

FALL 2023 Metalworking Brochure

BVM 5700 Vertical Machining Center



- Built-in spindle 15,000 rpm is standard.
- High spindle acceleration and deceleration
- 1.3 s Tool To Tool change time
- 5.5 s CHIP to CHIP time
- Ball nut cooling provide excellent thermal stability



Scan or click to
see a video on
the BVM 5700



The BVM 5700 vertical machining center is optimized for stable machining and accuracy by its bridge frame structure. The 15,000 rpm built-in spindle provides high speed machining capability. The BVM 5700 is the best choice for customers who want the highest levels of precision and productivity.

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

ENHANCE PRODUCTIVITY WITH HIGH PRECISION SOLUTIONS FROM SOURCE ATLANTIC



- Heavy duty, geared head spindle design with 25/30 hp motor, 6,000 rpm
- Massive Meehanite cast iron bed
- X axis travel 98.425",
Y axis travel 37.4",
Z axis travel 33.46",
Table loading area
98.425" x 37.4"
- 630 inch per minute rapid
- 7,700 lb table load

The Mynx 9500 Vertical Machining Center is designed for heavy duty cutting, high accuracy and superior surface finishes. Featuring an arch shaped column structure and large, box type guideways, the Mynx 9500 provides unrivaled rigidity and unsurpassed performance for heavy duty machining. With its 50 taper spindle, driven by a two-step gearbox, the Mynx 9500 delivers exceptionally high torque and covers the broadest possible spectrum of tough machining applications.

Lynx 2100LY Compact Turning Center



- The Y-axis 105mm (± 52.5 mm) and sub-spindle enable complex parts, with a range of different features and details.
- Powerful spindle motor is capable of 0.001 degree high-accuracy C-axis control, large bar capacity up to 3.2 inch
- The high-torque servo motor controls
 - a) rotational acceleration and deceleration of the turret
 - b) clamping/unclamping operations
- Standard programmable parts catcher

The Lynx 2100LY is a new Y-axis model from the Lynx 2100 series and enables complex parts to be machined in a single setup. High precision off-center machining is easy to achieve and productivity gains, due to a significant reduction in cutting and non-cutting times when machining complex parts, can be realized.



Scan or click to see a video on the
DN Solutions Lynx 2100LY

PUMA TT2100SYY Turning Center



- The left and right spindles can process workpieces independently to achieve excellent productivity
- Reduce non-cutting time by 10%
- Higher indexing speed
- Improved accuracy
- Standard Parts unloader
- Upper & lower turrets have Y axis travel



The PUMA TT2100SYY is 2.55" bar capacity high productivity horizontal turning centers. They are equipped with twin opposed spindles and upper/lower turrets with Y-axis.



Scan or click
to see a video on
the PUMA TT2100SYY

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

Machine and
Automation
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 or click
to see video on
FANUC's robot product



WAY OIL BASICS

What is Way Oil?

Way oil is a type of hydraulic oil formulated with tackifiers or other adhesive additives in order to help maintain lubrication for a machine's sideways.

There are several key attributes that a quality way lube should have. They are:

- Proper viscosity
- Adhesion properties
- High lubricity
- Coolant compatibility

These properties are far more important than you may realize. If you can find a product with the right mix of the above, then you can ensure proper tolerances are met on parts. Plus you can dramatically lengthen coolant life.

Here are some key benefits in having low oil entrainment in your coolant:

IMPROVED PART QUALITY	REDUCED TOOLING COSTS	LOWER COOLANT COSTS
Increased cutting fluid performance	Reduce premature dulling and breaking of tools	Reduce biocide and chemical usage
Lower temperatures at the point of cut	Longer cycles on tools before any re-sharpening is required	Longer sump life
Reduce "burrs" on parts		Fewer change-outs and reduced treatment
Reduce/eliminate "smut" build-up on tools		

Way Oil Summary

A well formulated way oil should have enough friction modifiers to stop stick-slip, be adhesive enough to keep from being washed off the slide ways and be compatible with the coolant you are using.

Open insert pocket

The open pocket design helps to improve chip evacuation and reduces re-cutting of chips. The design is optimized for chips generated by a high feed tool and minimizes smearing of chips, especially in ISO S applications.



Curved edge insert design

The single-sided two-edged positive insert has a curved and strong edge with a reinforced corner radius, ensuring secure and reliable machining against shoulders and corners in pocketing.

Scan or click
to see a video
on the Sandvik
MH-20 Inserts



Prominent marking to
differentiate the geometries

Optimized ramping edge for
higher ramping capability and
good chip evacuation.

Radius connecting main cutting edge
and ramping edge. Acts as a wiper
to give a better surface finish.

Stable axial support, especially
useful when plunging.

Curved main cutting edge for
highest edge security.

Prominent marking to
differentiate the geometries

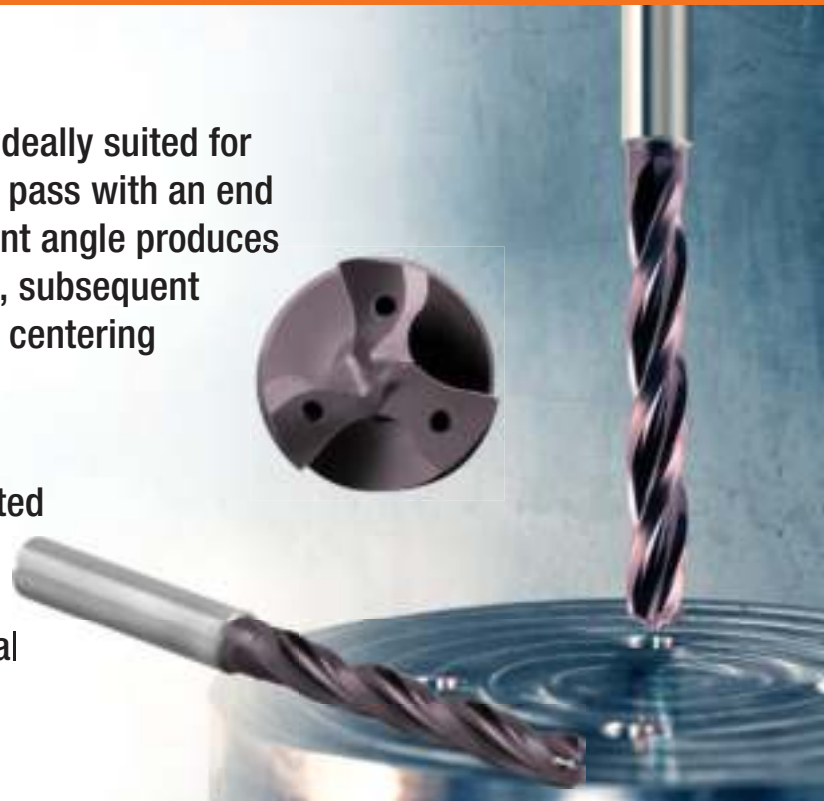
Optimized ramping edge for
higher ramping capability and
good chip evacuation.

RT 100 FB

The RT 100 FB solid carbide flat bottom drill is ideally suited for drilling into oblique or curved surfaces. A finish pass with an end mill is unnecessary because the drill's 180° point angle produces holes with a true flat bottom surface. Therefore, subsequent drilling operations allow for extremely accurate centering with low vibration.

Advantages

- reduced process costs as spot-facing is omitted
- drilling of oblique or curved surfaces up to 45° without deflection
- exit of the hole is virtually burr-free, thus ideal for cross-drilled holes



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