

# NOMURA DS

Engineered for Excellence: Precision, Performance, Rigidity.



At Nomura DS, we've dedicated ourselves for decades to engineering excellence in both milling and turning machines. Our unwavering commitment to quality ensures you will have high precision, durability and innovation for your production.

[www.Nomura-DS.com](http://www.Nomura-DS.com)

V2024.11.21



# Increased Rigidity

Nomura DS doesn't sacrifice time for quality. The rigid structural design of our machines - coupled with a BBT30 taper spindle with double face contact - increases rigidity while reducing harmonics in the cutting process, improving part quality and guaranteeing longer tool life. The highly productive automatic tool changer and high acceleration rates versus high rapid traverse speeds make our product line-up a solid fit for ultra-fast machining.



Save Floor Space



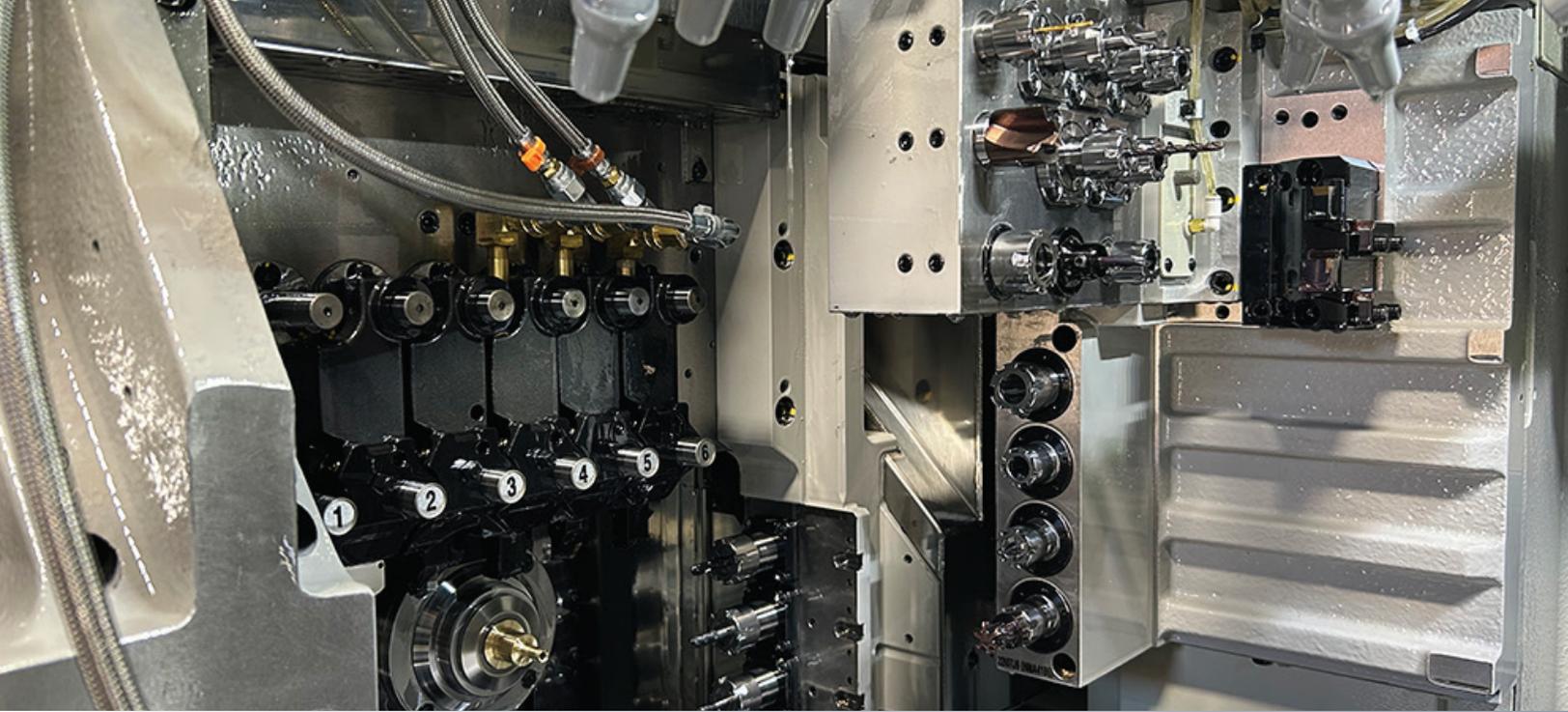
Decrease Cycle Times



Increase Machining Efficiency



Reduce Vibrations and Deformation



# Precision Machining

Nomura DS turning machines are ideal for machining complex parts, working with difficult-to-machine materials, achieving fine surface finishes and reducing tool costs.



## Incredible Service & Support

With increased rigidity comes reduced vibration and higher accuracy over time, which extends tool life resulting in a clean surface finish every time.



