www.dmgmori.com

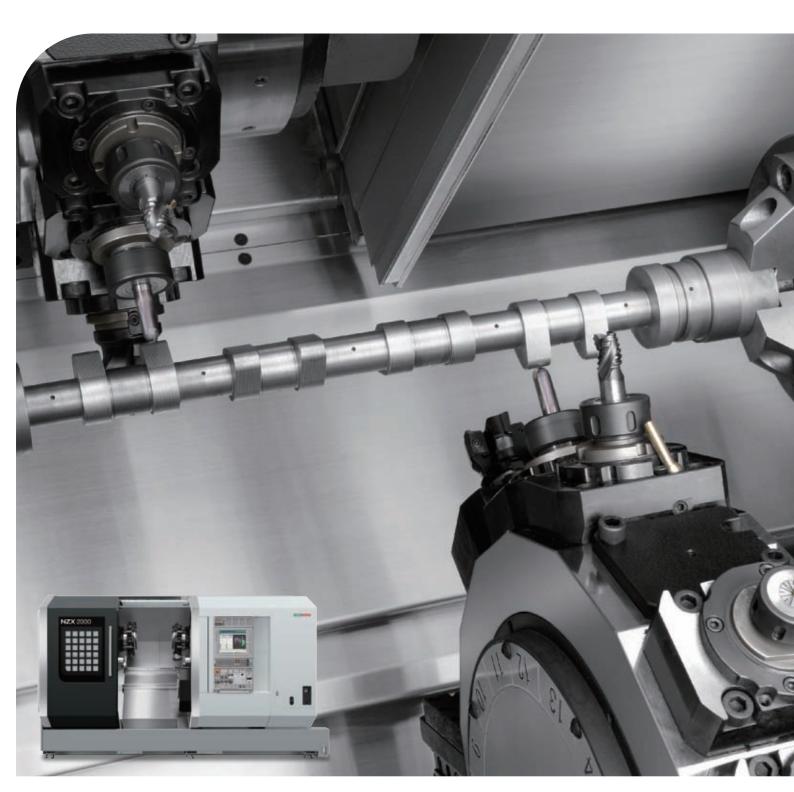
NZX1500

NZX2000



High-Precision, High-Efficiency Multi-Axis Turning Center

NZX1500 / NZX2000



Seeking the last word in mass production machines High-efficiency multi-axis turning center enabling the ultimate in process integration with up to three turrets

Is it possible to achieve more accurate, efficient machining and to improve productivity for complex-shaped workpieces? For this dilemma facing the manufacturing industry, DMG MORI SEIKI has one answer. That answer is the NZX1500/NZX2000. Up to 3 turrets and the Y-axis structure can be installed, and the BMT (Built-in Motor Turret) is used for all turrets. Also, DMG MORI SEIKI's original technology, the ORC (Octagonal Ram Construction) is used for the Turret 2 Y-axis structure, controlling thermal displacement and improving chip disposal. The NZX1500/NZX2000, which is packed with features to increase productivity, offers unparalleled efficiency for bar work machining.

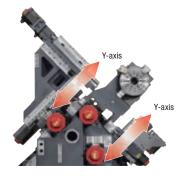


Main features

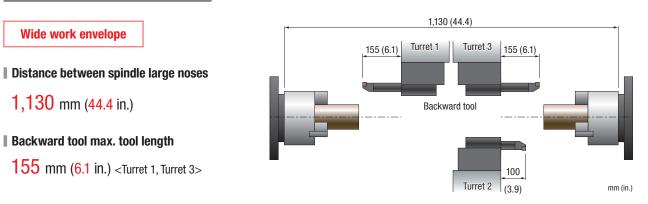
0 mm (8.3 in.) 0 mm (4.3 in.) -65, -45 mm (+2.6, -1.8 in.)> 0 mm (4.3 in.)	X1 Turret 1 C1 Y1	X3 Z3 Turret 3
0 mm (4.3 in.) -65, −45 mm (+2.6, −1.8 in.)>	Turret 1 C1	
-65, -45 mm (+2.6, -1.8 in.)>	C1 (Y1	Turret 3
<mark>0</mark> mm (<mark>4.3</mark> in.)		
-45, -65 mm (+1.8, -2.6 in.)>		C2 B
/2>	X2	Z2
0 mm (31.9 in.)	Y2	Turret 2
2/STY3>		
0 mm (11.8 in.) <+100 mm(+3.	9 in.)*>	
<mark>0</mark> mm (31.9 in.)		
	Rapid traverse rate	Photo: NZX2000/800STY3
0 mm (35.4 in.)	X1, X2, X3-axis	30 m/min (98.4 fpm)
'O mm (<mark>34.3</mark> in.)	Y1, Y2, Y3-axis	20 m/min (65.6 fpm)
	Z1, Z2, Z3-axis	50 m/min (164.1 fpm)
	 ^{2>} 0 mm (31.9 in.) ^{2/STY3>} 0 mm (11.8 in.) <+100 mm(+3. 0 mm (31.9 in.) 0 mm (35.4 in.) 0 mm (34.3 in.) 	2> 0 mm (31.9 in.) $2/STY3>$ 10 mm (11.8 in.) <+100 mm(+3.9 in.)*> 0 mm (31.9 in.) Rapid traverse rate 0 mm (35.4 in.) X1, X2, X3-axis 0 mm (34.3 in.) Y1, Y2, Y3-axis

Orthogonal Y-axis

In the NZX1500/NZX2000, all the Y axes are orthogonal. This allows high-efficiency machining because of its excellent straightness and high-speed feed. Also, its extremely rigid structure offers high-precision machining equal to or better than a machining center. As a multi-axis machine, it boasts outstanding milling ability surpassing the best multi-axis lathe.



