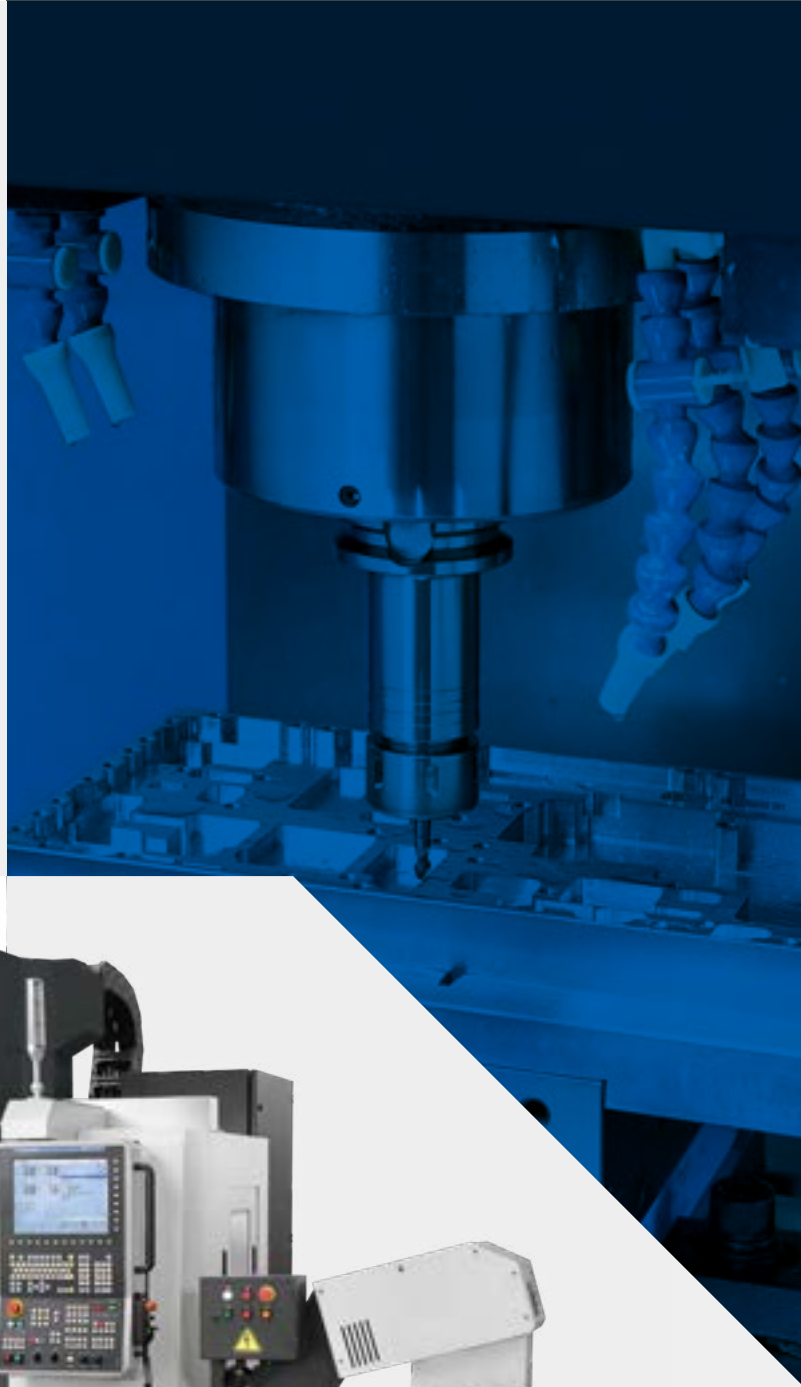


HIGH PRODUCTIVITY SWIFT VERTICAL MACHINING CENTER

SVM

SVM 4100

SVM 5100L



SVM 4100 • 5100L

The SVM series vertical machining center has been developed to meet the increased demand for the machining of aluminum die castings in 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 improving the acceleration/deceleration times of the XYZ axes and spindle, thereby reducing the non-cutting times. In order to design a machine that can handle a wide range of parts, DN Solutions has created a machine with the largest machining envelope in its class, together with many other important features such as thermal displacement correction for the direct-drive spindle and the EZ work.



SVM series is a lightweight cutting optimization product that boasts excellent production performance and provides final production efficiency to customers who process lightweight materials such as aluminum.



NON-CUTTING TIMES HAVE BEEN DRASTICALLY REDUCED TO REALIZE THE HIGHEST PRODUCTIVITY IN ITS CLASS.

- Acceleration/Deceleration rates for the spindle and axis drives have been optimized to ensure high productivity.
- Tool change times (T-T-T and C-T-C) have been improved to reduce the non-cutting time between machining operations.

OPTIMIZED MACHINE DESIGN FOR FAST MACHINING OF LIGHTWEIGHT MATERIALS.

- A range of features are available to meet the customers' machining requirements, such as the automatic ATC shutter and programmable coolant nozzles.

SPINDLE RELIABILITY AND THERMAL DISPLACEMENT OPTIMIZATION

- The thermal displacement correction function is applied as standard to optimize machining accuracy and to compensate for temperature variations in the surrounding environment.
- DN Solutions's direct connection spindle motor technology is applied to minimize noise and vibration and ensure a high level of reliability over long periods of operation.
- Grease lubrication is used as standard to reduce running costs and provide an eco-friendly operation.

BASIC STRUCTURE

The SVM machine incorporates DN Solutions's traditional C-frame design structure, but has been optimized for higher productivity when undertaking fast and light duty machining operations.

Travel distance (X x Y x Z axis)

