

WINTER

Metalworking
Brochure



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AMADA

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DN SOLUTIONS



Castrol



GUHRING



The Puma V8300 is a heavy-duty vertical turning center with a column-integrated box guideway and reinforced bed frame, resulting in a strong rigid structure and increasing the rapid traverse to 20 m/min. The wide machining area allows for larger more diverse work pieces. When combining this with DN Solutions optional ATC (Automatic Tool Changer) you can change tools throughout the job, minimizing downtime and resulting in increased productivity and profits.



Scan or click to see a video on the Puma V8300

- One-piece Meehanite bed.
- Vertical design for easy loading – programmable auto door is standard.
- Large 32.68" maximum turning diameter.
- 30.7" maximum turning length.
- Unexpected disturbance torque detection function.

DVF 4000 5 Axis-Machining Center

The DVF 4000 is optimal for the production of small to medium complex workpieces in any industry with its high-speed spindle and solid column structure table. The DVF is capable of 5 axis machining and features grease/lubrication application on X/Y/Z axis for cost saving operations.

- 15,000 rpm direct drive spindle.
- 5 Simultaneously controlled axes (X,Y,Z,B,C) with high precision.
- Tool Load Monitoring and Adaptive Feedrate Control.
- Fast rapid traverse rate (XYZ - 36 m/min \ 1,417 ipm).
- Spindle orientation, load meter, override, and rigid tapping.

Scan or click to see a video on the DVF 4000





- 4,000 rpm main spindle - 22 kW / 30 hp high speed - high torque integral main spindle motor
- 14.8" maximum turning diameter.
- Fast 1,181 ipm Z axis rapid traverse
- EZ Guide I Conversational Programming
- Tool Load Monitoring System

Puma 2600SY/Lynx 2100SY turning centers are designed for long-term high accuracy and superior surface finishes. High speed turret indexing and ultra-fast rapid traverse rates minimize non-cutting time. Mill-drill capability and Y-axis with a full C-axis sub spindle greatly reduce the need for secondary operations, eliminating additional set-up and handling costs. Classic manufacturing methods and ultra-rigid construction are combined with advanced technological features to provide exceptional value.



Scan or click to see a video on the Puma 2600SY

Lynx 2100SY Turning Center

- High speed 6,000 rpm spindle
- Large 11.8" maximum turning diameter.
- Fast 1,417 ipm Z axis rapid traverse
- EZ Guide I Conversational Programming.
- Tool Load Monitoring System.



Scan or click to see a video on the Lynx 2100SY



DN Solutions next generation of high-performance Horizontal Machining Centers are designed to deliver the highest levels of productivity in a compact footprint. New design features include a 15,000-rpm spindle, axes acceleration of up to 1G and a servo driven drum style magazine for fast tool changes. An eco-friendly grease lubrication system helps to maintain a clean environment by reducing the amount of waste oil generated. All of these features, and more, provide the best solution for your small to medium work piece manufacturing needs.

- One-Piece Meehanite cast iron bed with step guide structure and center through chip disposal design.
- Fast rapid traverse rate (X - 60 m/min \ 2,362 ipm, Y - 60 m/min \ 2,362 ipm, Z - 60 m/min \ 2,362 ipm)
- Spindle orientation, load meter, override and rigid tapping
- Double Arm ATC (60 tools, drum type)
- Tool Load Monitoring and Adaptive Feed rate Control



Scan or click to see a video on the NHP5000

The ROMI C Series CNC lathes are built with versatility in mind for machining different parts. This versatility comes from the high-power levels, quick movements, and machining accuracy. The robust structure provided the rigidity and stability needed to achieve the best performance over a wide variety of machining conditions.

- 25-Horsepower AC main motor
- 1,800-rpm (A2-8")
- Rigid tapping
- Tailstock with adjustable thread chasing cycle quill
- Manufacturer 24 months control warranty (parts and labor)
- Variable speed threading and thread repair



Scan or click to see a video on the Romi C620 CNC

- Tank capacity of 391 Gallons
- Max workpiece weight 6600lb.
- DMX-S (Digital matrix Sensor) allows for a lower wire speed reducing wire cost.
- Automated machine functions for easier user operation
- Best dollar /sq.ft EDM on the market

The MV-4800 provides a large work tank with 32”X x 23.6”Y x 20”Z travels, as it was designed for larger part production. The highly rigid machine structure incorporates a fixed table meehanite base casting, a stainless-steel work tank, seal plate and hardened stainless steel machine table to provide high accuracy machining.