Working area



Spindle			
	NZX1500	NZX2000	
Chuck size	6-inch	8-inch	
Bar work capacity	φ <mark>52</mark> mm (φ2.0 in.)	φ <mark>65</mark> mm (φ <mark>2.5</mark> in.)	
Max. spindle speed	6,000 min ⁻¹	<mark>5,000</mark> min¹	
Spindle drive motor	22/18.5 kW (30/24.7 HP) (25%ED/30 min./cont) 25/22 kW (33.3/30 HP) (40%ED/30 min./cont) OP	25/22 kW (33.3/30 HP) (30 min./cont)	

	NZX1500 NZX2000			
Chuck size	6-inch (Spindle 1) 6-inch (Spindle 2)		8-inch (Spindle 1)	8-inch (Spindle 2)
Spindle acceleration time	<mark>3.58</mark> sec.	3.65 sec.	3.26 sec.	<mark>3.18</mark> sec.
	(0→6,000 min ⁻¹)	(0→6,000 min ⁻¹)	(0→5,000 min ⁻¹)	(0→5,000 min ⁻ 1)
Spindle deceleration time	3.10 sec.	3.10 sec.	2.67 sec.	2.65 sec.
	(6,000→0 min ⁻¹)	(6,000→0 min ⁻¹)	(5,000→0 min ⁻¹)	(5,000→0 min⁻¹)

• Measurements are with a chuck fitted.

Bar work capacity \$\phi 80 mm (\$\phi 3.1 in) Specifications \$\box\$ Consultation is required \$\box\$ Consultation is required \$\box\$

	NZX2000
Chuck size	10-inch (Spindle 1)
Bar work capacity	φ <mark>80</mark> mm (φ <mark>3.1</mark> in.)
Max. spindle speed	4,000 min-1
Spindle drive motor	26/22 kW (34.7/30 HP) <30 min./cont>

• For T specifications: It is necessary to consider restrictions to make the tool tip go over the spindle center during I.D. boring with Turret 1 (upper left) on the Spindle 1 side. For boring with Turret 2 (lower), there is no restriction to be considered.

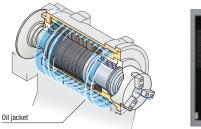




Spindle 1

Spindle lubrication

A structure that maintains a uniform temperature around the spindle, the largest source of heat, has been adopted. In addition, the oil jacket coiled around the spindle fully to the rear suppresses spindle temperature rise. opinaio





Oil cooler Temperature-controlled cooling oil is forcibly circulated into the spindle.

Main features

Turret

3 Turrets

The NZX1500/NZX2000, which can be equipped with up to 3 turrets, can do a wide variety of machining on one machine. Since no setup change is required, the series has various advantages such as reducing work-in-process inventory and transfer costs, and eliminating accuracy deterioration between processes.

Turret 2 X-axis drive

Twin drive is used for Turret 2's X-axis drive to achieve high speed and low vibration. Also, since the twin drive offers stable operation even with a wide saddle, the Y-axis which uses ORC can be located at the center.

Max. number of tools (Turret 3×16 tools) 48 tools

May retery teal apindle apond	6,000 min ⁻¹
Max. rotary tool spindle speed	12,000 min ⁻¹ OP
Turret indexing time (1-station)	0.18 sec.
Rotary tool spindle output Largest in its class	7.5 kW/5.5 kW (10 HP/7.5 HP) <30 min./cont>
Rotary tool spindle acceleration time	0.09 sec. (0→6,000 min ⁻¹)
Rotary tool spindle deceleration time	0.09 sec. (6,000→0 min ⁻¹)

Quick-change type turret head <VDI> OP

Tool changing

A bolt clamp type turret that provides higher rigidity is adopted for turrets 1, 2 and 3. Quick change type turrets compatible with VDI tools are available as an option. (For tool holders, please use DMG MORI SEIKI specified products.)



The photo shows the bolt-tightened turret head

Turtleneck structure

By using an ORC (Octagonal Ram Construction) for Turret 2's Y-axis, we have been able to save space for the axis guides, eliminating chip accumulation. This structure offers excellent chip disposal.

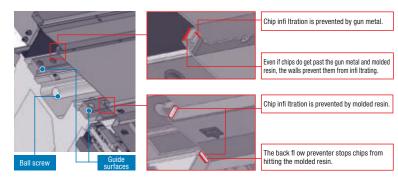




ret clamp structure

The labyrinth structure for the bed cover

By completely eliminating gaps in the cover, we have prevented chips from infi Itrating inside. This protects the guide surfaces and the ball screws from chips. (fewer gaps)



Built-in Motor Turret



The built-in structure, in which the motor is placed inside the turret, minimizes heat generation and vibration, improves transmission efficiency and significantly increases cutting power, speed and accuracy.

Vibration amplitude

·Controls the turret's heat and vibration

Compared with

conventional machine 1/3 or less

Turret temperature increases Compared with conventional machine 1/10 or less

Effects of the BMT

- Improved milling power
- Improved milling accuracy

Octagonal Ram Construction



Original technology

The 4 guideways are located diagonally from each other, so they distort symmetrically in response to the heat generated by high-speed travel. This means that the center stays in the same position, offering highspeed, high-precision feed.