Expert Installation



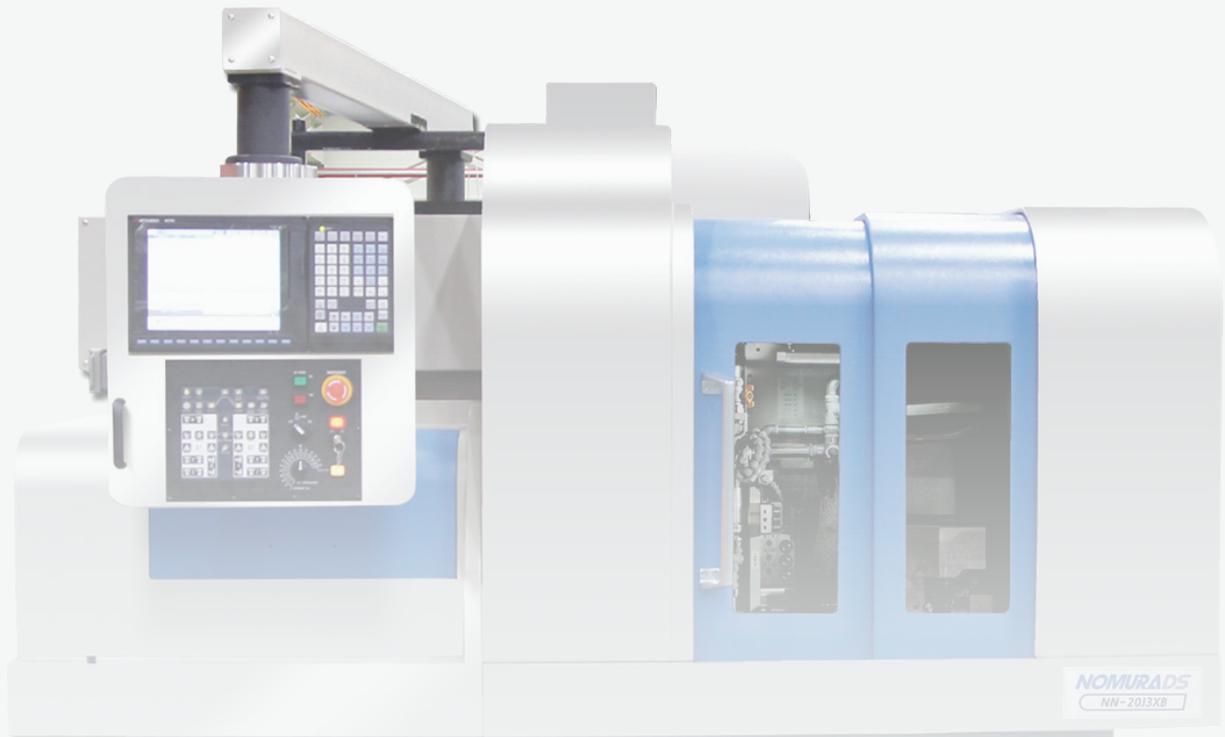
Preventative Maintenance



Advanced Technical Training



Replacement Parts



# **TURNING** SERIES

**Machines Come Standard with  
Micro Vibrational Technology (MVT).**

## CNC Swiss-Type Automatic Lathe

# NN-10EX2

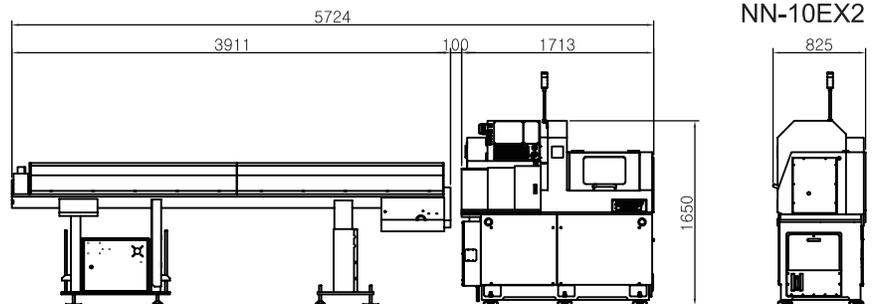
The 10EX2 is specialized for high precision and complicated machining under 10mm. Improved productivity with shortened cycle time. The 10EX2 also has a built-in main & sub.



## NN-10EX2 Specifications

Total Tools	22
Spindle Speed (RPM)	15,000rpm
Main Spindle Axes	4
Back Spindle Axes	3
Max. Stock Diameter (mm   inches)	Ø 10mm   Ø 0.40"
Max Axis Feed Rate	30m/min
Spindle Power	3.7/1.5KW
Control	Mitsubishi M80 Type A

## Floor Layout



## CNC Swiss-Type Automatic Lathe

# NN-20J3

The 20J3 is a highly-flexible machine with a sub spindle that comes standard with 6 OD tools, 4 static front/back drilling stations and 5 live cross drill/mill spindles for the main spindle.

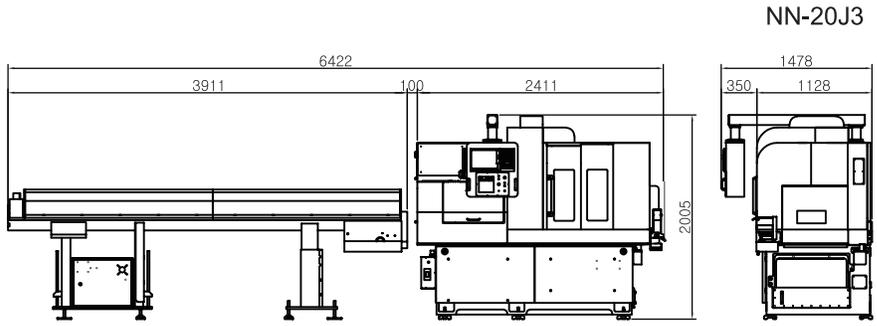
The sub-spindle has 3 static back drilling tools, 2 OD tools, 3 live cross drill/mill tools and 3 live off-center drill/mill tools. The C-axis can be programmed to .0001 degree increments.



### NN-20J3 Specifications

Total Tools	30
Spindle Speed (RPM)	10,000rpm
Main Spindle Axes	4
Back Spindle Axes	4
Max. Stock Diameter (mm   inches)	Ø 20mm   Ø 0.79"
Max Axis Feed Rate	30 m/min
Spindle Power	3.7/1.5kW
Control	Mitsubishi M80 Type A

### Floor Layout



## CNC Swiss-Type Automatic Lathe



# NN-20J3XB

The 20J3XB comes with all the flexibility of the 20J3 plus a B1 axis on the type A and type C. Both the main and sub spindles sit atop a full base casting, have onboard chillers, and run to a maximum 10,000 RPM, while the live tooling can run at 6,000 RPM. The C-axis can be programmed to .0001 degree increments.

