

To support our full-service engineering ethos, Hallmark Fabrication operates high-precision CNC machining departments. The Haas VF2 is an industry-leading Vertical Machining Center designed for rigid, high-accuracy 3-axis profiling, pocketing, drilling, and tapping. From solid billet machining to secondary machining operations on laser-cut or cast components, the VF2 provides outstanding surface finishes and close-tolerance dimensions.

MACHINING ENVELOPES & TECHNICAL SPECIFICATIONS

AXIS PARAMETER / CAPABILITY	WORKING SPECIFICATION RANGE
X-Axis Travel (Longitudinal)	762 mm
Y-Axis Travel (Cross / Width)	406 mm
Z-Axis Travel (Vertical / Height)	508 mm
Table Working Surface Dimensions	914 mm × 356 mm
Maximum Weight on Table	1361 kg (Balanced Load)
Spindle Drive & Speed	30 hp (22.4 kW) Inline Direct-Drive Up to 8,100 RPM
Tool Changer Capacity	20-Station Carousel Tool Changer
Positioning Precision	Accuracy: ± 0.005 mm Repeatability: ± 0.003 mm

MATERIAL PROFILE COMPETENCE

MATERIAL CATEGORY	COMMON APPLICATIONS
Aluminium Alloys (6082-T6, 2014, etc.)	Enclosures, heatsinks, bracketry, and structural blocks.
Steels & Stainless Steel	Heavy brackets, mechanical links, tool-dies, and pins.
Yellow Metals (Brass / Copper)	Busbars, specialized electrical contacts, and custom fittings.
Engineering Plastics (Delrin, Nylon, PEEK)	Insulators, wear pads, bushes, and prototype housings.

ADVANCED MACHINING FEATURES

- **Rigid Tapping:** Synchronized spindle rotation and feedrate ensures perfectly clean, high-speed internal threads without thread deformation.
- **High-Speed Machining Profiles:** Advanced look-ahead code paths execute high-feed texturing, profiling, and complex pocket geometries efficiently.

Ready to start your next machining or fabrication project?

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