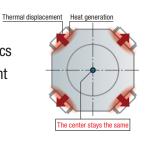


- Effects of ORC
- Superior damping characteristics

Reduced energy loss

- ·Controls thermal displacement
- ·Achieves high-speed, high-

precision feed



Lubricating oil Vibration Lubricating oil outflo Heat generated by friction The lubricating oil in the oil pockets which were

Square guides' excellent damping characteristics

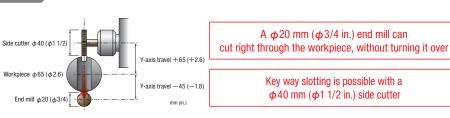
made by scraping is forced in and out through the gaps because of the contact pressure caused by vibration, generating heat Ш

Vibration is reduced by converting vibrational energy into heat energy. This helps control chattering caused by vibration.

Y-axis control



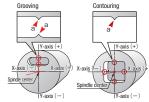




1. Side milling

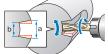
Comparison between polar coordinate interpolation and Y-axis control

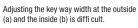
Until now, slotting and contouring were done on turning centers by using polar coodinate interpolation, but the cutting conditions at the intersection point (a) of the workpiece center line and the machining line changed when the direction of travel on the X-axis was reversed. This affected the geometric accuracy. With the Y-axis control, however, the cutting conditions do not change, offering high geometric precision.

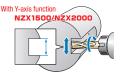


Key way milling using a turning center with the Y-axis function









The key way width can be adjusted with the Y-axis function.

Bar machining with Y-axis control





2. Off-center keyway milling

3 Off-center drilling

Main features

Center shutter specification

OP Consultation is required

Two setups can be performed separately in two independent work envelops, achieving greater productivity.



Highlights of the center shutter specification

- Two different machining processes can be performed simultaneously using both Spindle 1 and Spindle 2.
- While machining is performed with one spindle, setup work can be done with the other.

The photo shows the machine outfitted with options.

- The machine shown in the photo may differ from the actual machine.
- Machining on both sides of a workpiece is possible by transferring the workpiece from Spindle 1 to Spindle 2.
- Machining can be performed with one spindle while workpiece loading or unloading is being carried out with the other.

Variations

2-turret specifications

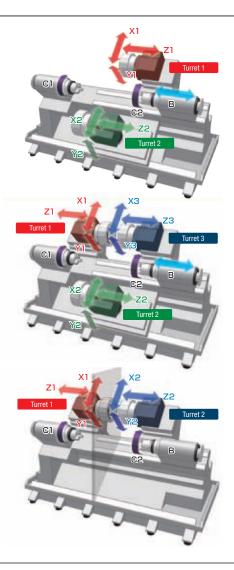
	Turret 1	Turret 2
NZX1500/800S NZX2000/800S	X1, Z1	X2, Z2
NZX1500/800SY NZX2000/800SY	X1, Z1, Y1	X2, Z2
NZX1500/8005Y2 NZX2000/8005Y2	X1, Z1, Y1	X2, Z2, Y2

3-turret specifications

	Turret 1	Turret 2	Turret 3
NZX1500/800ST NZX2000/800ST	X1, Z1	X2, Z2	X3, Z3
NZX1500/800STY2 NZX2000/800STY2	X1, Z1, Y1	X2, Z2, Y2	X3, Z3
NZX1500/800STY3 NZX2000/800STY3	X1, Z1, Y1	X2, Z2, Y2	X3, Z3, Y3

Center shutter specification

	Turret 1	Turret 2
NZX1500/800S DL NZX2000/800S DL	X1, Z1	X2, Z2
NZX1500/800SY2 DL NZX2000/800SY2 DL	X1, Z1, Y1	X2, Z2, Y2

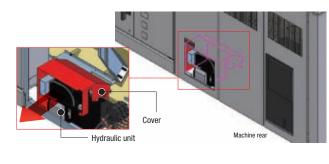




High-precision equipment

Heat-shielding layout

Covering the hydraulic unit prevents heat from being transmitted to the machine.



Direct scale feedback (X-axis, Z-axis)



The absolute magnetic linear scale (full closed-loop control) made by Magnescale is effective for high-precision positioning, and is available as an option.

- High accuracy, high resolution
- Greater accuracy than optical scale
 Highly resistant to condensation and oil
- Vibration and impact resistant characteristics

Resolution

Magnescale

Coolant cooling system (Separate type)

Raised coolant temperature causes thermal displacement in the fixtures and workpiece, affecting the machining accuracy of the workpiece. Use this unit to prevent the coolant from heating up. When using oil-based coolant, the coolant temperature can become extremely high even with the standard coolant pump, so please be sure to select this unit.

When using oil-based coolant, please be sure to consult with our sales representative.

• We cannot guarantee that this unit will completely control the coolant temperature It is designed to help prevent oil temperature increases.



Operability

Door opening width

The door opens wide, allowing easy workpiece loading and unloading and maintenance inside the machine.



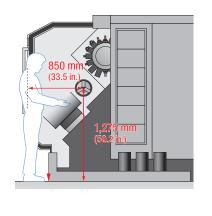
Swivel-type operation panel

The operation panel which swivels from 0 to 90 degrees improves visibility during operation.



Accessibility

To make operations inside the machine easier, the distance from the front of the machine to the spindle is shorter.