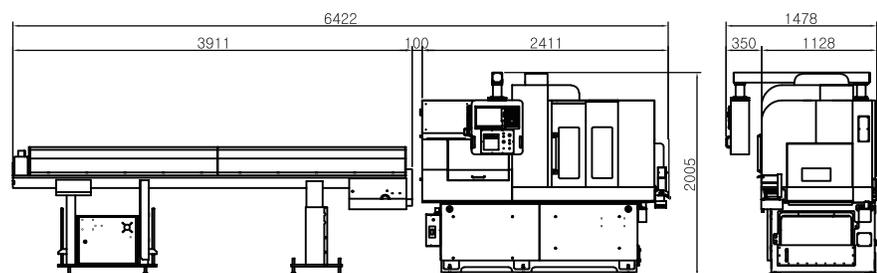
Standard features include: MVT, polar, cylindrical, and helical interpolation, variable lead threading, eccentric turning, parts conveyor, and more.



### NN-20J3XB Specifications

Total Tools	Type A - 29   Type C - 27
Spindle Speed (RPM)	10,000rpm
Main Spindle Axes	5
Back Spindle Axes	Type A - 4   Type C - 5
Max. Stock Diameter (mm   inches)	Ø 20mm   Ø 0.79"
Max Axis Feed Rate	30 m/min
Spindle Power	3.7/1.5kW
Control	Mitsubishi M80 Type A

### Floor Layout



## CNC Swiss-Type Automatic Lathe

# NN-25UB8K

The 25UB8K is a high-performance machine at an economical price and capability than others in its product class.

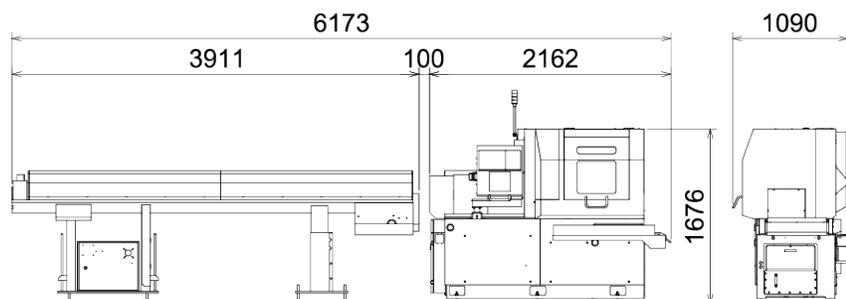
Without reduction of its specs or content, it has been upgraded with increased power and torque of the cross-drilling motors and even comes standard with Micro Vibration Technology (MVT).



### NN-25UB8K Specifications

Total Tools	21
Spindle Speed (RPM)	10,000rpm
Main Spindle Axes	4
Back Spindle Axes	3
Max. Stock Diameter (mm   inches)	Ø 25mm   Ø 0.98"
Max Axis Feed Rate	30 m/min
Spindle Power	3.7/1.5kW
Control	Mitsubishi M80 Type A

### Floor Layout



## CNC Swiss-Type Automatic Lathe



# NN-26KMY

Modular tooling on the 26KMY provides many live tool options for a variety of machining processes like thread whirling, off-center face milling, angled drilling, hobbing, and polygon cutting. 3 long drill tool stations are included and work extremely well with MVT.

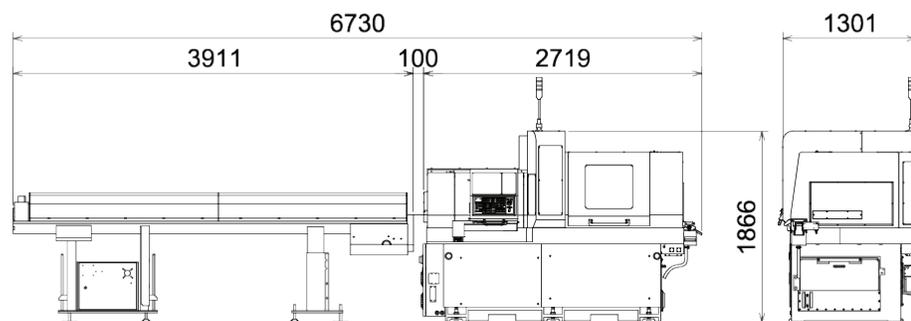
The sub-spindle is equipped with 4 static and 4 live tool stations on a Y-axis. Additionally, the 26KMY can switch to non-guide bush mode if needed for your application.



### NN-26KMY Specifications

Total Tools	31
Spindle Speed (RPM)	10,000rpm
Main Spindle Axes	4
Back Spindle Axes	4
Max. Stock Diameter (mm   inches)	Ø 26mm   Ø 1.02"
Max Axis Feed Rate	32m/min
Spindle Power	5.5/3.7kW
Control	Mitsubishi M80 Type A

### Floor Layout



## CNC Swiss-Type Automatic Lathe



# NN-32UB8

The 32UB8 has a horizontal tool post, dovetail structure, and an efficient tool layout.

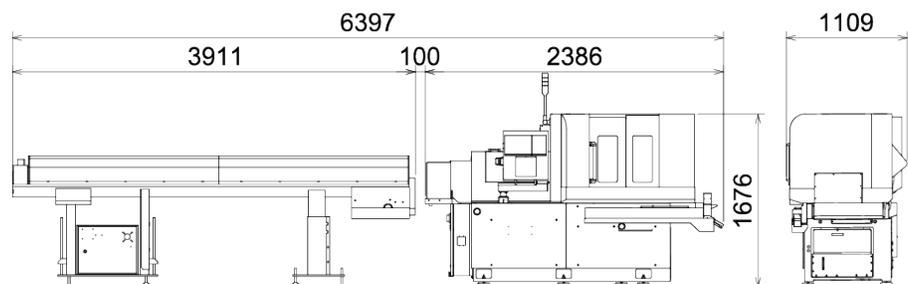
The 32UB8 offers shortened cycle time, high-efficiency at a reasonable price. The balanced tool layout can minimize cycle time.