SVM 4100

X-axis **770** mm 30.3 inch

Y-axis **410** mm 16.1 inch

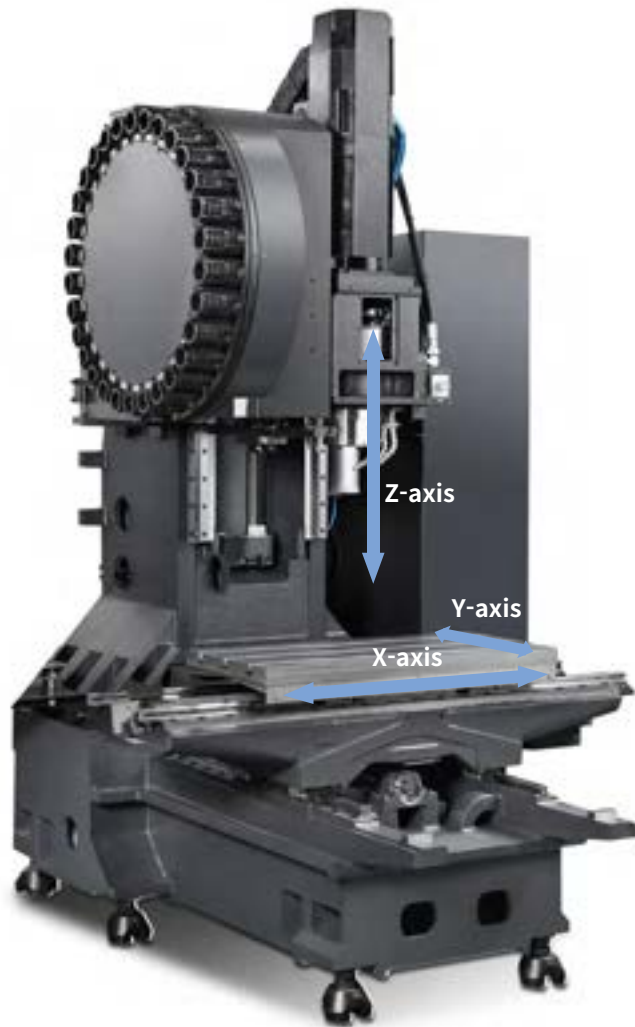
Z-axis **510** mm 20.1 inch

SVM 5100L

X-axis **1270** mm 50.0 inch

Y-axis **510** mm 20.1 inch

Z-axis **510** mm 20.1 inch



AXIS SYSTEM

Non-cutting times have been drastically reduced by optimizing the acceleration/deceleration rates for the axis feed systems.

Rapid traverse rate (X / Y / Z axis)

36 / 36 / 36 m/min

1417.3 / 1417.3 / 1417.3 ipm

Acceleration/deceleration time (G)

SVM 4100

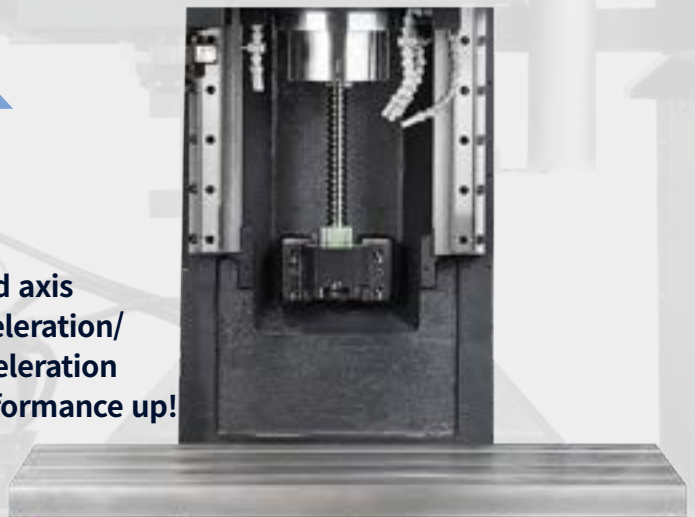
0.7 / 0.6 / 0.6

SVM 5100L

0.6 / 0.5 / 0.6



**Feed axis
acceleration/
deceleration
performance up!**



Grease lubrication for all axes is a standard feature

SPINDLE

Optimized machine table size and maximum allowable load capacity provide the largest machining area in its class.

Max. spindle speed

12000 r/min

Max. spindle motor power

18.5 kW
24.8 Hp

Max. spindle motor torque

95.5 N·m
70.5 ft-lbs



TABLE

The direct connection type spindle is supplied as standard. The noise and vibration levels are reduced to improve operator comfort.

Table size (A x B)

SVM 4100

920 x 410 mm 36.2 x 16.1 inch

SVM 5100L

1320 x 510 mm 52.0 x 20.1 inch

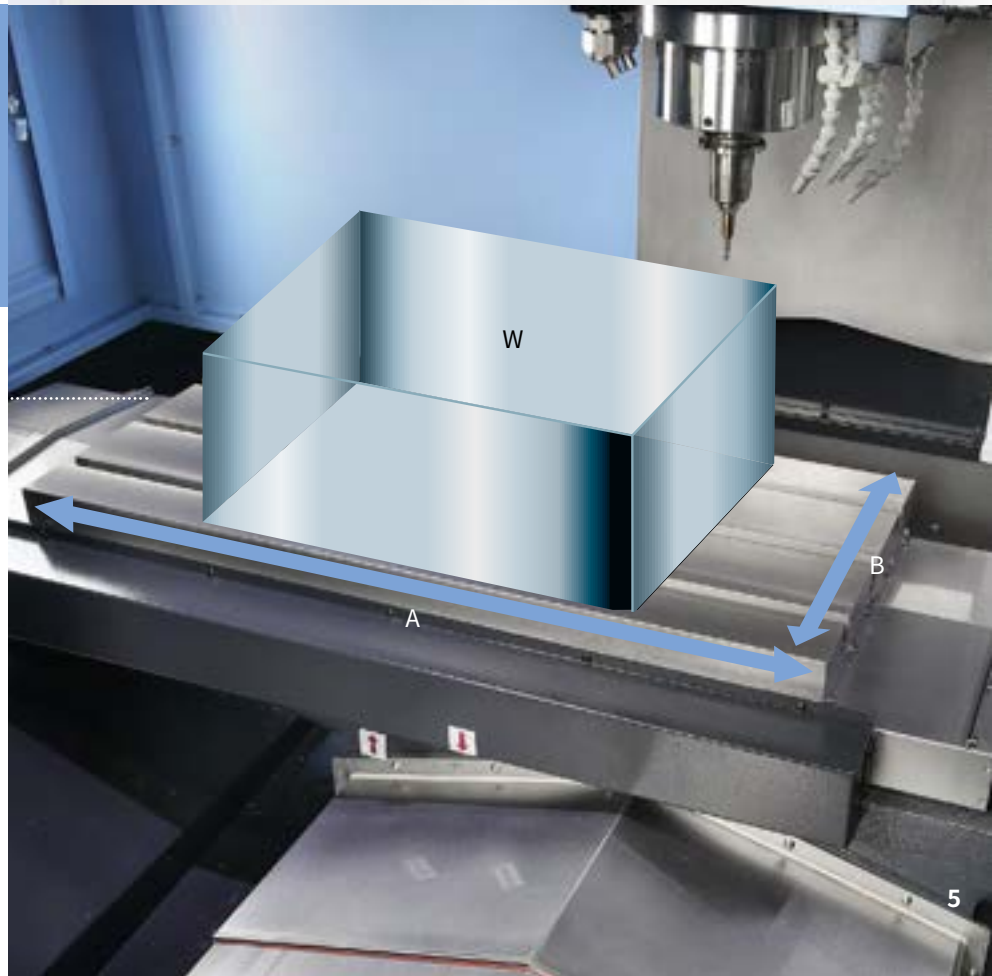
Max weight on table (W)

SVM 4100

600 kg
1322.8 lb

SVM 5100L

800 kg
1763.7 lb



TOOL CHANGE SYSTEM

In order to reduce the non-cutting time between machining operations, the tool change time has been optimized compared to similar models.

