SOURCE ATLANTIC

SPRING 2023 Metalworking Brochure

SVM 4100 3 axis VMC

DN SOLUTIONS

- Various machine features are available to meet the customers' machining requirements, such as automatic ATC shutter and programmable coolant nozzles.
- Acceleration/Deceleration rates for the spindle and axis drives have been optimized to ensure high productivity.
- Tool change times (TtoT and CtoC) have been shortened to reduce the non-cutting time between machining operations.
- The thermal displacement correction function is applied as standard to optimize machining accuracy even during temperature variations in the surrounding environment.

The SVM 4100 3 axis VMC 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.

Scan to see a video on the DN Solutions SVM 4100 3 axis VMC

YOUR ONE STOP SHOP FOR CNC EQUIPMENT, ROBOTICS, AND CUTTING TOOLS

ENHANCE PRODUCTIVITY WITH HIGH PRECISION SOLUTIONS FROM SOURCE ATLANTIC

Puma SMX 2600ST 9 Axis Multi Task Machine

DN SOLUTIONS

The SMX series – DN Solution's next generation multi-tasking turning centers are high-productivity, high-precision machines that are easy to operate. By integrating the functionalities and capabilities of multiple machines into one system, the SMX series provides users with a multi-tasking machine tool solution that significantly reduces machining time and machining operations.

- Complex machining capabilities of the left spindle, right spindle, B-axis, milling spindle and lower.
- Maximized Y-axis stroke through machine's orthogonal design structure.
- Maximized productivity achieved through simultaneous machining.

Scan to see a video on the DN Solutions Puma SMX 2600ST

Puma 2600SY Y Axis Sub Spindle Lathe

DN SOLUTIONS

PUMA 2600SY turning centers have been redesigned to deliver even more power and precision. A comprehensive line up of machines with chuck sizes from 8" to 12", integrated Y-axes and sub-spindles makes Puma 2600SY turning centers unrivalled and unbeatable in their performance.

- All machines in the range feature powerful, high torque spindles which, in conjunction with their Y-axis capabilities, enables them to machine high-precision, complex parts in fewer set ups.
- The turning centres have a rigid and stable structure which helps eliminate vibrations and ensure high accuracy machining and improved process reliability.
- The EZ work, with its hot keys and a range of user-friendly functions enable fast, trouble-free job set ups and efficient and reliable monitoring and management.

Scan to see a video on the Puma 2600SY

FANUC

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.

Ron Myall
Machining Manager

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 to see video on FANUC's robot product

KASTOmicut AE 4.6

KASTO®

Fully hydraulic automatic band sawing machine of solid construction, designed for the consistent solution of any cutting-to-length or mitre cutting tasks in the case of beams, tubes and profiles. Coolant device for sawing solid materials in straight cuts with emulsion cooling in workshops. In addition to straight cuts, mitres can be cut very flexibly and quickly by adjusting the saw head very easily to the right by 60.

- KASTO control for sawing machines *AdvancedControl.*
- Infinitely variable cutting speed 65 – 360 sfpm (20 – 110 m/min) via frequency regulated drive.
- Infinitely variable and fully hydraulic saw feed control.
- Material feed via precise servo-controlled ball bearing spindle. Multiple feed up to 393.66” (9999 mm), short cut lengths are positioned by an incremental feed.

Castrol® Hysol® MB

Castrol

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 to see a video on Castrol® Hysol® MB

DVF 4000 5 Axis VMC

- 5 Simultaneously controlled axes (X,Y,Z,B,C) with high precision, absolute rotary encoders on B and C axes and absolute glass scales on XYZ axes.
- Servo Driven, Double Arm ATC (40 tools) with fully enclosed ATC and tool arm.
- High rigidity, traveling column design with large linear roller guides (X - 45 mm \ 1.772", Y - 45 mm \ 1.772", Z - 35 mm \ 1.377").
- Z-axis thermal compensation by multiple temperature sensors and proprietary compensation algorithms for increased precision.

The DVF 4000 is designed to machine complex work pieces with high precision and speed. The 15,000-rpm built-in spindle gives superior performance in virtually any machining application. The travelling column machine structure provides uniform load to all linear machine axes allowing for a highly rigid and stable platform for your most demanding machining processes

