

Metalworking Brochure



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DVF 8000T Vertical Machining Center



- *5 Simultaneously controlled axes (X,Y,Z,A,C) with high precision*
- *10,000 rpm main spindle (HSK100T)*
- *Ball screw shaft cooling for increased accuracy during long cycle times*
- *600 rpm, direct drive turning spindle (C-axis)*
- *Z-axis thermal compensation by multiple temperature sensors and proprietary compensation algorithms for increased precision*
- *Spindle oil chiller*

Looking for unparalleled precision and performance in your machining operations? Look no further than the DVF Series of 5 axis Vertical Machining centers. The one-piece Meehanite cast iron bed is engineered to absorb vibrations with unparalleled efficiency ensuring a stable foundation for your precision work. Equipped with linear glass scales on X, Y and Z helps to mitigate inaccuracy from thermal growth. Unleash the full potential of your machining operations with the DVF 8000T.

DNM 4500 Vertical Machining Center 4th

High Productivity Global Standard Vertical machining center. Used by numerous customers around the world, the DNM series is a global bestseller that represents the culmination of DN Solutions' fifty years of technology and know-how, and is a market leader with the highest productivity and durability in its class. With DN Solutions' 4th DNM series, you will experience unrivaled reliability.

- *Best-in-class productivity and reliability*
- *Direct-coupled spindle adopted*
- *ECO-Friendly*
- *Improving Operational Convenience*
- *Multi-Level AWC*





DHF 5500 Series



- Simultaneous 5-axis machining with exceptional precision
- Continuous machining of medium to large parts
- Stable performance for prolonged machining

Highly reliable 5-Axis Horizontal Machining Center that delivers stable machining performance.

This horizontal machining center features a high-rigidity structure based on a horizontal spindle combined with a tilting rotary table, delivering stable machining performance and great reliability even in heavy-duty cutting environments. In addition, its high-precision positioning control and thermal deformation suppression technologies ensure consistent quality in the machining of complex geometries.

SMX 2100 ST Milling/Turning Center

- FANUC 31i-B5 with CUFOS 5 axis simultaneous control with swiveling operator's panel and large LCD display
- Optional SIEMENS SONE 5 axis simultaneous control with swivelling operators panel and large LCD display available
- 5,000 rpm - 22 kW \ 30 hp digital AC integral spindle motors with spindle chillers for temperature control and thermal growth compensation
- Automated part unloading system with barfeed interface standard.
- Fast (1,890 ipm) Z axis rapid traverse



The Puma SMX2100ST multi-task milling/turning centers are designed for heavy and interrupted cutting, long-term high accuracy and superior surface finishes. High-speed tool change and turret indexing combined with fast rapid traverse rates minimize non-cutting time. C-axis contouring, Y-axis off-center, and B-axis any-angle milling/drilling allow for single set-up completion of highly complex workpieces. Same-size integral motors on both left and right spindles provide improved performance and flexibility. Multi-tasking capabilities increase productivity and provide just-in-time production requirements by reducing lead time, changeover time, set-up time, and time between operations.



SVM 5100L Vertical Machining Center

The SVM 5100L vertical machining center has been developed to meet the increased demand for machining of aluminum die-castings in both the Automotive and IT industries. In addition, it can be used for general-purpose light-duty machining of steel parts. The machine's performance has been optimized to provide shorter cycle times by reducing the acceleration/ deceleration times of the XYZ axes and spindle, thereby minimizing the non-cutting time.

- FANUC Oi-Plus control with iHMi touch screen interface
- High precision, direct drive spindle
- Meehanite cast iron bed with (5.5/18.5 kW \ 7.4/25 hp motor, 12,000 rpm)



CubeBOX



CubeBOX Blues DR



Unlock the full power of efficiency with CubeBOX

Introducing the most efficient way to bring full automation to any Lathe or Mill machine. From loading & unloading, the Cubebox brings another level of affordable automation. Supports integration of additional processes and accessories, including deburring, cleaning, and inspection of parts. Cubebox has a variety of models with a flexible system that can be integrated to suit your needs, from high-mix low-volume to dedicated production in a competitive market.



You can use the **CubeBOX ServoDOOR** double door, double unit model for your double door CNC machines. We have models equipped with servo motors.

ROMI C 1000 & C420 CNC Lathes

Designed to operate in environments of medium and high production, the ROMI Series has high power and torque. Its robust structure is ideal for machining at full power. It offers high rigidity even during severe machining operations. Thermal and geometric stability, grants accuracy, high performance and productivity. The quality of the manufacturing

processes grant's reliability and operational efficiency of ROMI machines. Projected in 3D CAD system, the entire structure of the ROMI SERIES is dimensioned by Finite Element Analysis software (FEA), resulting in adequate structures for each machine size.

