



METALWORKING

DOOSAN

DNM 5700 8K, 12K, 15K



This next generation of DNM Vertical Machining Centers boasts even greater reliability and performance. The design concepts of the series are high speed, high rigidity and suitability for universal applications.

Standard Features:

- Largest machining area in its class
- Direct coupled spindles
- Linear motion roller guideways
- User friendly operator panel
- Fully equipped for optimum precision in any level of manufacturing



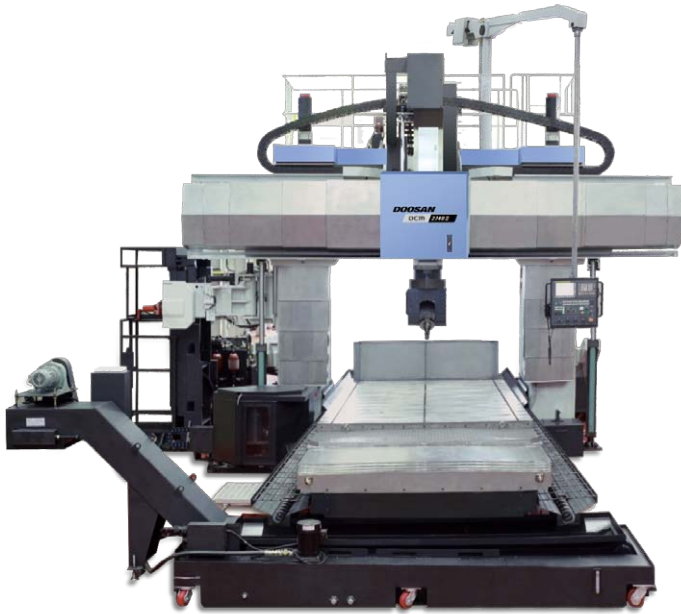
Specs	8K	12K	15K
Spindle Speed	8,000 RPM	12,000 RPM	15,000 RPM
Motor	15/20HP	15/25 HP	15/25 HP
X/Y/Z Travel (inches)	1050 mm/570 mm/510mm 1050mm (41.33")/570mm (22.44")/510mm (20.08") 1050mm (41.33")/570mm (22.44")/510mm (20.08")		
Spindle Nose to Table Top (inches)	150 mm to 660 mm (5.9" to 26") 150mm to 660 mm (5.9" to 26")		

Visit our Calgary branch to experience the DNM 5700 - on display!



**DOOSAN MACHINE TOOLS AMERICA
CNC MACHINE TOOLS**

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The DCM II series is a multi-purpose double column machining center for applications such as heavy duty machining of large parts and high precision dies and molds. Designed with the highest specifications in its class, the DCM II series provides a broad range of machining capabilities and optional equipment, together with many convenient functions for the operator.

High-Precision, High-Speed Mold Machining Performance

High-speed rapid traverse and cutting feedrate, high-load table capacity, high-precision/high-speed head attachments, X/Y/Z/W axes linear scale, or X/Y/Z axes ball screw shaft cooling as options enable the machining of high-accuracy and high-speed molds/general parts.

Convenient Functions

Support system for 5 face machining of large and heavy workpieces, easy pattern cycles, work load counter control, auto feed control, process monitoring