Tool to tool time

1.3 s

Chip to chip* time

3.3 s

** The Chip-to-Chip time has been tested in accordance with DN Solutions's strict testing procedures, but may vary depending on different operating conditions.*



MAGAZINE

Tool storage capacity

30 ea



Brush (std.)

A barrier brush is used to prevent chip ingress into ATC area during machining.

ATC shutter option

An ATC shutter door can be specified instead of the brush to provide a higher level of protection from chip ingress.



STANDARD | OPTIONAL SPECIFICATIONS

Various optional features are available to satisfy customers' specific machining applications.


| Description | Features | SVM 4100 / SVM 5100L | |
|---|---|--|---------------|
| Spindle | 12000 r/min (Unit: kW(Hp), N·m(ft·lbs)) | 18.5/5.5 kW (24.8/7.4 Hp), 95.9 N·m (70.5 ft·lbs) | |
| Magazine | Tool storage capacity | 30 ea | |
| Tool shank type | BIG PLUS BT40 | ● | |
| | BIG PLUS CAT40 | ○ | |
| | BIG PLUS DIN40 | ○ | |
| Coolant system | 200L/min (1.1kW) | SVM 4100 | |
| | 0.19MPa, 0.4kW | SVM 5100L | |
| | 0.69MPa, 1.1kW | SVM 5100L | |
| | SVM 4100 | Flood + Base (Tank capacity/Pump motor power) | 280 L/1.1 kW |
| | | Flood + Base + PFC (Tank capacity/Pump motor power) | 280 L/ 1.1 kW |
| | | TSC Middle (Tank capacity/Pump motor power) | 280 L/1.5 kW |
| | | TSC Middle 2 (Tank capacity/Pump motor power) | 140 L/2.9 kW |
| | | TSC High (Tank capacity/Pump motor power) | 140 L/7.5 kW |
| | | Shower coolant (Tank capacity/Pump motor power) | 280 L/1.1 kW |
| | | Top flushing (Tank capacity/Pump motor power) | 280 L/1.1 kW |
| | SVM 5100L | Coolant gun (Tank capacity/Pump motor power) | 280 L/0.6 kW |
| | | Flood coolant (Tank capacity/Pump motor power) | 380 L/0.4 kW |
| | | Flood coolant 2 (Tank capacity/Pump motor power) | 380 L/1.1 kW |
| | | TSC Middle (Tank capacity/Pump motor power) | 380 L/1.5 kW |
| | | TSG Middle 2 (Tank capacity/Pump motor power) | 140 L/2.9 kW |
| | | TSC High (Tank capacity/Pump motor power) | 140 L/7.5 kW |
| | | Shower coolant (Tank capacity/Pump motor power) | 380 L/1.1 kW |
| Top flushing (Tank capacity/Pump motor power) | 380 L/1.8 kW | | |
| Coolant gun (Tank capacity/Pump motor power) | 380 L/0.6 kW | | |
| Chip disposal | Chip conveyor | Chip pan | |
| | | Hinged type (Left/Right) | |
| | | Magnetic scraper type (Left/Right) | |
| | Chip bucket | ○ | |
| | Air blower | ○ | |
| | AIR GUN | ○ | |
| Precision machining option | Coolant gun | ○ | |
| | Mist collector | ○ | |
| | Linear scale | X / Y / Z axis | |
| Measurement & Automation | HSCC (700 block) | ● | |
| | Spindle thermal compensation function | SENSORLESS TYPE | |
| | Automatic tool measurement | TS27R_Renishaw | |
| | | ZX Speed_Blum | |
| | | OTS_Renishaw | |
| | | NC4_Renishaw | |
| | Automatic tool breakage detection | ○ | |
| Automatic workpiece measurement | OMP60_Renishaw | | |
| | TC50_Blum | | |
| Automatic front door with safety edge | ○ | | |
| 4 axis Rotary table | S-200M4-DS | SVM 4100 / SVM 5100L | |
| | S-250M8-DS | SVM 5100L | |
| | S-320M8-DS | SVM 5100L | |
| | 4 axis Ready | Cabling for Servo/1-Pneumatic piping | |
| Accessories | LED lamp | ● | |
| | 3-Color signal tower(LED) | ● | |
| | Auto power off | ○ | |
| Customized Special Option | Anchoring | Slide clamp & Chemical anchor bolt | |
| | Water soluble Coolant Chiller** | ○ | |
| | Automatic tool measurement | LTS_Renishaw | |
| | Automatic tool breakage detection | MSC/BK9 (Needle type on magazine) | |
| | Raising Column | ○ | |

*Please contact DN Solutions to select detail specifications

*When using a semi-synthetic type or synthetic type, contact our sales representative or service center in advance.

** Technical consultation is mandatory for the chilling of non-water soluble coolant

● Standard ○ Optional X Not applicable

 **Fire Safety Precautions** | There is a high risk of fire when using non-water-soluble cutting fluids, processing flammable materials, neglecting the controlled and careful use of coolants and modifying the machine without the consent of the manufacturer. Always check the SAFETY GUIDELINES carefully before using the machine.

PERIPHERAL EQUIPMENT

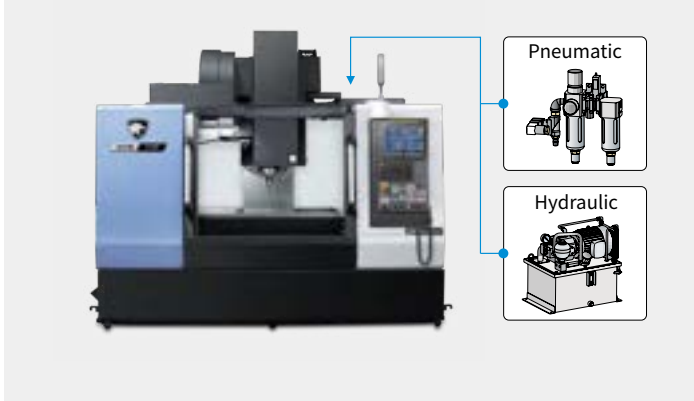
Chip conveyor option



| Chip conveyor type | Material | Description |
|--------------------|-----------|--|
| Hinged belt | Steel | Hinged belt chip conveyor, which is most commonly used for steel work [for cleaning chips longer than 30mm(1.2inch)], is available as an option. |
| Magnetic scraper | Cast Iron | Magnetic scraper type chip conveyor, which is ideal for die-casting work [for cleaning small chips], is available as an option. |

Hydraulic / Pneumatic fixture line option

The user should prepare pipelines for hydraulic/pneumatic fixtures whose detailed specifications should be determined through discussions with DN Solutions.