Maintenance

The coolant tank pulls out to the front

The coolant tank, which can be pulled out to the front of the machine, offers better chip disposal in the tank and easier maintenance for the chip conveyor (option).



• Photo: NZX2000/800STY3

Centralized layout of devices

Devices which require frequent inspection are placed on the right side of the machine, allowing faster maintenance and inspection.



Lubricating oil tank (for slideways)

The supply port for the lubricating oil tank for the slideways is located in the front of the machine for easy refi lling.



Improved reliability

We have reduced the number of parts in conventional turrets by 50%. The simple yet sturdy structure makes it more reliable.



Peripheral equipment

External chip conveyor

OP

	Workpiece material and chip size 🛛 : Suitable 🗙 : Not suitable							
Available Specifications	Steel			Cast iron Aluminum, non-fei		m, non-ferro	rous metal	
	Long	Short	Powdery	Short	Long	Short	Powdery	
Hinge type+Drum filter type	0	0	0	0	0	0	0	
Hinge type	0	×	×	×	0	×	×	
Scraper type	×	0	0	0	×	×	×	
Scraper type+Drum filter type Consultation is required	×	O*1	0	0	×	0	0	
Magnet scraper type Consultation is required	×	0	0	0	×	×	×	
Magnet scraper type+Drum filter type Consultation is required	×	0*1	0	0	×	0*2	O*2	

*1 Please use a steel filter

*2 Effective for ferrous alloys

Chip size guidelines

Short: chips shorter than 50 mm (2.0 in.), blocks of chips smaller than ϕ 40 mm (ϕ 1.6 in.) Long: bigger than the above.

Super-high pressure coolant system

Discharge volume L/min (gpm)

Discharge pressure

• The options table shows the general options when using coolant. If you are not using coolant, or if the coolant system and the machine are combined, changes may be necessary depending on the specifications required. • Please select a chip conveyor to suit the shape of your chips. When using special or difficult-to-cut material

- (chip hardness HRC45 or higher), please consult with our sales representative.
- We have prepared several options for different chip shapes and material. For details, please consult with our sales representative

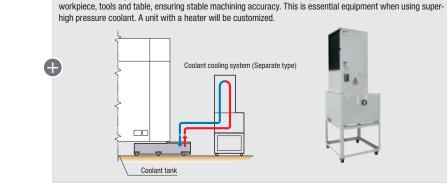
Super-high pressure coolant system (separate type)

This is effective for chip disposal, cooling the

Recommended equipment Coolant cooling system (Separate type)

machining point and extending tool life. The super-high pressure coolant unit generates a lot of heat because it discharges coolant at high pressure. The coolant cooling unit controls the temperature of the coolant and suppresses temperature increases in the

OP





OP

Manual type in-machine tool presetter (Spindle 1 side/Headstock 2 side)

7.0 (1,015)

20 (5.3)

25 (6.6)



MPa (psi)

50 Hz

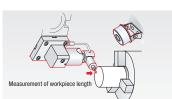
60 Hz



Headstock 2 side

In-machine workpiece measurement system





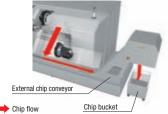
Collet chuck

Mist collector









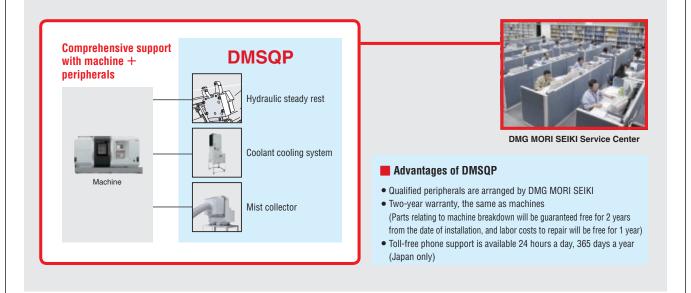
DMSQP (DMG Mori Seiki Qualified Products) or

Selected peripherals with superior quality, performance and maintainability.

The DMSQP program is designed to certify peripherals that meet DMG MORI SEIKI standards in quality, performance and maintainability. DMSQP provides customers with even greater peace of mind.

Comprehensive support with machine + peripherals

DMG MORI SEIKI provides comprehensive support, from proposal to delivery and maintenance, for high-quality peripherals that offer superior performance and maintainability.



Examples of qualified products (NZX1500/NZX2000)

Hydraulic steady rest

This supports a shaft-like workpiece during machining, and minimizes run-out caused by rotation.

☐ High-pressure coolant system <1.5 MPa (217.5 psi)>

Super-high-pressure coolant system (separate type) <7.0 MPa (1,015 psi)>

This improves chip disposal capability and contributes to machining of difficult-to-cut material by minimizing heat generation at the tool tip.

Coolant cooling system (separate type)

It cools down coolant to offer better cutting performance and minimize thermal displacement in the workpiece.

Mist collector

It removes mist, smoke, etc. generated inside the machine.

Chip bucket

Chips discharged from the chip conveyor are collected into this bucket.

Refrigerating type air dryer

This unit removes moisture contained in the compressed air supplied by the compressor, preventing moisture-related problems in the pneumatic equipment.

Tool cabinet

MAPPS IV



A New High-Performance Operating System for Multi-axis Turning Centers

> A new high-performance operating system that pursues ease of use, and combines the best hardware in the industry with the advanced application/network systems.