- Main motor: 45 hp / 33.6 kW
- Tailstock positioning system by drag device with saddle and manual drive quill (built-in)
- CNC Siemens Sinumerik 828D with high performance and reliability
- Geared headstock with two speed ranges: 250 rpm (range 1) and 1,000 rpm (range 2) - ASA A2-11"

ROMI C 1000 CNC Lathe



ROMI C420 CNC Lathe

- 12.5-Horsepower AC main motor (Continuous)
- 4,000-rpm (A2-5") or 3,000-rpm (A2-6")
- Advanced intuitive programming system
- USB, Ethernet and Compact Flash ports
- CE Fully enclosed splash guard
- 3 Mb Program memory

Wire EDM Machines

When conventional cutting can't hit the tolerance, wire EDM can. MC Machinery's Mitsubishi wire EDM lineup uses electrically charged wire to cut hardened materials and intricate geometries with no mechanical cutting force — meaning zero part distortion, sharp internal corners, and fine finishes with minimal secondary work. It's the go-to technology for aerospace, tool and die, automotive, and medical manufacturing.



Pictured: the MV1200-S Advance Type M800

- Cuts hardened materials with zero distortion
- Extreme precision on complex geometries
- Sharp internal corners, fine finishes
- Reduced secondary finishing time
- Remote360 monitoring across the lineup

Sinker EDM Machines

Where wire EDM cuts through a part, sinker EDM burns complex cavities and 3D forms directly into it using shaped electrodes — ideal for injection mold tooling, dies, and detailed components in hardened materials. Smooth surface finishes straight off the machine reduce polishing and rework.

Pictured: the SG28 Sinker EDM

- Complex 3D cavities in hardened materials
- Ideal for mold, die, and tooling work
- Smooth finishes reduce polishing and rework
- AI-driven controls cut machining time
- Remote360 monitoring across the lineup



Industrial Robotic Experts

Source Atlantic offers automation solutions using Fanuc industrial robotics to enhance a machine shop's speed and precision.

Source Atlantic has the ability to implement co-bots that work in the same space as machining personnel safely. Not only will we find the right machine, but we will also install and offer maintenance and repair services to keep you at peak performance.

Our machining specialists have over 100 years of combined machining experience to help you avoid downtime and operate your business at its highest capacity.

FANUC products are backed by production lifetime support.



Are you having trouble finding skilled labor to man your CNC machines?

At Source Atlantic we have a team of Fanuc-trained staff knowledgeable from CNC applications to robot programming to help transform your CNC to an automated cell.

Give your local Source Atlantic representative a call to learn more about automation.

CoroMill® MS 60

True versatility in shoulder and face milling operations. Efficiency at a low cost. Featuring 6 indexing options, this tool offers a cost-effective solution, ensuring exceptional efficiency across various milling operations.

- Shoulder and face milling in steel and cast iron
- True 90° shoulder milling
- Ramping capability
- Double-sided insert concept with 6 cutting edges per insert
- Internal coolant



CoroMill® MR 20

Performance and predictability in every cut. Controlled profiling with unmatched stability and security. When machining high-value components, process reliability and predictability are non-negotiable. CoroMill® MR20 delivers just that – trust in every cut.

Its innovative design ensures superior stability, enabling secure operations and consistent results. Watch CoroMill® MR20 in action and experience trouble-free profiling versatility, while boosting process productivity and confidence.

- Innovative insert seat design with superior stability and easy indexing improves process security
- Robust interface minimizes insert micro-movements, ensuring secure, trouble-free machining
- Tight cutter body tolerances guarantee predictable and progressive insert wear for improved surface quality
- Optimized geometries tailored for ISO S, ISO M, and ISO P materials
- Under-coolant system extends tool life
- Thick and robust insert body ensures high security and reliability



MTMH3-Z Helical Drill/Thread

Helical Drill/Thread Milling Into Solid Material Up to 66 Hrc

The new helical drill/thread milling cutter for high strength and hardened steels up to 66 HRC combines core hole and thread production in one tool. Thanks to the left cutting geometry the tool stabilizes itself during the climb milling process – perfect gauge threads up to 66 HRC are guaranteed. The MTMH3-Z guarantees process reliability and true to gauge threads.



Thanks to the special face geometry, the threaded hole is generated from solid using a single tool with a safe, reliable process.



Thanks to the left cutting geometry the tool stabilizes itself during the climb milling process - perfect, true to gauge threads up to 66 HRC are guaranteed.