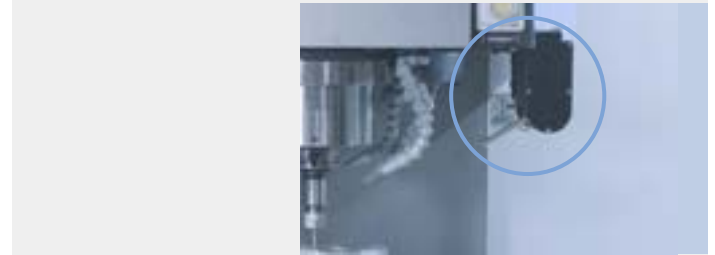
4 axis rotary table option

High speed. The high-precision split system enables vertical and horizontal use, and provides a strong clamping force with its compact and high rigidity body design, and the double piston application.



PFC(Programmable flood coolant)

The coolant nozzle direction is controlled by a program. It is adjusted according to the required angle (steps 1 to 15), and it can be used for various tool lengths, thereby improving tool life.



Coolant chiller option

The heat generated by machining operations is circulated by the cutting oil. This heat is therefore transferred to the machine body, workpiece and fixtures, causing thermal deformation, which adversely affects precision. We recommend a coolant chiller that can prevent such temperature rises from occurring and that can minimize thermal deformation is used. This is particularly the case when a water-insoluble coolant or high-pressure coolant system is being used.



Chip bucket option

Capacity
300 L (79.3 gal)

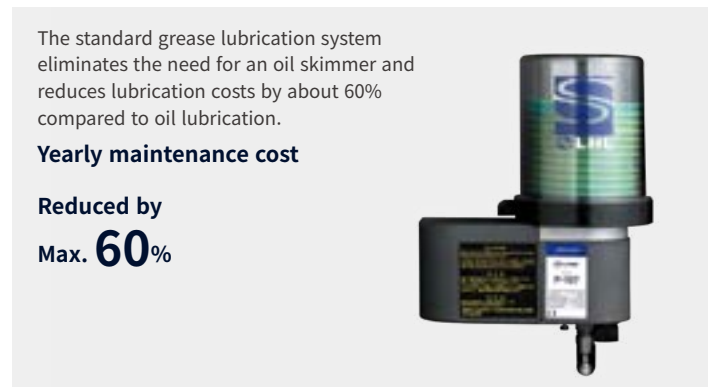


Grease lubrication system

The standard grease lubrication system eliminates the need for an oil skimmer and reduces lubrication costs by about 60% compared to oil lubrication.

Yearly maintenance cost

Reduced by
Max. 60%



DN SOLUTIONS FANUC i PLUS

DN Solutions Fanuc i Plus is optimized for maximizing customer productivity and convenience.

15 inch screen + new operation panel

DN Solutions Fanuc i Plus' operation panel enhances operating convenience by incorporating common-design buttons and layout, and features the Qwerty keyboard for fast and easy operation.

DN Solutions Fanuc i Plus

- 15 inch color display
- Intuitive and user-friendly design

USB & PCMCIA card

QWERTY keyboard

- EZ-guide i standard
- Ergonomic operator panel
- 2MB Memory
- Hot key



iHMI touchscreen option

iHMI provides an intuitive interface that uses a touchscreen for quick and easy operation.

Range of applications

Providing various applications related to planning, machining, improvement and utility, for customer convenience.

NUMERIC CONTROL SPECIFICATIONS

FANUC

| Item | Specifications | DN Solutions Fanuc i (0i PLUS) SVM 4100 / SVM 5100L | |
|---|---|--|-----------------|
| Controlled axis | Controlled axes | 3 (X,Y,Z) | |
| | Simultaneously controlled axes | 3 axis | |
| | Additional controlled Axis | Add 1 Axis (5th Axis) | ● |
| Data input/output | Fast data server | ○ | |
| | Memory card input/output | ● | |
| | USB memory input/output | ● | |
| | Large capacity memory(2GB)*2 | Available Option only with 15" Touch LCD (iHMI Only) *2) | ○ |
| Interface function | Embedded Ethernet | ● | |
| | Fast Ethernet | ○ | |
| | Enhanced Embedded Ethernet function | ● | |
| Operation | DNC operation | Included in RS232C interface. | |
| | DNC operation with memory card | ● | |
| Program input | Workpiece coordinate system | G52 - G59 | |
| | Addition of workpiece coordinate system | G54.1 P1 X 48 (48 pairs) | ● |
| | Tool number command | | T4 digits |
| | Tilted working plane indexing command | G68.2 TWP | ○ |
| Feed function | AI contour control I | G5.1 Q, 40 Blocks | X |
| | AI contour control II | G5.1 Q, 200 Blocks | ● |
| | AI contour control III | G5.1 Q, 600 Blocks | X |
| | AI contour control IV | G5.1 Q, 1000 Blocks *1) | X |
| | High smooth TCP | | X |
| Operation guidance function | EZ Guidei (Conversational Programming Solution) | | ● |
| | iHMI with Machining Cycle | Only with 15" Touch LCD standard *2) | X |
| | EZ Operation package | | ● |
| Setting and display | CNC screen dual display function | | ● |
| | FANUC MTCconnect | | ⊕ |
| Network | FANUC OPC UA | | ⊕ |
| | Others | Display unit | 10.4" color LCD |
| 15" color LCD | | | X |
| Part program storage size & Number of registerable programs | | 15" color LCD with Touch Panel | ● |
| | | 640M(256KB)_500 programs | X |
| | | 1280M(512KB)_1000 programs | X |
| | | 2560M(1MB)_1000 programs | X |
| | | 5120M(2MB)_1000 programs | ● |
| | | 10240M(4MB)_1000 programs | X |
| | | 20480M(8MB)_1000 programs | X |
| | | 2560M(1MB)_2000 programs | X |
| | | 5120M(2MB)_4000 programs | X |
| | | 10240M(4MB)_4000 programs | X |
| 20480M(8MB)_4000 programs | X | | |

*1) The number of look-ahead blocks may be changed or limited depending on the peripheral device or the configuration of the internal NC system.

*2) Available Option only with Fanuc i plus iHMI

● Standard ○ Optional X N/A ⊕ Available

Network: FANUC MT Connect and FANUC OPC UA available.

EZ WORK

The software developed by DN Solutions features numerous functions designed for convenience and ease of operation.

EZ work

The EZ work delivers speed and efficiency. This menu-driven innovation not only helps customers reduce setup times, but also simplifies common tasks and procedures, reducing the potential for errors. EZ work reduces operating time, protects machinery, enhances quality and speeds up maintenance interventions.

Conversational convenient function



EZ work Main screen

On the operation panel, press the CUSTOM1 button to display the initial EZ work screen.



Tool management

This function controls information on the tools in the tool magazine pots.



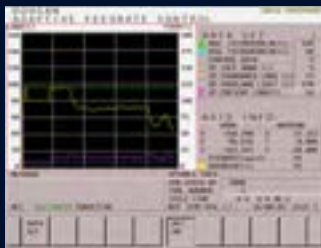
ATC recovery

In the event of an error during ATC (automatic tool changer) operations, follow the on-screen instructions for an easy and prompt solution.