- Outstanding operability thanks to upgraded hardware
- Enhanced functionality by using CAM software
- New functions for easier setup and maintenance
- Various types of monitoring, including internal monitoring, are possible on the screen (option)
- In the event of trouble, DMG MORI SEIKI's remote maintenance service solves it smoothly MORI-NET Global Edition Advance OP

Outstanding operability

Vertical soft-keys

Vertical soft-keys are arranged on the left and right sides of the screen. The vertical soft-keys can be used as option buttons or shortcut keys to which you can assign your desired screens and functions, allowing you to quickly display the screen you want.

Keyboard

A PC-type keyboard is used as standard, making key input easy. A keyboard with a conventional key layout is also available as an option.

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Functions for multi-axis machining

3D interference checking function

Interference between items such as the spindle, workpiece, soft jaw, tool, holder and turret can be checked in 3D. If interference is detected, the machine will stop operation regardless of whether it is in the automatic or manual mode, providing the highest level of protection against interference.





program operation but also during setup.

- The 3D interference checking function will check for interference accurately as long as the 3D model exactly matches the actual configuration of the spindles, workpieces, soft jaws, tools, holders and turrets.
- Customized design is required for special shape. For details, please refer to the description of "3D interference checking function" in the NC control unit specifications
- A cutting simulation that shows how material is removed as machining proceeds cannot be carried out during a 3D interference check

Improved ease of maintenance

Alarm help function

When an alarm occurs, MAPPS identifies the cause of the trouble and provides solutions.





MAPPS: Mori Advanced Programming Production System

Improved ease of setup

File display and Memo function

Data necessary for setups such as operating instructions, drawing data and text data can be viewed on MAPPS. Text data is editable.



Viewable file types

- PDF · TXT (Editable)
- · Any file that can be displayed with Internet Explorer is available

Improved work efficiency

Fixed-point in-machine camera OP Consultation is required

Images taken by cameras installed inside/outside the machine can be viewed on the programming screen. This function is useful for maintenance.



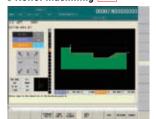
- **Examples of camera** locations
- · Inside machine (to check machining)
- Tool magazine (to check cutting tools)
- · Chip bucket (to check chip accumulation)

Conversational automatic programming

This function allows users to create programs simply by following the guidance on the screen. Much of the programming process has been simplified due to the minimal key entry required for even the most complex shapes.



Relief machining OP



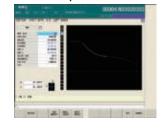
List display function



DXF import function OP



Contour input



Simple soft jaw forming function



MORI Automatic Programming System for NZ/ZT MURI-APNZ/ZT 👓

Application systems which let you create machining programs easily on your PC.

· Easy operation, simply by entering the product shapes while following the instructions on the screen.

• Its functions, data and operability



are fully compatible with the conversational programming system of the MAPPS IV operating systems

CAM software

ESPRIT® allows you to create complex 3D programming with high-added value. By just installing the software on your PC with connection to LAN, you will be able to use it. (Once the software is started on the computer, it can be used for up to 7 days without LAN connection)





Remote Desktop <Patent pending>

ESPRIT[®] installed on your PC can be operated from your machine via LAN. (It cannot be simultaneously started up on more than one PC)



Machine

- Postprocessor as standard
- · CAM software will be ready to use once your machine is installed
- Cost for introducing CAM software can be saved
- ESPRIT[®] data can be modified on the machine (through Remote Desktop connection*)
- The software can be installed on multiple PCs on the network (It cannot be simultaneously started up on more than one PC)
- 2-year warranty support (including free update)

License borrowing system

By borrowing the ESPRIT® license from the machine over LAN, ESPRIT® can be run on the PC up to 7 days without LAN connection (or turning on the machine).





Distributors/Trading companies, DMG MORI SEIKI

Technical Centers and ESPRIT® Support Team will

Support system

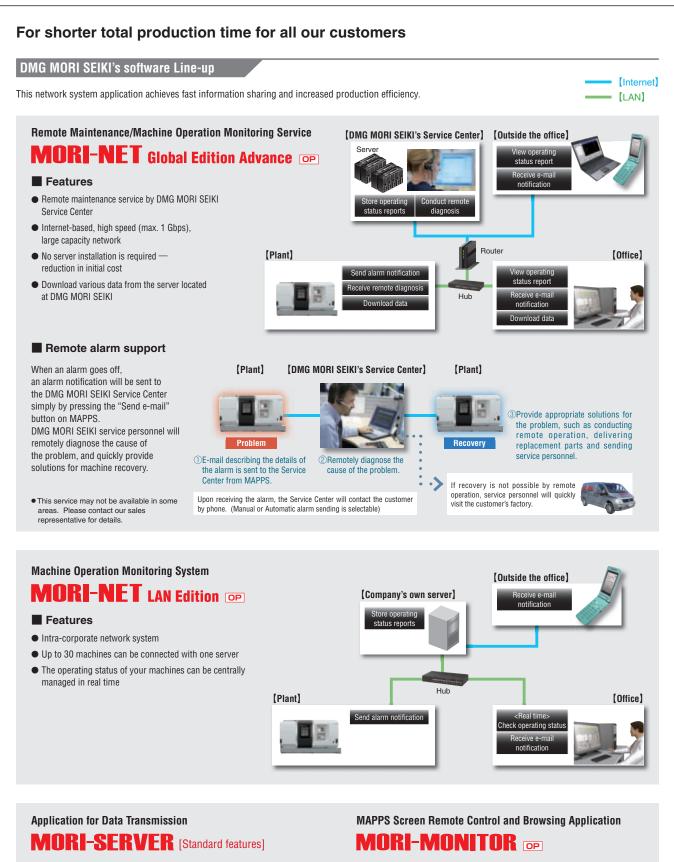
* Applicable Operating Systems: Windows[®] Vista Business/Ultimate, Windows[®] 7 Professional/Ultimate • A PC is required to use ESPRIT[®]. Please prepare PCs by yourself.