Scan or click to see a video on the Mitsubishi MV 4800-ST

Industrial Robotic Experts

Source Atlantic offers automations solutions using Fanuc industrial robotics to enhance machine shops speed and precision.

Source Atlantic has the capabilities to implement Co-bots that work in the same space as machining personnel. Not only will we find the right machine, but we also will install, 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 Limited we have a team of Fanuc trained staff from CNC applications to robot programming to help transform your CNC to an automated cell.

Give your local SA representative a call once you're ready to look at automating



Scan or click to see video on FANUC's robot product

When you really want to push an insert to its productive limits — new GC4405 is a grade you can rely on. Designed with second generation Inveio® technology, GC4405 has incredible resistance to plastic deformation which typically occurs when continuously cutting steel at high feed rates. Suited for stable conditions, this grade will machine harder steels above 300 HB with dry machining possible in softer steels below 300 HB.

Application

- Low-alloyed and unalloyed steels
- Suitable for mass and batch production
- External and internal machining
- Finishing to roughing in applications with continuous cuts and light interruptions



Scan or click to see
a video on the Sandvik
4400 Series Inserts



Sharp End Mills Slash Through Steel

With a rake angle of 12°, the RF 100 Sharp carbide end mill cuts easily through all soft, tough, and high-alloyed materials.

Tool pressure and cutting forces are significantly reduced, enabling reliable machining of materials with a tensile strength of 43,000 - 130,000 psi and high ductility. These include free machining steels, stainless steels as well as tough special alloys and higher-strength aluminum alloys.

Whether it's a powerful CNC milling machine or a power-limited mill-turn: The RF 100 Sharp is designed to cover all the different operating conditions – and with outstanding results

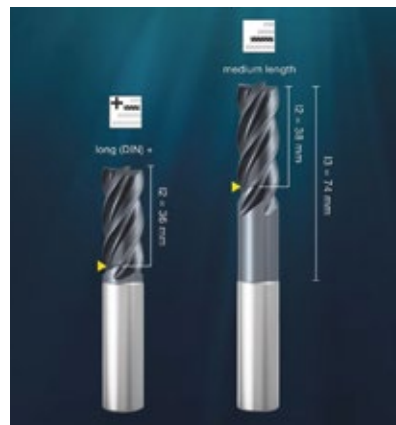


Scan or click to see a video on the Guhring RF100 Sharp



Features

- Tough carbide prevents tool breakage - even under very unstable conditions
- AlCrN coating provides optimum wear protection at all cutting speeds
- Optimized facet grinding dampens vibrations and increases tool life
- Corner protection chamfer provides more stability and edge strength



