use the Vortex™.

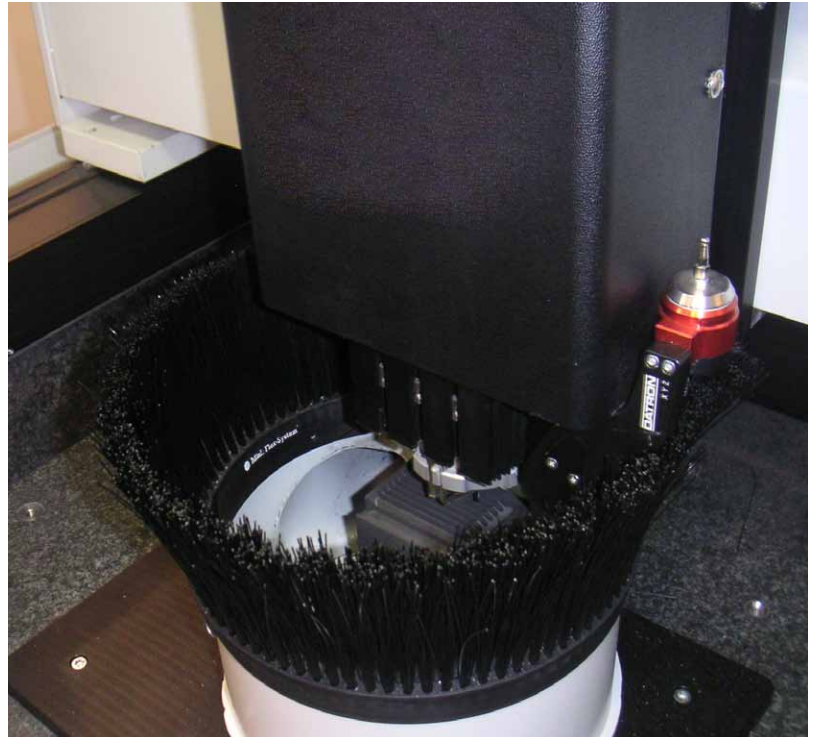
Other equipment manufacturers may tell you that working with graphite is the same as any other substrate. The reality is that processes like redressing graphite ram EDM dies and machining electrodes produces an abrasive dust that can be damaging to CNC machines and reduce their efficiency. That's why Datron has engineered The Graphite Vortex™ specifically for your unique application and environment. The Vortex™ is seated and secured to the machining table using our proprietary Quick-Pallets™ technology. A cylinder surrounds the workpiece and machining spindle. Dust falls into a cylinder that features a spiral (or vortex) airflow so that dust keeps moving and never has a chance to settle in.

When graphite dust settles on surfaces, it becomes stubborn and is hard to remove. That's why Datron engineers developed a way to keep the dust swirling in a spiral air flow. The cylinder and suction hose on The Graphite Vortex™ feature a special geometry to create a vortex effect.

An industrial brush head extends the height of the vortex to capture stray particles, while at the same time, allowing the spindle and probe to move in and out of the machining area — without restricting their movements.

### Applications:

- Graphite machining
- Plastic machining
- PCB routing & drilling
- Machining ceramics



### Superior dust management & removal:

- Available in a variety of sizes
- Secure Quick-Pallet base
- Suction cylinder
- Suction hose (77mm)
- Industrial-strength brush head
- Enclosure exit for hose
- Modified enclosure for optimum airflow
- Vortex™ (Spiral) airflow

**Graphite is no longer a "Dirty Business"**

**Call toll free 888.262.2833**

**WARNING:** Utilizing the power and flexibility of **DATRON** with The Graphite Vortex™ may be hazardous to your competition.

# The Graphite Vortex™

## Machines Made for Milling Graphite:

We've gone to great lengths to protect our machines from abrasive dust. On various models, the linear guide ways and precision ground ball screws are covered and feature positive airflow as well as an automatic greasing system that forces any debris out of the machines' working parts. A 60,000 RPM spindle is pressurized to prevent any dust from entering the bearings. The enclosure is designed for optimized airflow and can easily be fitted with a dust collector or your existing dust collection system to keep airborne dust in check. Plus, our compact design, together with the 208V-7 Amps power requirement, allows it to be placed right next to your ram EDM machine.



### DATRON M7GR (above)

#### A compact machining system made just for graphite.

This compact machining system is the same as the DATRON M7 except with an added protection kit for machining abrasive materials. Covered linear guidances and ballscrews with positive air flow ensures that no abrasive or harmful materials can get into the motion mechanics of the machine. Sealed housing for all motion control electronics and motors also protects against contamination of the machine control system. The full enclosure complete with safety lock is equipped with a connection to an air flow system for dust extraction. This machining system is ideal for machining materials such as graphite, glass-fiber composites, ceramics or any hazardous or abrasive material.

#### Applications:

- Embossing and hot stamping dies
- Steel and brass stamps
- EDM electrodes
- Roll dies
- Moldmaking
- Micro drilling



## Superior dust management & removal:

- Covered & protected linear guides & ball screws
- Pressurized 60,000 RPM Spindle
- Automatic greasing forces debris out of working parts
- Industrial enclosure with safety lock-out
- 208V-7 Amps so it can sit next to your ram EDM machine
- Vortex™ (Spiral) airflow