Tool load monitoring

During cutting operations, abnormal loads caused by wear and tear of the tool are detected and an alarm is triggered to prevent further damage.



Adaptive Feed Control(AFC)

If tool overload is detected during operation, the feed rate is controlled to prevent the tool from being damaged.



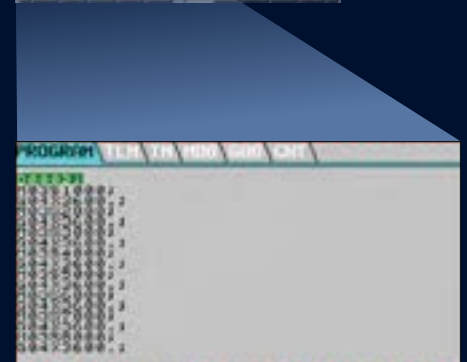
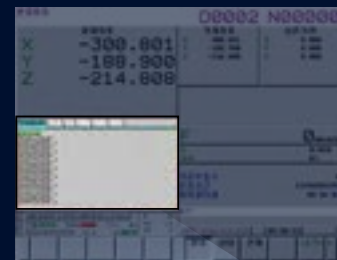
Thermal compensation function

A thermal error compensation function is provided as a standard feature to ensure stable cutting operations safe from potentially harmful environmental factors.

Pop-up function

Various EZ work functions can be monitored through the pop-up window on the NC main screen. (Press the CUSTOM2 button)

- 1 Display machining program
- 2 Tool Load Monitoring
- 3 Tool management data
- 4 M code list
- 5 G code list
- 6 Tool & Workpiece count



CONVENIENT OPERATION

SIEMENS 828D

15.6" screen + new operation panel

The newly-designed operation panel improves the customer convenience by incorporating and using common-design buttons and layouts, and includes the familiar QWERTY keyboard for fast and easy operation.

- 15.6" display
- 10MB high capacity user memory
- USB & ethernet (standard)
- QWERTY keyboard (standard)
- High-speed calculation and simulation can be fulfilled by improved processor functionality



Conversational convenient function



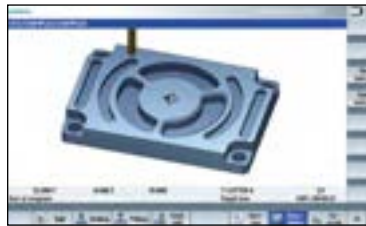
Shop Mill Part Programming



Smart function



Advanced program language programGUIDE



Simulation and machining contour monitoring



Side screen widget

NUMERIC CONTROL SPECIFICATIONS

SIEMENS

| Item | Specifications | S828D | |
|--------------------------------|---|-------------------------------|--------|
| | | SVM 4100 / SVM 5100L | |
| Controlled axis | Controlled axes | - | 3 axis |
| | Simultaneously controlled axes | - | 3 axis |
| Data input/output | Memory card input/output | (Local drive) | X |
| | USB memory input/output | | ● |
| Interface function | Ethernet | (X130) | ● |
| | On network drive | (without EES option, Extcall) | ● |
| Operation | On USB storage medium, e.g. memory stick | (without EES option, Extcall) | ● |
| | Workpiece coordinate system | G54 - G57 | ● |
| Program input | Addition of workpiece coordinate system | G505 - G599 | ● |
| | Advanced surface | | ● |
| Interpolation & Feed function | Top surface | | ○ |
| | Look ahead number of block | S/W version 4.95 | 450 |
| Programming & Editing function | 3D simulation, finished part | | ● |
| | Simultaneous recording | | ● |
| Operation Guidance Function | Measure kinematics | | X |
| | DXF Reader for PC integrated in SINUMERIK Operate | | ○ |
| Setting and display | ShopMill | | ● |
| | EZ Work | | ● |
| Network | Operation via a VNC viewer | | ● |
| | MTConnect | | ⊕ |
| Etc. function | OPCUA | | ○ |
| | 15.6" color display with touch screen | | ● |
| Etc. function | 19" color display without touch screen | | X |
| | 21.5" color display with touch screen | | X |
| | CNC user memory | 10 MB | ● |
| | Expansion by increments | 2 ~ 12 MB | ○ |
| | Collision avoidance | | X |
| | Collision avoidance ECO (machine, working area) | | X |