### NN-32UB8 Specifications

Total Tools	21
Spindle Speed (RPM)	8,000rpm
Main Spindle Axes	4
Back Spindle Axes	3
Max. Stock Diameter (mm   inches)	Ø 32mm   Ø 1.26"
Max Axis Feed Rate	30 m/min
Spindle Power	5.5/3.7kW
Control	Mitsubishi M80 Type A

### Floor Layout



## CNC Swiss-Type Automatic Lathe

# NN-32DB

The 32DB is specialized for difficult-to-cut parts. With increased tooling, it has the best tool layout among equivalent models.

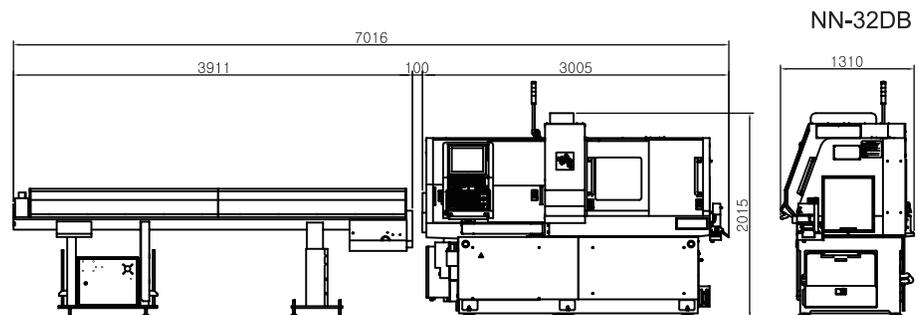
Additionally, the 32DB machine can both pinch turn and pinch mill, further reducing your cut time.



### NN-32DB Specifications

Total Tools	36
Spindle Speed (RPM)	8,000rpm
Main Spindle Axes	6
Back Spindle Axes	4
Max. Stock Diameter (mm   inches)	Ø 32mm   (Ø 1.26")
Max Axis Feed Rate	28m/min
Spindle Power	7.5/3.7kW
Control	Mitsubishi M830

### Floor Layout



## CNC Swiss-Type Automatic Lathe

# NN-38DB

The 38DB is specialized for difficult-to-cut parts. With increased tooling, it has the best tool layout among equivalent models.

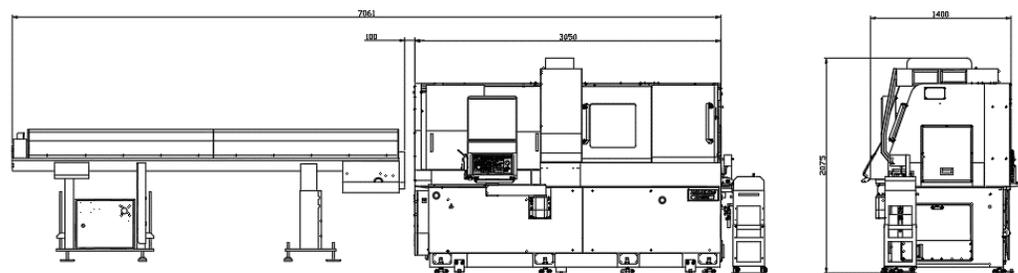
Additionally, the 38DB machine can both pinch turn and pinch mill, further reducing your cut time. With the optional non-guide bushing mode, the max machining diameter can be increased to 42mm diameter.



### NN-38DB Specifications

Total Tools	34 (OP 36)
Spindle Speed (RPM)	8,000rpm
Main Spindle Axes	7
Back Spindle Axes	4
Max. Stock Diameter (mm   inches)	Ø 38mm (OP:Ø 42mm)   Ø 1.50" (OP:Ø 1.65")
Max Axis Feed Rate	25m/min
Spindle Power	7.5/5.5kW
Control	Mitsubishi M830VS

### Floor Layout



## CNC Swiss-Type Automatic Lathe

# NN-38J

The 38J has the best tool layout among equivalent models. A highly capable tool layout, both front and back spindles.

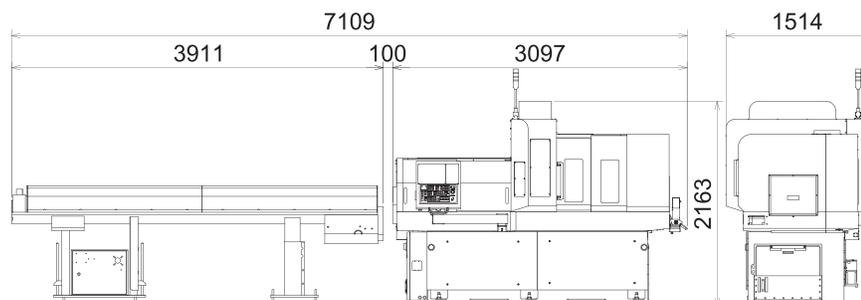
With the optional non-guide bushing mode, the max machining diameter can be increased to 42mm diameter.



### NN-38J Specifications

Total Tools	32
Spindle Speed (RPM)	8,000rpm
Main Spindle Axes	4
Back Spindle Axes	4
Max. Stock Diameter (mm   inches)	Ø 38mm (OP:Ø 42mm)   Ø 1.50" (OP:Ø 1.65")
Max Axis Feed Rate	30 m/min
Spindle Power	7.5/5.5kW
Control	Mitsubishi M80 Type A

### Floor Layout



## CNC Swiss-Type Automatic Lathe

# NN-38JXB

The 38JXB is a highly flexible machine that comes standard with 5 OD tools, 5 static front/back drilling stations and 5 live cross drill/mill spindles on a B-axis for the main spindle.