Scan to see a video on the DN Solutions DVF 4000

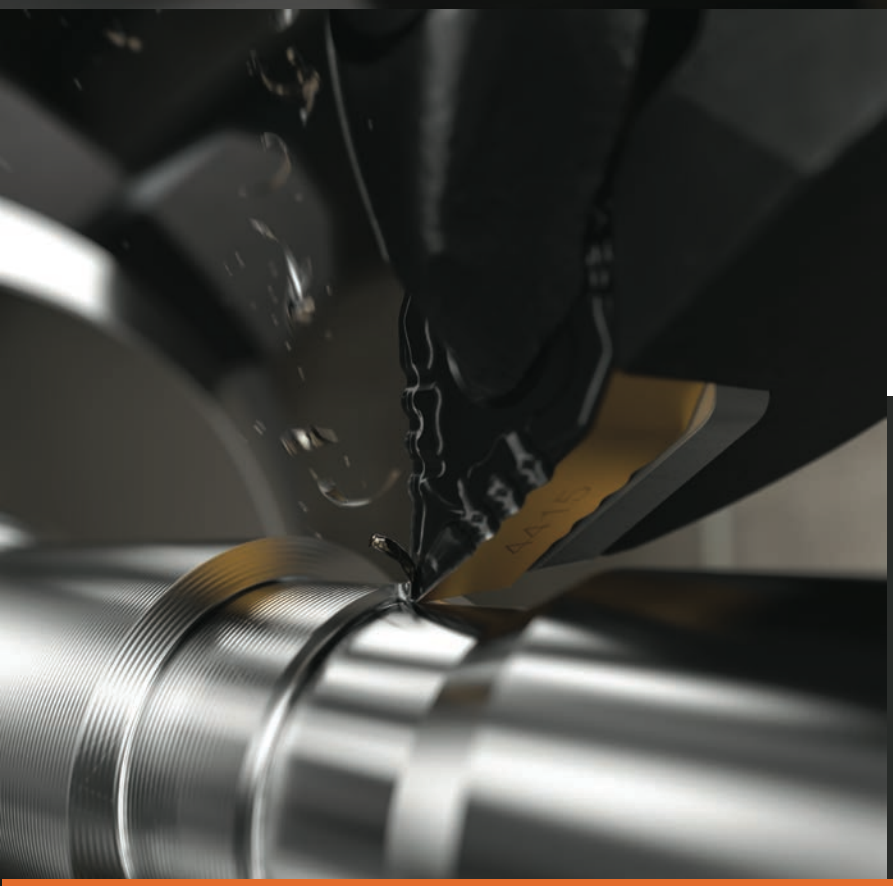
DNM 6700XL Extra Long 3 Axis VMC

Building on the legacy of the proven and successful DNM and DNM II series, the new version DNM series boasts even greater reliability and improved performance. In addition, the new series includes grease lubrication to the roller guideways which is more environmentally friendly. The design concepts underpinning the DNM 4500/5700/6700 series are high speed, high rigidity and suitability for all applications

- DNM series machines have larger tables with increased Y-axis travels and increased maximum table loads.
- Directly coupled spindles reduce vibration and noise, thereby improving the machines' performance and making them more environmentally friendly compared to belt driven machines.
- High torque and high speed spindles are available for the machining of different materials.
- Higher productivity is achieved by reducing tool change times and by improving acceleration and deceleration rates.

Scan to see a video on the DNM 6700XL

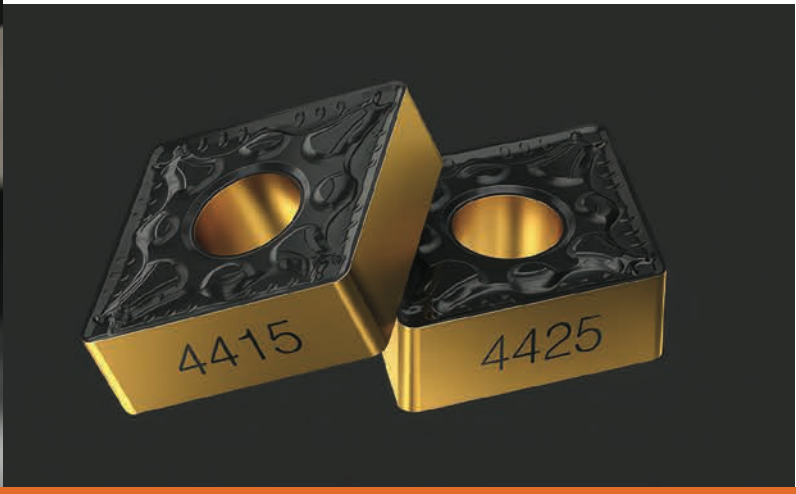
Sandvik Steel Turning Inserts



The new generation steel turning insert grades GC4425 and GC4415 deliver improved performance in every way. Coated with second generation Inveio® technology, they have a broad range of applications and are recommended for continuous and interrupted cuts.

First choice grade GC4425 features improved wear resistance, heat resistance and toughness, significantly expanding the application range. Grade GC4415 complements GC4425 when more heat resistance is needed. It allows for high cutting speed and long times in cut when machining in stable conditions.

Scan to see a video on the new generation steel turning insert grades



RF 100 Micro Diver Endmill

GUHRING

Sharp End Mills Slash Through Steel

Plunging and milling with only one tool. Outstanding performance across a wide range of materials. Extreme cutting values and very high cutting depths, which were previously not possible for micro-precision tools.

Scan to see a video on the Guhring Micro Diver Sharp

- Innovative flute form very high tool stability low vibration cutting.
- New transition geometry improves overall stability.
- Gühro Jet coolant ducts guided cooling & lubrication directly in the cutting area for effective chip removal.
- New ultra-fine carbide optimum balance between hardness and toughness for micromachining applications.

Steel P

Stainless steel M

Aluminum N

Special alloys S

Meet the Team

Our team has the capabilities to supply, service, and solve all your metalworking needs.

Alberta

Scott Jensen
Cutting Tools Manager

Steve Greenslade
Machine Tool Sales Northern Alberta

Doug Criss
Cutting Tools Technical Specialist Northern Alberta

Keith Rude
Machine Tool Sales Southern Alberta

Manitoba & Saskatchewan

Ron Myall
Machining Manager

Mark Perry
Machine Tool Sales Manitoba and Saskatchewan

Sandeep Chopade
Cutting Tools Specialist Alberta

Yes! I am ready to connect with a metalworking specialist!
www.sourceatlantic.ca/machine-automation-solutions

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