The MTMH3-Z is made of a special fine-grained carbide, which is characterized by its high hardness and is optimally suited for hard machining.

Two oil grooves on the shank ensure optimum cooling with emulsion or air.



- **Process reliability guaranteed.**
- **Excellent machining results in dry and wet machining.**
- **Core holes and threads in one step: significantly shorter cycle and setting time.**
- **Universally applicable in unhardened and hardened materials up to 66 HRC.**



SMW-Autoblok APS Zero Point System

- Fully sealed (proofline)
- Highest stiffness by means of 3 clamping slides
- Low installation height due to the compact design
- Highest process reliability and repeat accuracy <0,005 mm
- Significantly reduced costs due to reduced set-up times

The development of the APS zero-point system was born out of a need to improve upon what was already existing in the market. This system was advanced to stand out and offer additional benefits to users that need a more robust and reliable zero-point system.

SMW-Autoblok included design advancements like jaws with double included plane which generates the “pull down” effect and piston with integral inclined planes. This system is the only system that boasts of having 3 clamping slides. These 3 slides set at 120 degrees aids in centering, vibration dampening and gives higher accuracy for repeatability.



Amada Band Saws

HFA460P Band Saw

Experience the pinnacle of precision cutting with the HFA460P. With its unparalleled speed range, achieved through a frequency inverter drive and heavy-duty work gear transmission, the HFA460P ensures optimal cutting performance across a wide range of materials. Its hydraulic clamping and carbide blade guides reduce blade stress, extending blade life while maintaining cutting accuracies of + .002 per inch. Operators can effortlessly control feed rate and down pressure independently, thanks to the intuitive color-coded dial, ensuring swift and accurate cutting for every job. Equipped with an MPC programmable control system, the HFA460P allows seamless programming and storage of up to 100 jobs, enhancing versatility and automation.



HFA250W Horizontal Metal Cutting Band Saws

The HA250W features a "C" section frame that carry the mountings for the two band wheels, heavy-duty worm gear drive reducer, blade drive motor, and saw guide arm mounting supports. The result is an extremely rigid structure that delivers efficiency, economy, and large capacity cutting for all types of metals. Featuring a hydraulic-powered shaftless chip conveyor for chip removal and coolant separation. Greatly reduces cleanup time and enables the machine to run longer without operator cleanup.



Castrol® Hydraulic Fluid

Your Advantage in an Industrial World

Castrol understands the importance of choosing the right hydraulic fluid for your fleet. That is why we offer a wide range designed to protect and improve the efficiency of various hydraulic systems. Castrol's Liquid Engineers have developed a range of hydraulic fluids to meet performance standards required by Original Equipment Manufacturers (OEMs). These include products that meet recent changes in hydraulic fluid formulation driven by industry trends and OEMs:

- Improved oxidation stability to accommodate higher operating temperatures.
- Improved air release, foam control and water separation to handle smaller reservoirs and reduced cycle times.
- Improved dry/wet filterability due to reduced filter pore size and tolerance to water contamination
- Better hydrolytic stability to handle water contamination.



Castrol® Hysol® 33 FF

Cost-effective performance across multiple metals

Hysol 33 FF is a high-performance semi-synthetic metalworking fluid built for versatility across multiple metals. Whether you're machining steel, aluminum, or other alloys, it delivers consistent results with excellent lubricity and cooling. Backed by Castrol's trusted reputation, Hysol 33 FF offers premium performance at a cost-effective price—making it the smart choice for shops that demand quality without compromise.

- Consolidate fluids and eliminate the risk of top-up errors while simplifying inventory
- Extend sump life to reduce downtime and manpower for coolant changeout
- Reduce foam over in recommended water conditions
- Avoid the need for tank-side biocides with an integrated additive for microbial resistance
- Deliver consistently high quality surface finishes balanced with efficient production



Ideally suited for General Machining and Grinding

Hysol 33 FF is specifically developed for shops seeking a single fluid solution with broad multi-metal compatibility. By enabling the use of one fluid across various materials, it helps streamline operations, reduce the number of coolants in use, and minimizes the risk of cross-contamination or errors during top-ups. With fewer coolant changeouts required, shops benefit from reduced downtime and less manpower dedicated to maintenance—boosting productivity and operational efficiency.

Helping You Tackle Complex Machine Shop Challenges



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CNC Machine and Automation Solutions

At Source Atlantic, we understand the complexities of manufacturing and the importance of having a dedicated team by your side. That's why we've compiled a specialized team tailored to meet all your CNC Machine Tool supply, repair & maintenance service needs.

Reach out today for more information
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