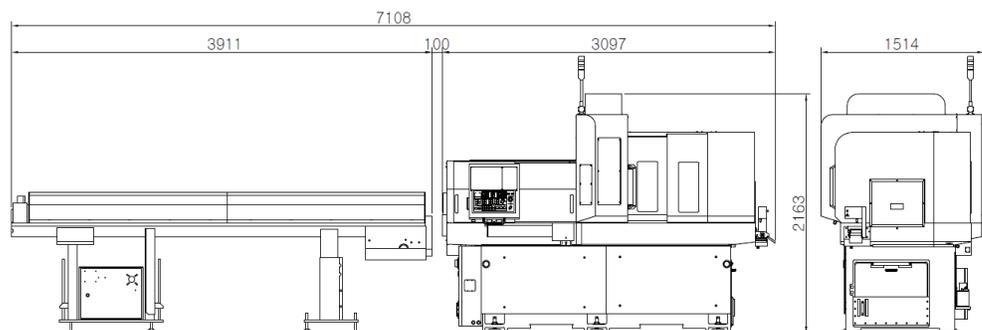
The sub-spindle has 5 static back drilling tools, 2 OD tools, 4 live cross drill/mill tools and 5 live face drill/mill tools. The C-axis can be programmed to .0001 degree increments.



## NN-38JXB Specifications

Total Tools	31
Spindle Speed (RPM)	8,000rpm
Main Spindle Axes	5
Back Spindle Axes	4
Max. Stock Diameter (mm   inches)	Ø 38mm   Ø 1.50"
Max Axis Feed Rate	30 m/min
Spindle Power	7.5/5.5kW
Control	Mitsubishi M80 Type A

## Floor Layout



## CNC Swiss-Type Automatic Lathe



# NN-38KM

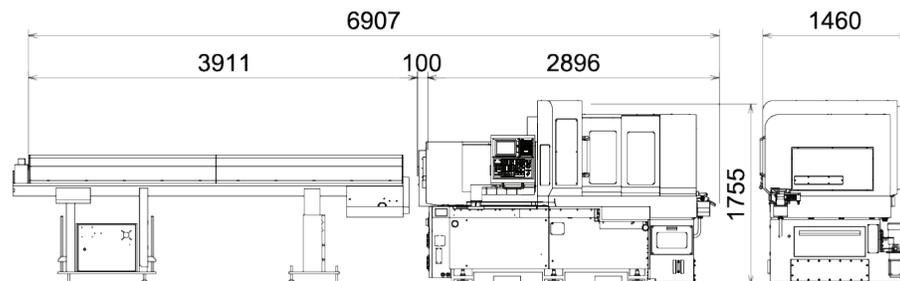
The 38KM has the latest NC with a Mitsubishi M80 control. It has an improved tool layout for easier chip removal and minimizes thermal deformation and vibration with an integrated casting bed and dovetail structure.



## NN-38KM Specifications

Total Tools	38
Spindle Speed (RPM)	8,000rpm
Main Spindle Axes	4
Back Spindle Axes	3 or 4
Max. Stock Diameter (mm   inches)	Ø 38mm   Ø 1.50"
Max Axis Feed Rate	32m/min
Spindle Power	7.5/5.5KW
Control	Mitsubishi M80 Type A

## Floor Layout



## CNC Swiss-Type Automatic Lathe

# NN-38UB8K2

The 38UB8K2 is specialized for machining high-precision and complicated shaped parts.

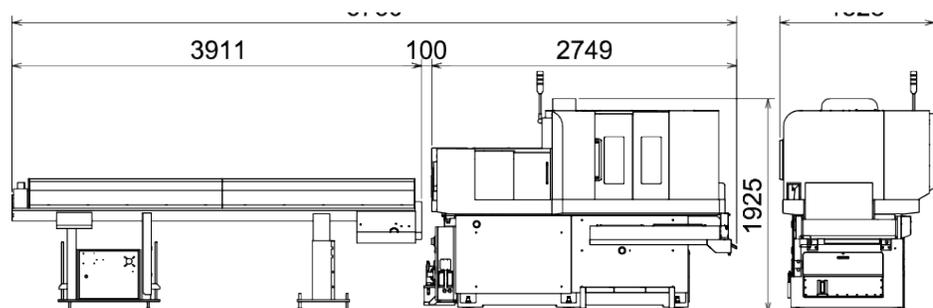
Offering a shortened cycle time, long drill, horizontal tool post and, a dovetail structure. With the optional non-guide bushing mode, the max machining diameter can be increased to 42mm diameter.



### NN-38UB8K2 Specifications

Total Tools	28
Spindle Speed (RPM)	8,000rpm
Main Spindle Axes	4
Back Spindle Axes	3
Max. Stock Diameter (mm   inches)	Ø 38mm (OP:Ø 42mm)   Ø 1.50" (OP:Ø 1.65")
Max Axis Feed Rate	30 m/min
Spindle Power	7.5/5.5kW
Control	Mitsubishi M80 Type A

### Floor Layout





# MILLING SERIES

## Compact Machining Center

# DST-36D

The DST-36D is a highly rigid and repeatable curvic coupling design, blending speed and power in a compact footprint.