• The photo shown may differ from actual machine.

nation about the screen is current as of March 2013.

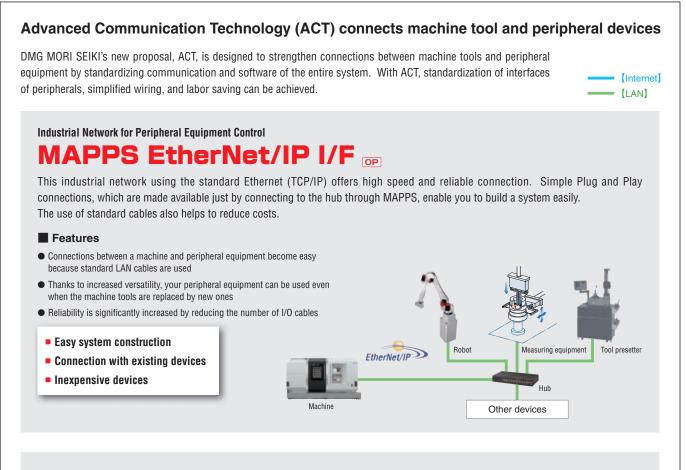
MAPPS IV

Network Application Systems MORI-NETWORK MORI-NET, MORI-SERVER, MORI-MONITOR



This enables high-speed transfer of programming data between your office computer and machine, reducing the lead time of pre-machining processes. This is an application which allows you to remotely operate and view the MAPPS screens from your office computer.

Advanced Communication Technology



Communication Interface for Monitoring Machine Operation

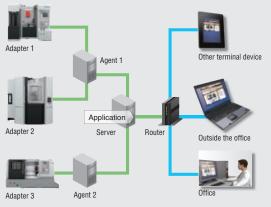
MAPPS MTConnect I/F

MTConnect, which was introduced by the Association for Manufacturing Technology (AMT) in 2008, is a new XML (Extensible Markup Language) based communication protocol that offers an open interface. This interface allows you to build a system to monitor the operating status of your machines.

Features

- Open communication interface allows you to access to your company's system
- This makes it possible for you to build a system to monitor the operating status of your machines via the Internet

System examples



Application examples

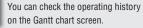




Your machines are displayed all at once, allowing you to quickly call up the machine you wish to check.

Operating status can be checked in real time.

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A server and application must be prepared by the customer.
For introduction of MTConnect, separate consultation is required.

Reduction in environmental burden

To conserve limited resources and protect global environment. The NZX1500/NZX2000 pursues a high "environmental performance" that is required of machine tools.



Power-saving	function
---------------------	----------

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	-	-		
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Automatic machine light function

If the operation panel is not touched for a certain amount of time, the interior light automatically turns off. This saves energy and lengthens the life of the machine lights.

Function to reduce power consumption during standby

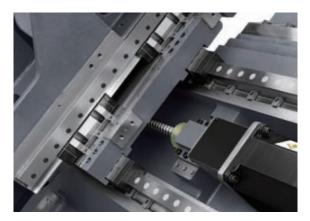
The inverter type hydraulic unit reduces power consumption during standby.

Automatic sleep function

If the keyboard is not touched for a certain amount of time and NC operation is not being performed, power is cut to the servo motor, the spindle, the coolant pump and the chip conveyor, thereby saving energy.

Reduced consumption of lubricating oil

The amount of lubricating oil required for the slideways has been reduced, contributing to energy savings.