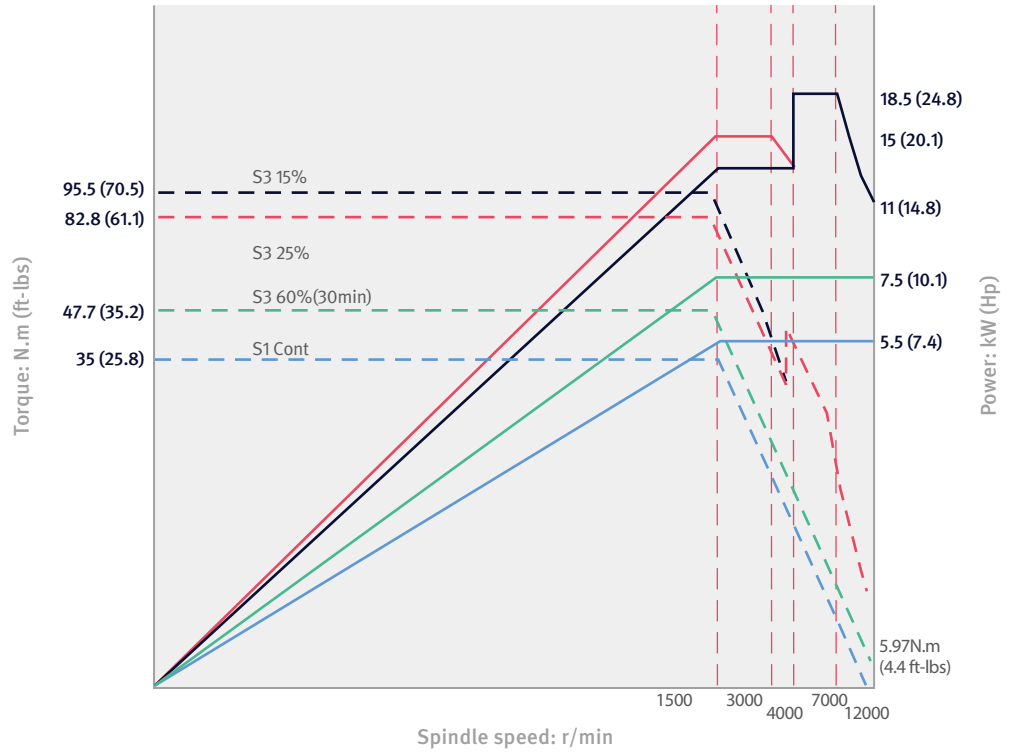
POWER | TORQUE

FANUC

SPEED: **12000** r/min

POWER: **18.5** kW
24.8 hp

TORQUE: **95.5** N·m
70.5 ft-lbs

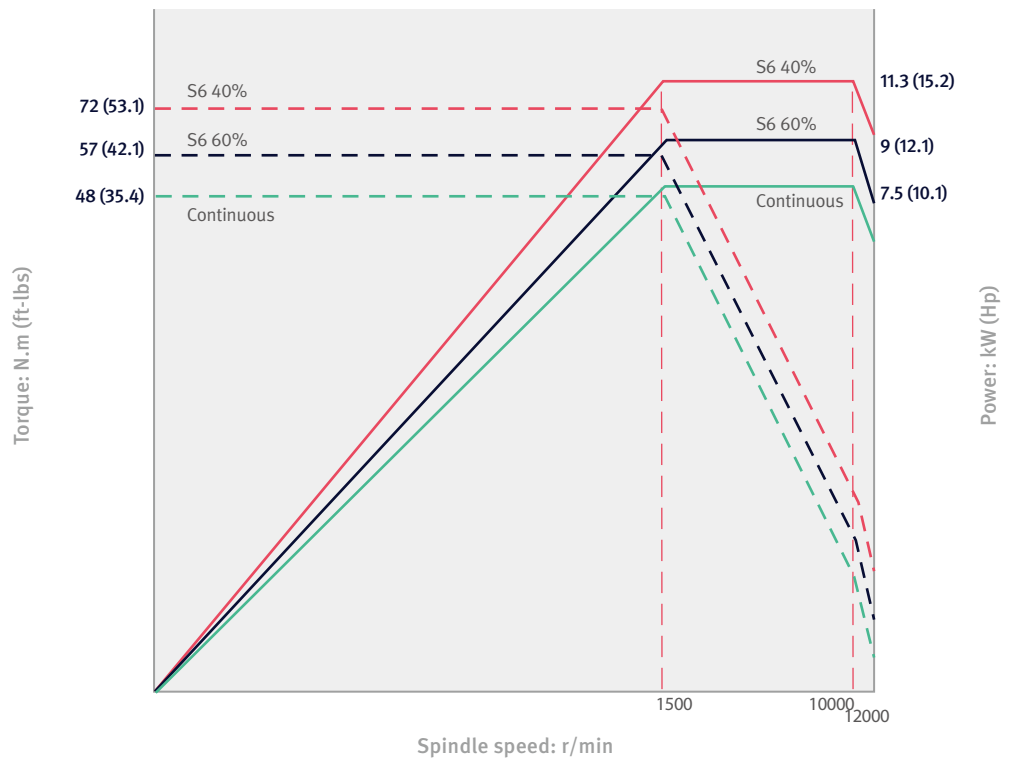


SIEMENS*

SPEED: **12000** r/min

POWER: **11.3** kW
15.2 hp

TORQUE: **72** N·m
53.1 ft-lbs

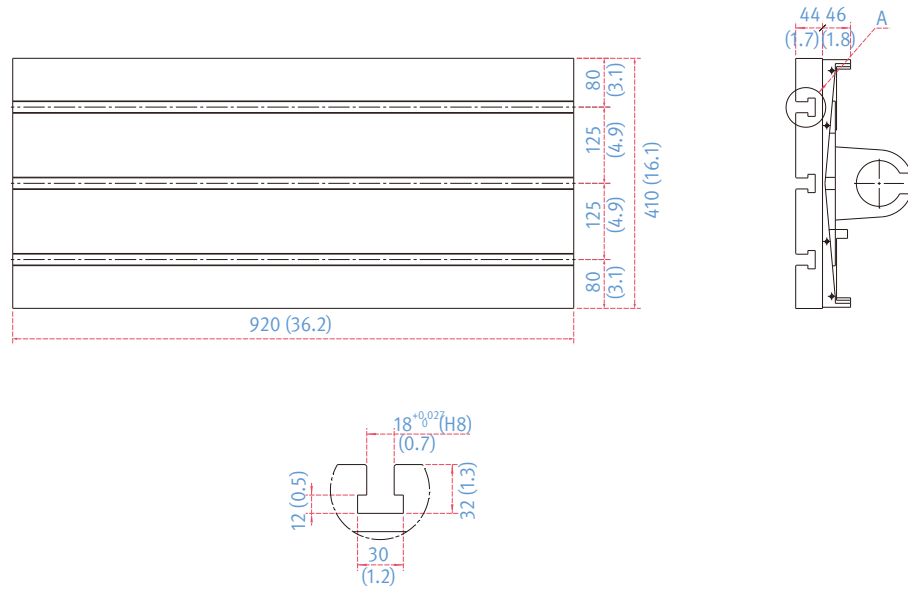


*available only for SVM 4100

TABLE

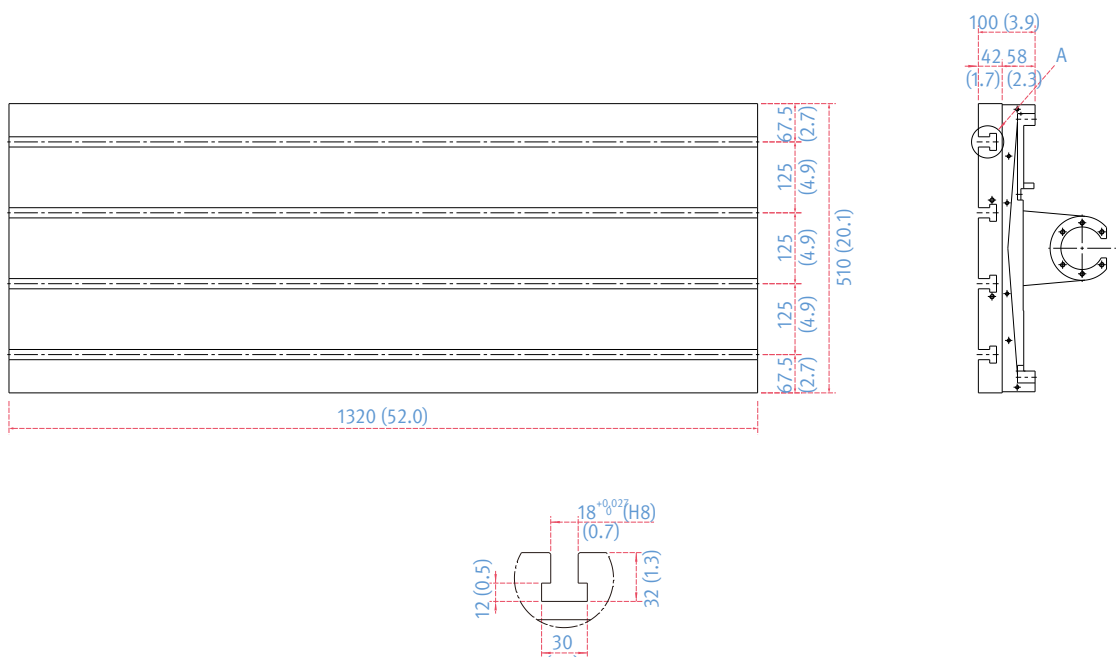
SVM 4100

Units : mm (inch)



