



# SAS FLIGHT FACTORY™

## Wire EDM Machining

The Mitsubishi MV2400-S Wire EDM machine greatly enhances SAS Flight Factory's existing production and prototyping capabilities.

The machine's repeatable cutting accuracy and its capability to cut both extremely hard and very small work pieces reinforces SAS' reputation for developing high quality parts and precision components.

### Benefits of Wire EDM machine cutting

- **High accuracy cutting:** It is more accurate than flame cut, laser or plasma cutting.
- **Cuts complex shapes easily:** The wire can create a wide variety of shapes, including intricate contours and holes without needing to heat the material for softening and hardening.
- **No impact:** It allows the machining of hard, brittle and fragile materials without impacts and stresses, meaning less distortion in the cut material.
- **Fast processing:** It produces high tolerance parts without distortion, removing the need for additional processing and finishing of parts after machining.
- **Cost effectiveness:** It produces less waste and is a one-step process. These productivity gains make it a more cost-effective option.

### Features of the Mitsubishi MV2400-S Wire EDM machine

- Linear Shaft Motor Drive ensures friction-free, highly accurate machine movement.
- Highly Rigid Machine Structure incorporates a fixed table meehanite base casing with the X, Y, Z axes traveling column mounted, a stainless-steel work tank, seal plate and hardened stainless steel machine table.
- The V350-V power supply and DMX-S, Super Digital control sensor, shape each spark to improve surface finish and reducing edge softening.
- A newly configured grounding system improves current flow from the hardened 3-sided worktable to enhance roughing speed and improve standard skim cut finishes.

### About SAS Flight Factory

Our services start with specialty design, proceed to prototype, then advanced manufacturing, assembly and testing. Our highly qualified industry experts and engineers pride themselves on the substations they assemble and industry partnerships they create.

The 25,000 square foot SAS Flight Factory building includes a dedicated 5 axis mill area, a Wire EDM machine, dedicated warehousing, 3D printing/additive manufacturing area, and classified-capable assembly and packaging areas.

As an AS9100D certified company, we are known for high standards of quality control, excellence and on-time delivery of components and subsystems.

*Turn over for a full description of our capabilities.*



### SAS Flight Factory™

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# SAS FLIGHT FACTORY™

## DESIGN FOR MANUFACTURING

- Complete CAD/CAM Design
- Specialized Hardware Design
- Design for Manufacturing Optimization
- Utilization of Advanced ERP Systems
- NX, Solidworks, Ansys

## PRODUCTION

- Space and Aviation Dedication
- 5 Axis High Speed Machining
- Aerospace Tolerances
- Subsystems and Components
- Dedicated client Sells

## PROTOTYPE

- Rapid models
- 3-D printed models
- CNC models
- Space and Aviation Dedication
- 5 Axis High Speed Machining
- Aerospace Tolerances
- Subsystems and Components

## TESTING

- IAT- Initial Acceptance Testing
- Integrity, Reliability and Traceability
- Technical Excellence
- Proof Pressure Testing

## ASSEMBLY

- AS9100 Rev D Assembly
- Precision Clean
- Components to Full Systems
- Classified Assembly Capable

BOULDER | CAPE CANAVERAL | HOUSTON | HUNTSVILLE | WASHINGTON, D.C.

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