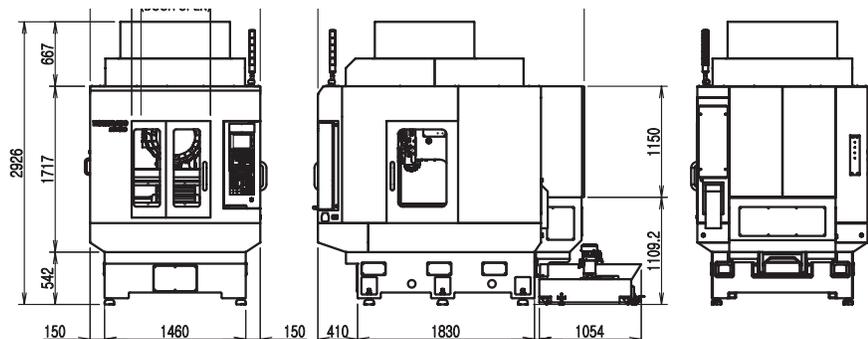
Its built-in work changer is perfect for production jobs, allowing the operator to load and unload parts while simultaneously machining.



## DST-36D Specifications

Taper	30 - BBT30 with face contact
HP Spindle	10 HP (7.5 HP with optional 24k spindle)
RPM	15,000 RPM plus optional RPM (24,000)
Floor Space	69.3 x 108.7 in
Table Size (mm   inches)	2 - 650 x 400mm   2 - 25.59 x 15.75 in
Control	Mitsubishi M80
Tool Stations	21
Travel X, Y, Z (mm   inches)	520 x 360 x 350mm   20.47 x 14.17 x 13.78 in
Rapid Traverse	1,889.7 x 1,889.7 x 2,362.2 ipm

## Floor Layout



## Compact Machining Center

# DST-40L

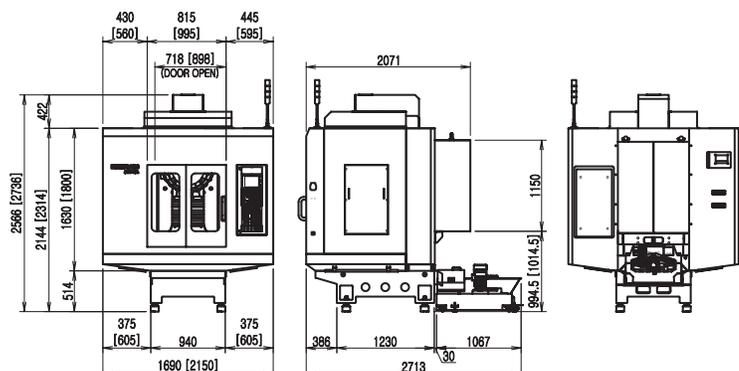
The DST-40L is a high-speed, high-efficiency tapping center, capable of performing a wide range of work from light cutting for the IT industry to heavy cutting for the automotive industry. Its direct coupled spindle motor and highly rigid spindle allow for reduced spindle acceleration/ deceleration time.



## DST-40L Specifications

Taper	30 - BBT30 with face contact
HP Spindle	10 HP (7.5 HP with optional 24k spindle)
RPM	15,000 RPM plus optional RPM (24,000)
Floor Space	84.7 x 81.9 in
Table Size (mm   inches)	850 x 400mm   33.47 x 15.75 in
Control	Mitsubishi M80
Tool Stations	21
Travel X, Y, Z (mm   inches)	720 x 400 x 350mm   28.35 x 15.75 x 13.78 in
Rapid Traverse	2,362.2 ipm

## Floor Layout



## Compact Machining Center

# DST-40DS

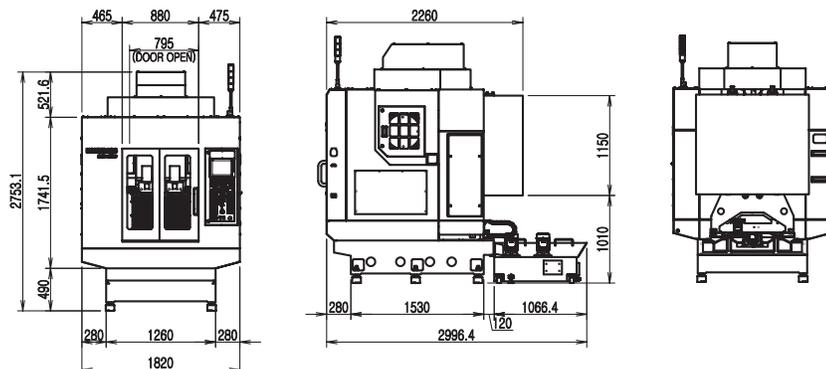
The DST-40DS is a dual-spindle drill tap, which makes it equivalent to two machines in a single footprint. Its 2-head construction allows independent off-sets and synchronized operations of the Z axis and W axis, resulting in the ability to produce two products in a single operation as well as a short loading/unloading time.



## DST-40DS Specifications

Taper	30 - BBT30 with face contact
HP Spindle	10 HP (7.5 HP with optional 24k spindle)
RPM	15,000 RPM plus optional RPM (24,000)
Floor Space	71.7 x 89.0 in
Table Size (mm   inches)	750 x 400mm   29.53 x 15.75 in
Control	Mitsubishi M80
Tool Stations	24 x 2
Travel X, Y, Z/W (mm/inches)	540 x 400 x 400/400mm   21.26 x 15.75 x 15.75 in
Rapid Traverse	2,362.2 ipm

## Floor Layout



## Compact Machining Center

# DST-40DL

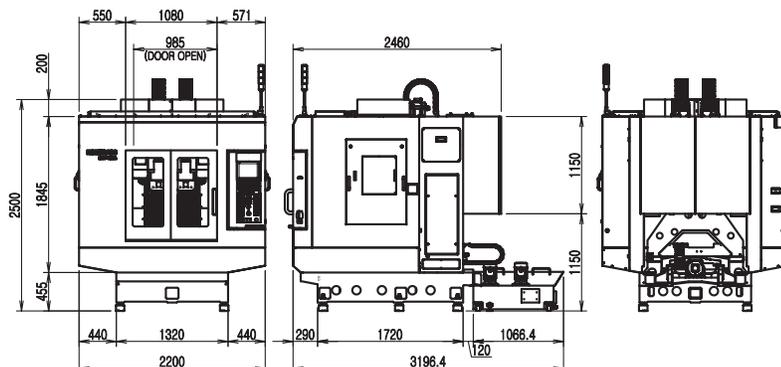
The DST-40DL is a dual-spindle drill tap, which makes it equivalent to two machines in a single footprint. Its 2-head construction allows independent off-sets and synchronized operations of the Z axis and W axis, resulting in the ability to produce two products in a single operation as well as a short loading/unloading time.