Machine specifications

	Item		NZX1500/800S	NZX1500/BOOSY	NZX1500/800SY2		
	Swing over bed	mm (in.)		800 (31.5)			
	Swing over cross slide	mm (in.)	800 (31.5)				
Capacity	Max. distance between spindle large noses	mm (in.)	1,130 (44.4)				
	Max. turning diameter	mm (in.)	320 (12.5) <interference cover="" the="" with=""></interference>				
	Standard turning diameter	mm (in.)	200 (7.9)				
	Max. workpiece delivery diameter	mm (in.)	300 (11.8)				
	Max. turning length	mm (in.)	810 (31.8) < Max, length workpiece	which can be machined using O.D. tool (with th	e workpiece supported at both ends)>		
	Bar work capacity	mm (in.)		52 (2.0)	· · · · · · · · · · · · · · · · · · ·		
	X-axis travel	mm (in.)		X1, X2: 210 (8.3)			
	Y-axis travel	mm (in.)	_	Y1: 110 (4.3) <+65 (2.6), -45 (1.8)>	Y1: 110 (4.3) <+65 (2.6), -45 (1.8) Y2: 110 (4.3) <+45 (1.8), -65 (2.6)		
ravel	7 ovio trovol	mm (in)		71 70, 910 (01.0)	12. 110 (4.3) < 145 (1.6), -05 (2.0)		
	Z-axis travel	mm (in.)	Z1, Z2: 810 (31.9)				
	B-axis travel (Spindle 2)	mm (in.)		900 (35.4)			
	Max. spindle speed	min-1		6,000			
	Number of spindle speed ranges	Stage	2				
indle 1	Spindle nose		JIS A₂-5				
	Through-spindle hole diameter	mm (in.)		61 (2.4)			
	Spindle bearing inner diameter	mm (in.)		100 (3.9)			
	Min. spindle indexing increment			0.001°			
	Max. spindle speed	min-1		6,000			
	Number of spindle speed ranges	Stage		2			
	Spindle nose		 JIS A2-5				
pindle 2	Through-spindle hole diameter	mm (in.)		61 (2.4)			
	Spindle bearing inner diameter	mm (in.)		100 (3.9)			
	Min. spindle indexing increment			0.001°			
	Turret type			N			
			16-station×2				
	Number of tool stations		16×2=32				
	Shank height for square tool	mm (in.)	20 (0.8)				
urret	Height of boring bar shank part	mm (in.)	32 (1.3)				
	Turret indexing time (1-station)	SEC.	0.18				
	Max. rotary tool spindle speed	min-1	6,000 [12,000]				
	Rotary tool machining ability	mm (in.)		Tap: M16, Drill: ϕ 16 (ϕ 0.6)			
eedrate	Rapid traverse rate	mm/min (ipm)	X1, X2: 30,000 (1,181.1) Z1, Z2: 50,000 (1,968.5)	X1, X2: 30,000 (1,181.1) Y1: 20,000 (787.4) Z1, Z2: 50,000 (1,968.5)	X1, X2: 30,000 (1,181.1) Y1, Y2: 20,000 (787.4) Z1, Z2: 50,000 (1,968.5)		
	Jog feedrate	mm/min (ipm)	0-5,000 (196.9)				
	Spindle 1 drive motor	kW (HP)	22/18.5 (30/24.7) <25%ED/30 min./cont> [25/22 (33.3/30) <40%ED/30 min./cont> <high output="">]</high>				
	Spindle 2 drive motor	kW (HP)	22/18.5 (30/24.7) <25%ED/30 min./cont> [25/22 (33.3/30) <40%ED/30 min./cont> <high output="">]</high>				
	Rotary tool spindle drive motor <30 min./cont>	kW (HP)		7.5/5.5 (10/7.5)			
Motors	Feed motor	kW (HP)	X1: 3.0 (4.0) X2: 1.2 (1.6)×2 Z1, Z2: 4.0 (5.3)	X1: 3.0 (4.0), X2: 1.2 (1.6)×2 Y1: 4.0 (5.3) Z1, Z2: 4.0 (5.3)	X1: 3.0 (4.0), X2: 2.5 (3.3)×2 Y1: 4.0 (5.3), Y2: 2.5 (3.3) Z1, Z2: 4.0 (5.3)		
	Hydraulic pump motor	kW (HP)		1.5 (2.0) or equivalent	1		
	Lubricanting oil pump motor	kW (HP)		0.017 (0.02)			
	Coolant pump motor	kW (HP)		0.325/0.520 (0.43/0.69)			
	Cooling oil motor <50/60 Hz>	kW (HP)	4.2/4.7 (5.6/6.2)				
	Electrical power supply <cont></cont>	194103A09 KVA	73.5	77.0	81.4		
wer sources tandard)			13.3		01.4		
	Compressed air supply	MPa, L/min (psi/gpm)	0.5, 200 (72.5, 52.8) <anr></anr>				
	Hydraulic oil tank capacity	L (gal.)	10 (2.6)				
ink capacity	Lubricanting oil tank capacity	L (gal.)	4.2 (1.1)				
	Coolant tank capacity	L (gal.)	400 (105.6)				
	Oil cooler tank capacity	L (gal.)		52 (13.7)			
	Machine height <from floor=""></from>	mm (in.)		2,320 (91.3) <without automatic="" door=""></without>			
Machine size Floor space <width depth="" ×=""> mm (in.) 3,930 (154.7) <machine: (144.9)+tank:="" (9.8)="" 250="" 3,680=""> [chip conveyord c</machine:></width>		4.9)+Tank: 250 (9.8)> [chip conveyor right dis	sposal: +1,190 (46.9)]×2,740 (107.9)				

] Option ſ

[] Option
Bar work capacity: Depending on the chuck cylinder used and its restrictions, it may not be possible to reach full bar work capacity.
Max. spindle speed: Depending on restrictions imposed by the workpiece clamping device, fixture and tool used, it may not be possible to rotate at the maximum spindle speed.
ANR: Refers to a standard atmospheric state; i. e., temperature at 20°C (68°F); absolute pressure at 101.3 kPa (14.7 psi); and relative humidity at 65%.
Power sources, Machine size: The actual values may differ from those specified in the catalogue, depending on the optional features and peripheral equipment.
Compressed air supply: Please be sure to supply clean compressed air <air pressure: 0.7 MPa (101.5 psi), pressure dew point: 10°C (50°F) or below>.
A criterion capacity to select a compressor is 90 L/min (23.8 gpm) per 0.75 kW (1 HP). However, this figure may differ depending on the type of compressors and options attached. For details, please check the compressor specifications.
When the tool tip air blow is regularly used, air supply of more than 300 L/min (79.2 gpm) is separately required.
The information in this catalog is valid as of March 2013.
(IIS: Jananese Industrial Standard

NZX1500_2000 (120302)