SVM 5100L

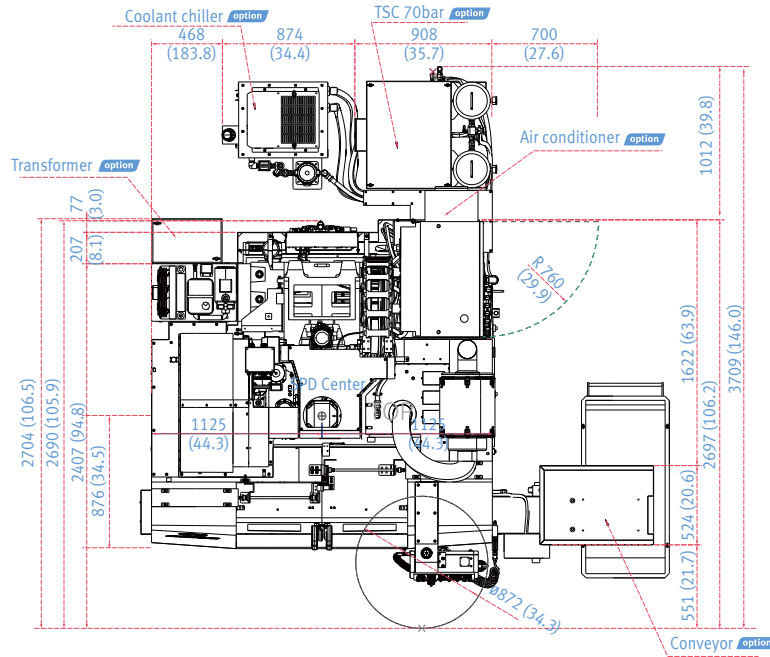
Units : mm (inch)



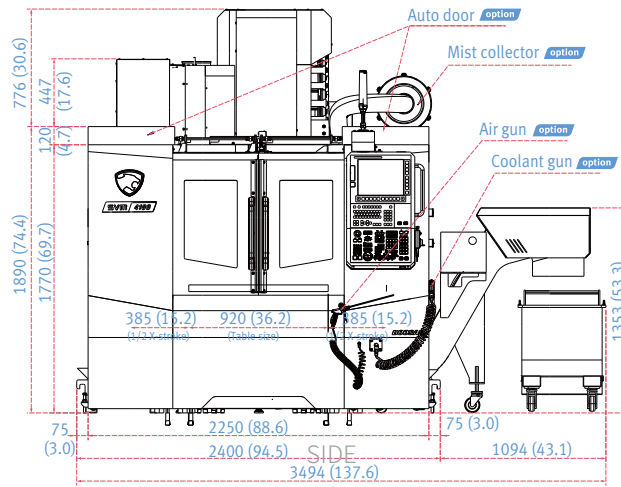
DIMENSIONS

SVM 4100

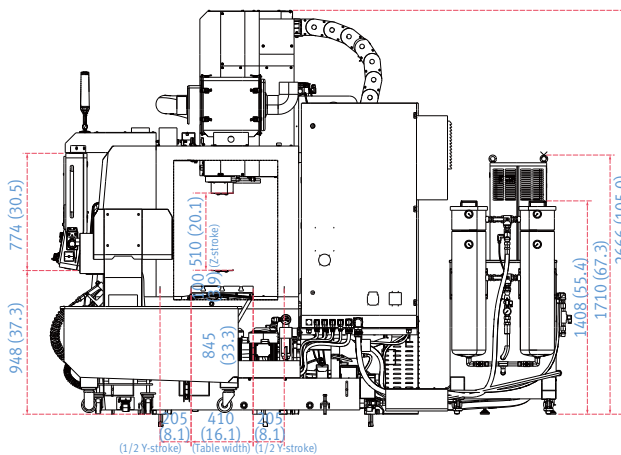
Units : mm (inch)