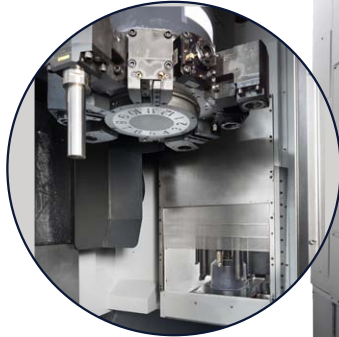
Broad Range of Machining Capabilities

From simultaneous 5-axis processing of dies/molds to heavy duty cutting

Description	Effective width between columns mm (inch)	Table size mm (inch)	X/Y/Z/W axes travel mm (inch)	Spindle Speed (r/min)
DCM 2740F I	2700 (106.3)	2200 x 4100 (86.6 x 161.4)	4250 / 3200 / 700 / 1100 (167.3 / 126.0 / 27.6 / 43.3)	(Standard / high-speed built-in spindle) Standard: (6000)* High speed: (8000)* (Heavy-duty I: (6000)* (Heavy-duty II: (6000)*)
DCM 2750F I		2200 x 5100 (86.6 x 200.8)	5250 / 3200 / 700 / 1100 (206.7 / 126.0 / 27.6 / 43.3)	
DCM 2760F I		2200 x 6100 (86.6 x 240.2)	6250 / 3200 / 700 / 1100 (246.1 / 126.0 / 27.6 / 43.3)	
DCM 2780F I		2200 x 8100 (86.6 x 318.9)	8250 / 3700 / 700 / 1100 (324.8 / 126.0 / 27.6 / 43.3)	
DCM 3250F I	3200 (126.0)	2700 x 5100 (86.6 x 200.8)	5250 / 3700 / 700 / 1100 (206.7 / 126.0 / 27.6 / 43.3)	
DCM 3260F I		2700 x 6100 (86.6 x 240.2)	6250 / 3700 / 700 / 1100 (246.1 / 126.0 / 27.6 / 43.3)	
DCM 3280F I		2700 x 8100 (86.6 x 318.9)	8250 / 3700 / 700 / 1100 (324.8 / 126.0 / 27.6 / 43.3)	
DCM 3780F I	3700 (145.7)	3200 x 8000 (86.6 x 318.9)	8250 / 4200 / 1000 / 1400 (324.8 / 165.4 / 39.4 / 55.1)	
DCM 37100F I		3200 x 10100 (86.6 x 397.6)	10250 / 4200 / 1000 / 1400 (403.5 / 165.4 / 39.4 / 55.1)	
DCM 4280F I	4200 (165.4")	3500 x 8100 (86.6 x 318.9)	8250 / 5000 / 1000 / 1400 (324.8 / 196.9 / 39.4 / 55.1)	

Puma V8300

DOOSAN



Puma V8300 vertical turning centers are designed to handle heavy and interrupted cutting while producing and maintaining long-term high accuracy and superior surface finishes. The vertical design facilitates loading of heavy work pieces, helping to ensure higher chucking accuracy and allow for higher spindles speeds.

Specs	V8300
Maximum Turning Diameter	830 mm (32.68")
Maximum Turning Length	750 mm (29.5")
Spindle Speed	2000 RPM
Spindle Motor	37 kW (50 hp)
Tool Selection	Bi-Directional
Number of Tools	12

Puma SMX3100ST



The Puma SMX3100ST multi-task milling/turning centers are designed for heavy and interrupted cutting, long-term high accuracy, and superior surface finishes. The high-speed tool change with rapid traverse rate minimizes non-cutting time, while the c-axis contouring, y-axis off-center, and b-axis any-angle milling/drilling allow for single set-up completion of complex work pieces. Multi-tasking capabilities increase productivity and provide for just-in-time production requirements.

Specs	SMX3100ST
Swing over Bed	660 mm (25.98")
Max. Bar Capacity	102 mm (4.0")
Max. Turning Diameter	660 mm (25.98")
Max. Turning Length	1,540 mm (60.63")
Left Spindle Speed	3,000 RPM
Left Spindle Bore Diameter	115 mm (4.52")
Left AC Spindle Motor	30 kW (40 hp)
Right Spindle Speed	40 – 4,000 RPM
Right Spindle Bore Diameter	91 mm (3.58")
Right AC Spindle Motor	26 kW (35 hp)
Milling Spindle Speed	12,000 RPM
Milling Motor Power	26 kW (35 HP)
Max. Number of Tools	80 (40 standard/120 optional)

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R650 and R450 Speedio with Pallet Changer



- Increased productivity with Brother's original QT table pallet changer! The QT (Quick-Turn) table is Brother's high-speed 2-face pallet changer. High-speed pallet change is enabled by avoiding lift-up operation while achieving high-reliability through a sealed structure.
- Wasted time=zero! The machine is equipped with a simultaneous operation function where the XY and additional axes are positioned and tools are changed simultaneously when the QT table turns.
- Simultaneous operation, high acceleration spindle and high-speed tool change all contribute to enhanced speed and optimal control – all on ONE machine!
- Energy saving functions such as power regeneration, high-efficiency components, and LED lights provide high performance while minimizing environmental impact.

brother Compact Machining Center **SPEEDIO**

Specs	R450X1	R650X1
Max. Spindle Speed	10,000min-1 10,000min-1 high-torque (optional) 16,000min-1 (optional)	10,000min-1 10,000min-1 high-torque (optional) 16,000min-1 (optional)
Feedrate	1-30,000 [0.04 - 1,181] (X,Y,Z)*9	1-30,000 [0.04-1,181] (X,Y,Z)*8
X/Y/Z Travels mm (inches)	450 (17.7) / 320 (12.6) / 305 (12)	650 (25.6) / 400 (15.7) / 305 (12)
Tool Storage Capacity	14 / 22 (optional)	14 / 22 (optional)
Rapid Traverse Rate (XYZ-area)	50m/min x 50m/min x 50m/min	50m/min x 50m/min x 50m/min



Equator 500



Maintain accuracy on the shop floor with the Equator 500!

- Instant automated feedback
- Updated tool offsets after tool/insert change
- Control of tool wear
- Process monitoring
- Validates process outcomes
- Reduces time delays compared to traditional or off-line measurement



Hysol MB 50



A high-performing soluble metalworking fluid, designed for multiple applications including: metal grinding, turning or general machining, drilling, reaming, tapping and broaching.