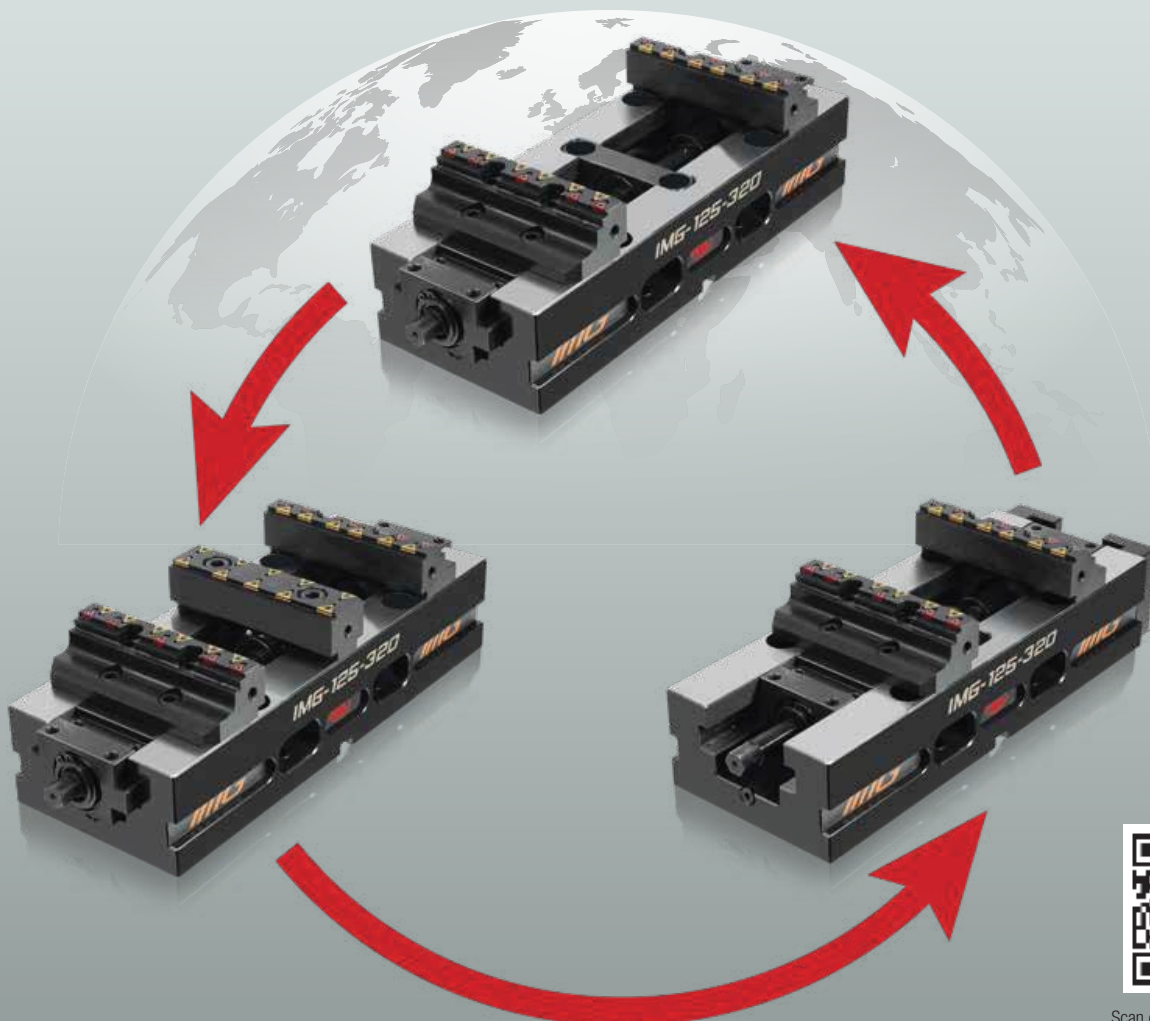
Steel	
Stainless steel	
Aluminum	
Special alloys	

IMG

IMAGINATION HAS NO LIMIT

- Totally protected
- Compact design for better accessibility and very large drainage slots
- Jaws with SinterGrip clamping inserts for minimum workpiece clamping depth without pre-machining
- Wide clamping range

IMG vices have a fully protected operating screw with a patented telescopic system. This innovation makes it possible to avoid having to remove the jaws to find the clamping position. In fact, normally, vices with protected screws use the slide-way as a protection. This type of solution forces continuous displacement of the jaws in the appropriate seat. **IMG**, on the contrary, while keeping the screw completely protected, allows the continuous movement of opening and closing of the vice.



Scan or click to see a video on the IMG – 5 Axis Vice

HYSOL® The Next Step In Liquid Coolants

- Delivers consistent, high-quality finish for cutting and grinding across metals and operations.
- A wide tolerance to water hardness helps avoid foaming and maintain production line cleanliness.

Hysol® MB series are the best-selling, highest volume coolants sold by Castrol® due to their all-around performance and overall value. They are designed for multi-metal compatibility, excellent tramp oil rejection and outstanding bio-stability. The Hysol® MB series of products also form exceptionally stable emulsions, are clean running and have a very mild odor.

PRODUCT NAME	PERFORMANCE	TYPICAL PH RANGE 5% DILUTION	APPEARANCE	REFRACTOMETER FACTOR	MATERIAL SUITABILITY						
					CAST IRON	LOW-MEDIUM ALLOYED STEEL	HIGH ALLOYED STAINLESS STEEL	ALUMINUM	TITANIUM ALLOY	YELLOW METALS	MAGNESIUM ALLOYS
HYSOL MB 10	Light Duty	9.2-9.8	Translucent	2.0	Y	Y	C	C	C	C	N
HYSOL MB 20	Medium Duty	9.2-9.8	Translucent	1.7	Y	Y	Y	Y	C	C	N
HYSOL MB 50	Heavy Duty	9.5-9.9	Milky	1.0	C	Y	Y	Y	Y	C	C

Y = Suitable – varies by application (refer to PDS) N = Not Suitable C = Consult Castrol Representative prior to use



Scan or click to see a video on Castrol® Hysol® MB

Meet the Team. We're here to help.

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