## DST-40DL Specifications

Taper	30 - BBT30 with face contact
HP Spindle	10 HP (7.5 HP with optional 24k spindle)
RPM	15,000 RPM plus optional RPM (24,000)
Floor Space	86.7 x 96.9 in
Table Size (mm   inches)	1060 x 400mm   41.73 x 15.75 in
Control	Mitsubishi M80
Tool Stations	20 x 2
Travel X, Y, Z/W (mm   inches)	720 x 400 (+200) x 480mm   28.35 x 15.75 x (+7.87) x 18.9 in
Rapid Traverse	2,362.2 ipm

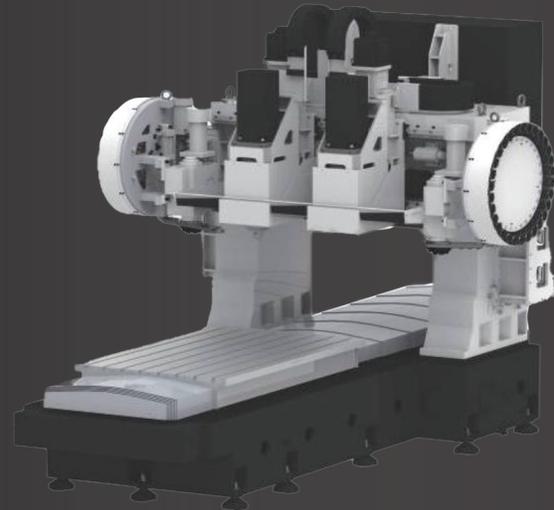
## Floor Layout



## Compact Machining Center

# E-100DV

The E-100DV is a dual-spindle bridge mill design for machining longer parts. It is equivalent to two machines in a single footprint. Its 2-head construction allows independent offsets and synchronized operations of the Z axis and W axis, resulting in the ability to produce two products in a single operation as well as a short loading/unloading time.



### E-100DV Specifications

Taper	30 - BBT30 with face contact
HP Spindle	7 HP
RPM	24,000 RPM plus optional RPM (15,000)
Floor Space	118.11 x 124.41 in
Table Size (mm   inches)	1400 x 700mm   55.12 x 27.56 in
Control	Mitsubishi M80
Tool Stations	24 x 2
Travel X, Y, Z (mm   inches)	640(X,U) x 1000 x 350(Z,W)mm 25.19(X, U) x 39.37 x 13.78(Z, W)
Rapid Traverse	1889.7 ipm

**Keep Your Machines  
Running Smoothly  
with Nomura DS  
Service and Support**

Nomura DS offers preventative maintenance programs to help customers avoid costly repairs. Properly maintained equipment can help businesses stay productive by minimizing scrap, rework, and missed deadlines.

Nomura DS also offers replacement parts, training for machine operators, and financing options.

## Compact Machining Center

# E-50DM

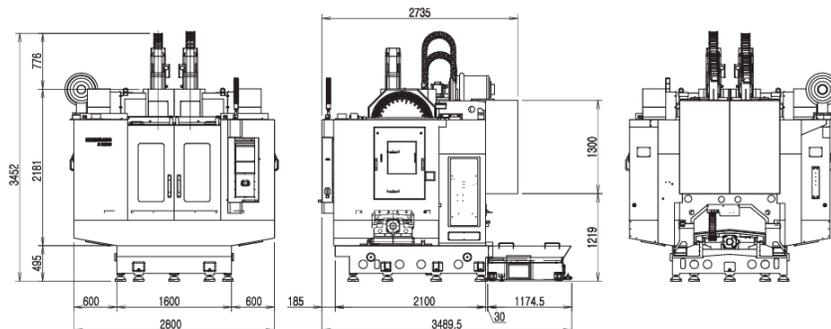
The E-50DM is a dual-spindle 40-taper vertical machining center, which makes it equivalent to two machines in a single footprint. Its 2-head construction allows independent off-sets and synchronized operations of the Z axis and W axis, resulting in the ability to produce two products in a single operation as well as a short loading/unloading time.



## E-50DM Specifications

Taper	40 - CT40
HP Spindle	25 HP
RPM	12,000 RPM
Floor Space	110.25 x 107.68 in
Table Size (mm   inches)	1200 x 520mm   47.24 x 20.47 in
Control	Mitsubishi M80
Tool Stations	30 x 2
Travel X, Y, Z/W (mm   inches)	750 x 520 x 550/550mm 29.53 x 20.47 x 21.65/21.65 in
Rapid Traverse	1889.7 ipm

## Floor Layout





## Compact Machining Center

# S-450D

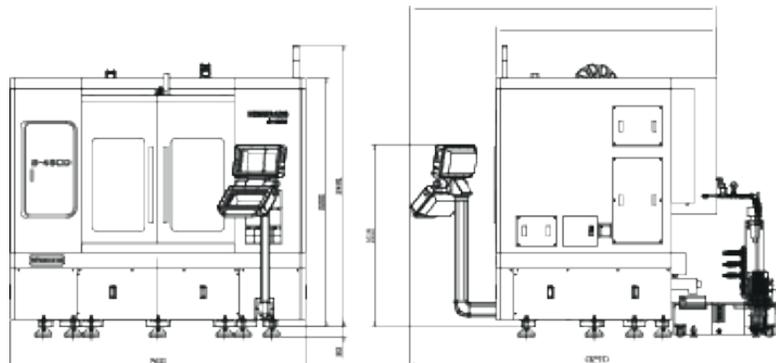
The S-450D is a HSK-E32 taper dual-spindle bridge mill design with ultrasonic spindles for micro hole machining. It is equivalent to two machines in a single footprint. Its 2-head construction allows independent offsets and synchronized operations of the Z axis and W axis, resulting in the ability to produce accurate micro holes with extreme precision and increased surface finishes.