- Achieve high quality machining on multiple metals across multiple manufacturing processes (effective on most aluminum alloys and ferrous metals)
- Address productivity problems caused by coolants with a short life
- Maintain production line cleanliness

Specs	MB 50
Mineral Oil	40% +
Concentration Range	5 – 15%
Metal Type	Aluminum, Cast Iron, High Alloy Steel/Stainless Steel, Low/Medium Alloy Steel, Other Alloys, Yellow Metal
Multi Metals Suitable	Yes
Ester/EP Additives	Yes
Formulated Without Chlorinated Paraffin	Yes
Formulated Without Boron	No
Product Type	Metalworking Fluids
Applicable Sectors	Aerospace, Automotive Manufacture, Machinery, Metal Goods

GC4330 and GC4340



Grades GC4330 and GC4340 are CVD grades optimized for steel milling, offering substantially increased tool life and improved process security. Use GC4330 for roughing to semi-finish facemilling; use GC4340 for rough shoulder milling and groove milling.

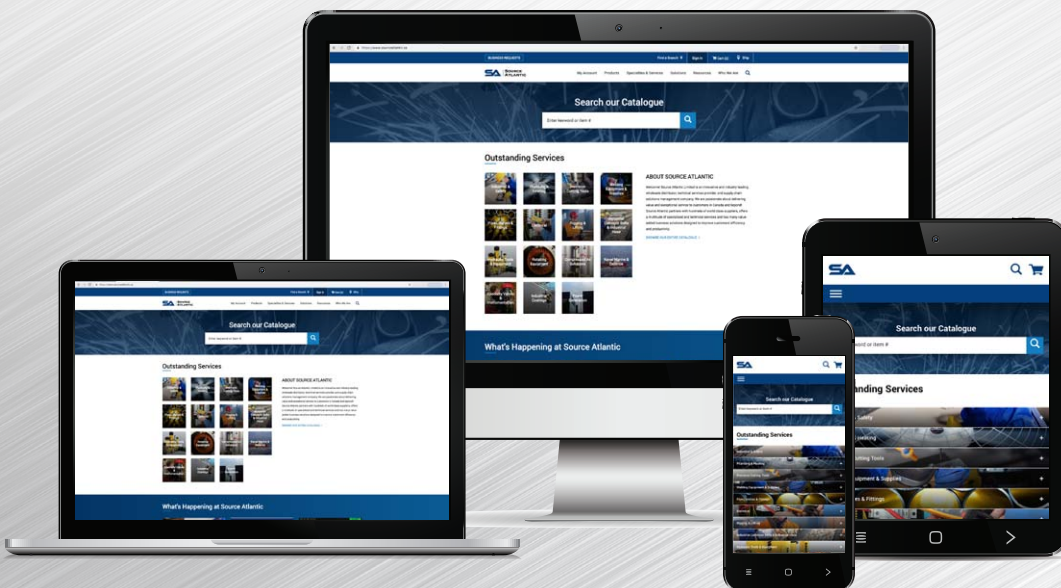
Technical Features

- Inveio coating for high wear resistance and long tool life
- New substrate in grade GC4330 with well-controlled grain size distribution, which offers more reliable and predictable tool behavior
- More consistent tool life with narrower edge rounding tolerance
- Improved post-treatment technology strengthens the insert by modifying its mechanical properties

Benefits

- Increased tool life provides reduced cost per component
- Improved process security ensures a predictable performance and less downtime
- High component quality

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CoroTurn – Prime Turning



The Method

Turn in all directions in a much more efficient and productive way compared to conventional turning

The Tools

- **A-Type** for light roughing, finishing, and profiling
- **B-Type** for rough machining

The Software

This software generates optimized CNC code for smooth implementation of the PrimeTurning method and CoroTurn Prime tools in your turning applications.



A-Type



B-Type



Benefits

50% productivity increase

Faster metal removal rates means more parts per run by doubling the speed and feed

Flexibility to do turning in all directions

Extremely fast return on investment, higher productivity and less capital expenses bring down the overall cost per component

Longer lasting inserts

Higher machine utilization and less time with setup and tool changes



Branch Locations

Calgary

44-8009 57 St SE
403.203.0289

Edmonton

5431 99th Street NW
780.435.3737

Regina

841 Roulston Street
306.721.6442

Saskatoon

B-3069 Faithful Ave
306.653.7788

Winnipeg

169 Omands Creek Blvd
204.632.4092

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*Machining Specialist
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Chris Woods
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Manitoba & Saskatchewan



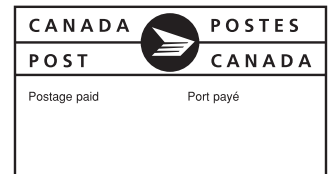
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