TOP



FRONT

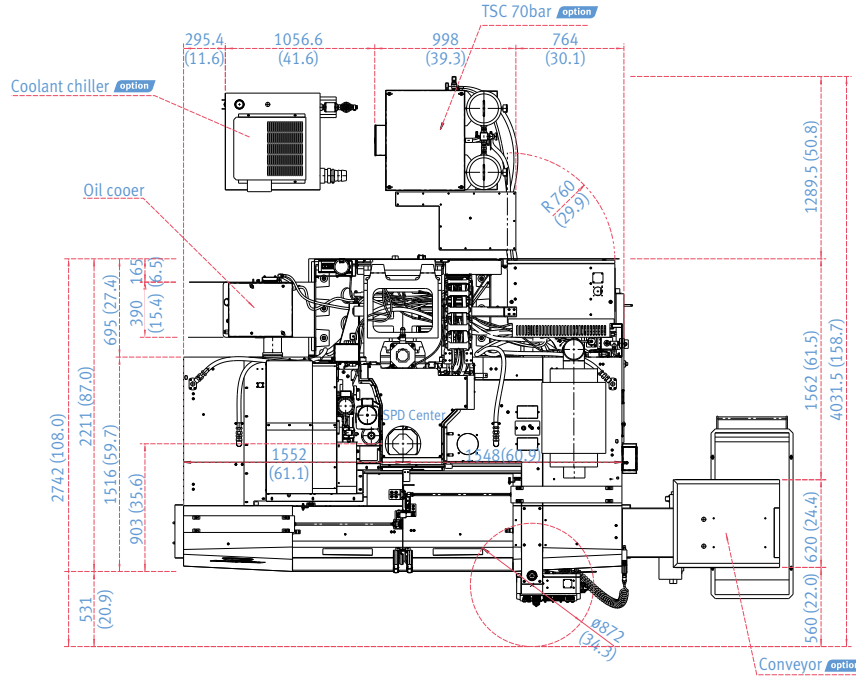


SIDE

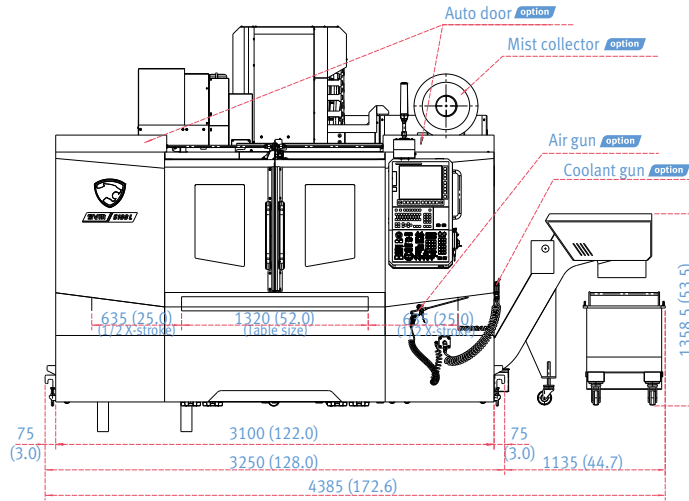
DIMENSIONS

SVM 5100L

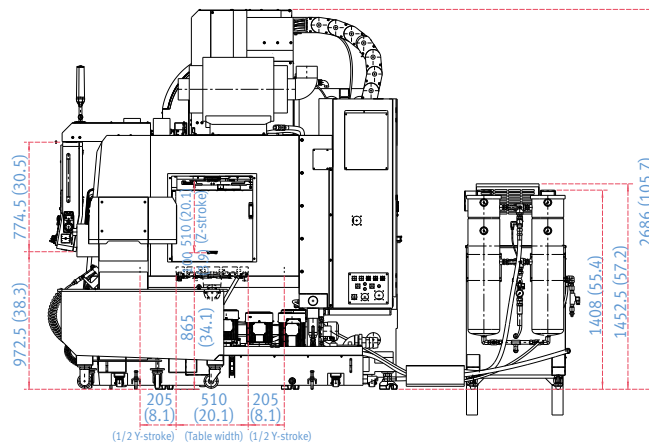
Units : mm (inch)



TOP



FRONT



SIDE

* Some peripheral equipment can be placed in other areas.

MACHINE SPECIFICATIONS

| Description | | Unit | SVM 4100 | SVM 5100L | |
|---------------------------------|---|------------------------|----------------|--------------------------------|-------------------------|
| Travels | Travel distance | X axis | mm (inch) | 770 (30.3) | 1270 (50.0) |
| | | Y axis | mm (inch) | 410 (16.1) | 510 (20.1) |
| | | Z axis | mm (inch) | 510 (20.1) | 510 (20.1) |
| | Distance from spindle nose to table top | | mm (inch) | 100~610 (3.9~24.0) | 100~610 (3.9~24.0) |
| Table | Table size | | mm (inch) | 920 x 410 (36.2 x 16.1) | 1320 X 510 (52.0x 20.1) |
| | Table loading capacity | | kg (lb) | 600 (1322.8) | 800 (1763.7) |
| | Table surface type | | mm | T-SLOT (3-125 x 18H8) | T-SLOT (4-125 x 18H8) |
| Spindle | Max. spindle speed | | r/min | 12000 | 12000 |
| | Taper | | - | ISO #40 | ISO #40 |
| | Max. spindle torque | | N · m (ft-lbs) | 95.5 (70.5) | 95.5 (70.5) |
| | Max. spindle power (S3/continuous) | | kW (Hp) | 18.5/5.5 (24.8/7.4) | 18.5/5.5 (24.8/7.4) |
| Feedrates | Rapid traverse rate | X axis | m/min (ipm) | 36 (1417.3) | 36 (1417.3) |
| | | Y axis | m/min (ipm) | 36 (1417.3) | 36 (1417.3) |
| | | Z axis | m/min (ipm) | 36 (1417.3) | 36 (1417.3) |
| Automatic tool changer | Type of tool shank | | - | BT 40 {CAT/ DIN} | BT 40 {CAT/ DIN} |
| | Tool storage capa. | | m/min (ipm) | 30 | 30 |
| | Max. tool diameter | Continuous | mm (inch) | 80 (3.1) | 80 (3.1) |
| | | Without adjacent tools | mm (inch) | 125 (4.9) | 125 (4.9) |
| | Max. tool length | | mm (inch) | 300 (11.8) | 300 (11.8) |
| | Max. tool weight | | kg (lb) | 6 (13.2) | 6 (13.2) |
| | Tool selection | | | MEMORY RANDOM | MEMORY RANDOM |
| | Tool change time (Tool-to-tool) | | sec | 1.3 | 1.3 |
| Tool change time (Chip-to-chip) | | sec | 3.3 | 3.3 | |
| Motor | Coolant pump motor power | | kW (Hp) | 1.1 (1.5) | 0.4 (0.54) |
| Power source | Electric power supply (rated capacity) | | kVA | 24.8 | 28.5 |
| | Compressed air supply | | MPa (psi) | 0.54 | 0.54 |
| Tank capacity | Coolant tank capacity | | L (gal) | 240 (63.4) | 380 (100.4) |
| Machine dimensions | Height | | mm (inch) | 2661 (104.8) | 2681 (105.6) |
| | Length | | mm (inch) | 2300 (90.6) | 2410 (95) |
| | Width | | mm (inch) | 2250 (88.6) | 3100 (122.0) |
| | Weight | | kg (lb) | 4100 (9038.8) | 5820 (12831) |
| Control | NC system | | - | FANUCi-SERIES SIEMENS S828D | FANUC i-SERIES |

The DN Solutions promise, MACHINE GREATNESS, has two important meanings. The first is simple: DN Solutions makes great machines. The second is a challenge to our end-users. With a product line that is this comprehensive, accurate and reliable, we equip our customers to machine greatness. The big question: *Why should you choose DN Solutions over other options?*

Here's why...



MACHINE GREATNESS™



WHAT YOU MAKE AND HOW YOU MAKE IT MATTERS—SO MAKE IT GREAT WITH DN SOLUTIONS.

UNBEATABLE MACHINES

You won't find a more comprehensive range or a better combination of value, performance and reliability anywhere else.

ROBUST PRODUCT LINE

We offer an impressive range of machine models and hundreds of configurations. Whatever your machining needs and requirements, there's a DN Solutions for you.

READILY AVAILABLE - ANYWHERE IN THE WORLD

Machining centres (including 5-axis machines), lathes, multi-tasking turning centres and mill-turn machines, and horizontal borers with best-in-class specifications are all available...ready to install.

EXPERT SERVICE

Our dedicated, experienced and knowledgeable team is totally committed to improving your productivity, growth and success.

CUSTOMER SUPPORT AND SERVICES

We're there for you whenever you need us.

We help our customers operate at maximum efficiency by providing them with a range of tried, tested and trusted services - from pre-sales consultancy to post-sales support.



FIELD SERVICES

- On-site service
- Machine installation and testing
- Scheduled preventive maintenance
- Machine repair service



PARTS SUPPLY

- Supplying a wide range of original DN Solutions spare parts
- Parts repair service



TRAINING

- Programming, machine setup and operation
- Electrical and mechanical maintenance
- Applications engineering



TECHNICAL SUPPORT

- Supports machining methods and technology
- Responds to technical queries
- Provides technical consultancy

RESPONDING TO CUSTOMERS **ANYTIME, ANYWHERE**

DN Solutions Global Network

DN Solutions provides systems-based professional support services, before and after the machine tool sale, by responding quickly and efficiently to customers. By supplying spare parts, product training, field service and technical support, we provide the expert care, attention and assistance our customers expect from a market leader.



| | |
|------------|------------------|
| 66 | Countries |
| 140 | + Sales networks |
| 3 | Factories |
| 6 | Service posts |



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