## S-450D Specifications

Taper	HSK-E32 - Ultrasonic
HP Spindle	8 HP
RPM	38,000 RPM plus optional RPM (48,000) (58,000)
Floor Space	106.69 x 102.36 in
Table Size (mm   inches)	2 – 450 x 500mm   17.71 x 19.69 in
Control	Mitsubishi M80
Tool Stations	12 x 2
Travel X/U ,Y/V, Z/W (mm   inches)	700/700 x 450/450 x 120/120mm 27.56/27.56 x 17.71/17.71 x 4.72/4.72 in
Rapid Traverse	1889.7 ipm

## Floor Layout



## Compact Machining Center

# S-500D

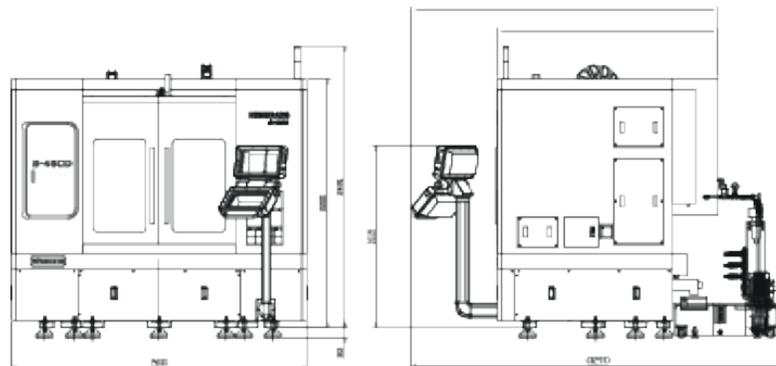
The S-500D is a HSK-E32 taper dual-spindle bridge mill design with ultrasonic spindles for micro hole machining. It is equivalent to two machines in a single footprint. Its 2-head construction allows independent offsets and synchronized operations of the Z axis and W axis, resulting in the ability to produce accurate micro holes with extreme precision and increased surface finishes.



## S-500D Specifications

Taper	HSK-E32 - Ultrasonic
HP Spindle	8 HP
RPM	38,000 RPM plus optional RPM (48,000) (58,000)
Floor Space	106.69 x 102.36 in
Table Size (mm   inches)	2 – 500 x 500mm   19.69 x 19.69 in
Control	Mitsubishi M80
Tool Stations	12 x 2
Travel: X/U , Y/V, Z/W (mm   inches)	700/700 x 500/500 x 200/200mm 27.56/27.56 x 19.69/19.69 x 7.87/7.87 in
Rapid Traverse	1889.7 ipm

## Floor Layout



# Control

The Mitsubishi CNC M80 Series has advanced CNC flat design that brings infinite possibilities and innovative value to the machining site. Including faster, smoother, more precise, and simpler.

This minimizes users' lifecycle cost  
Intuitive operation with touch panel



## High-Performance CNC Controller (M70VA/M80 Mitsubishi)

Extremely simplified operation by a leading-edge CNC system and Nomura technology

Complex machine ability is achieved through use of Mitsubishi's advanced technology and software

## Improvement of the Machining Accuracy and Reduction Of Cycle Time

Achieves high-accuracy positioning & repeatability, allowing for superior surface finishes through the use of high-resolution interpolation cycles (0.1 $\mu$ m)

Reduction of non-cutting cycle times by use of high-speed PLC's and processors

## Operator Friendly and Easily Set-up

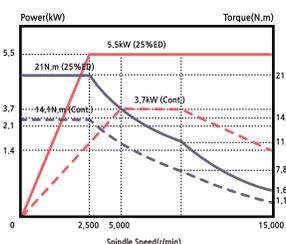
Intuitive control layout and design allows for the reduction of key strokes and minimizes the number of screen pages to manipulate

NAVI MILL interactive/conversational programming

# Spindle Motor Power & Torque

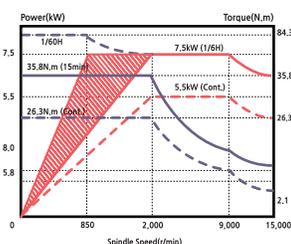
Mitsubishi

M-15,000R/min

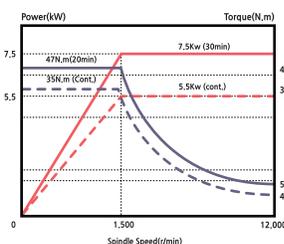


M-15,000R/min

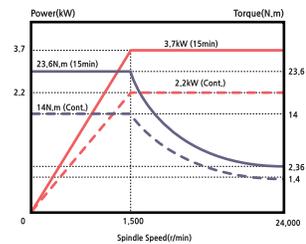
High Torque



M-12,000R/min



M-24,000R/min



# Who We Serve

Nomura DS serves an extensive range of industries with our turning and milling machine tools. Whether you're crafting intricate parts, producing high-performance automotive components, or bringing your vision to life in demanding electronics manufacturing, Nomura DS empowers you to achieve precision, efficiency, and quality on every project.

- Medical Implants
- Specialty Fasteners
- Offroad Aftermarket Parts
- Industrial Machine Components
- Consumer Parts
- Automotive Parts
- Defense/Military/Arms Parts
- Electrical Connectors and Components