JIS: Japanese Industrial Standard

Machine specifications

	Itom		NZX1500/800ST	NZX1500/800STY2	NZX1500/800STY3		
	Swing over bed	mm (in.)		800 (31.5)			
	Swing over cross slide	mm (in.)	800 (31.5)				
	Max. distance between spindle large noses	mm (in.)	1,130 (44.4)				
	Max. turning diameter	mm (in.)		320 (12.5) < Interference with the cover>			
Capacity	Standard turning diameter	mm (in.)	200 (7.9)				
	Max. workpiece delivery diameter	mm (in.)	300 (11.8)				
	Max. turning length	mm (in.)	810 (31.8) <max. (with="" 0.d.="" 2="" at="" be="" both="" can="" ends):<="" length="" machined="" on="" supported="" td="" the="" tool="" turret="" using="" which="" workpiece=""></max.>				
		mm (in.)	52 (2.0)				
	Bar work capacity						
Travel	X-axis travel	mm (in.)		X1, X2, X3: 210 (8.3)			
	Y-axis travel	mm (in.)	-	Y1: 110 (4.3) <+65 (2.6), -45 (1.8)> Y2: 110 (4.3) <+45 (1.8), -65 (2.6)>	Y1, Y3: 110 (4.3) <+65 (2.6), -45 (1.8)> Y2: 110 (4.3) <+45 (1.8), -65 (2.6)>		
	Z-axis travel	mm (in.)	Z1, Z3: 300 (11.8) <+100*(3.9)>, Z2: 810 (31.9)				
	B-axis travel (Spindle 2)	mm (in.)	900 (35.4)				
	Max. spindle speed	min-1		6,000			
	Number of spindle speed ranges	Stage	2				
	Spindle nose			JIS A2-5			
Spindle 1	Through-spindle hole diameter	mm (in.)		61 (2.4)			
	Spindle bearing inner diameter	mm (in.)		100 (3.9)			
	Min. spindle indexing increment			0.001°			
	Max. spindle speed	min-1		6,000			
	Number of spindle speed ranges	Stage					
		Jiage	2				
Spindle 2	Spindle nose		JIS A2-5				
	Through-spindle hole diameter	mm (in.)		61 (2.4)			
	Spindle bearing inner diameter	mm (in.)	100 (3.9)				
	Min. spindle indexing increment			0.001°			
	Turret type		16-station×3				
	Number of tool stations		16×3=48				
	Shank height for square tool	mm (in.)	20 (0.8)				
Turret	Height of boring bar shank part	mm (in.)	32 (1.3)				
	Turret indexing time (1-station)	SEC.	0.18				
	Max. rotary tool spindle speed	min-1	6,000 [12,000]				
	Rotary tool machining ability	mm (in.)		Tap: M16, Drill: φ16 (φ0.6)			
Feedrate	Rapid traverse rate	mm/min (ipm)	X1, X2, X3: 30,000 (1,181.1) Z1, Z2, Z3: 50,000 (1,968.5)	X1, X2, X3: 30,000 (1,181.1) Y1, Y2: 20,000 (787.4) Z1, Z2, Z3: 50,000 (1,968.5)	X1, X2, X3: 30,000 (1,181.1) Y1, Y2, Y3: 20,000 (787.4) Z1, Z2, Z3: 50,000 (1,968.5)		
	Jog feedrate	mm/min (ipm)		0-5,000 (196.9)			
	Spindle 1 drive motor	kW (HP)	22/18.5 (30/24.7) <25% ED/30 min./cont> [25/22 (33.3/30) <40% ED/30 min./cont> <high output="">]</high>				
	Spindle 2 drive motor	kW (HP)	22/18.5 (30/24.7) <25% ED/30 min./cont> [25/22 (33.3/30) <40% ED/30 min./cont> <high output="">]</high>				
	Rotary tool spindle drive motor <30 min./cont>	kW (HP)	7.5/5.5 (10/7.5)				
Motors	Feed motor	kW (HP)	X1, X3: 3.0 (4.0) X2: 1.2 (1.6)×2 Z1, Z2, Z3: 4.0 (5.3)	X1, X3: 3.0 (4.0), X2: 1.2 (1.6)×2 Y1: 4.0 (5.3), Y2: 2.5 (3.3) Z1, Z2, Z3: 4.0 (5.3)	X1, X3: 3.0 (4.0), X2: 1.2 (1.6)×2 Y1, Y3: 4.0 (5.3), Y2: 2.5 (3.3) Z1, Z2, Z3: 4.0 (5.3)		
	Hydraulic pump motor	kW (HP)	1.5 (2.0) or equivalent				
	Lubricanting oil pump motor	kW (HP)		0.017 (0.02)			
	Coolant pump motor	kW (HP)	0.325/0.520 (0.43/0.69)				
	Cooling oil motor <50/60 Hz>	kW (HP)	4.2/4.7 (5.6/6.2)				
Power sources	Electrical power supply <cont></cont>	194103A09 KVA	80.3	84.7	88.1		
(Standard)	Compressed air supply	MPa, L/min (psi/gpm)	60.0	0.5, 200 (72.5, 52.8) <anr></anr>	50.1		
(standuru)	Hydraulic oil tank capacity						
		L (gal.)		10 (2.6)			
Tank capacity	Lubricanting oil tank capacity	L (gal.)					
	Coolant tank capacity	L (gal.)					
	Oil cooler tank capacity	L (gal.)		52 (13.7)			
	Machine height <from floor=""></from>	mm (in.)		2,320 (91.3) <without automatic="" door=""></without>			
Machine size Floor space <width×depth> mm (in.) 3,930 (154.7) <machine: (144.9)+<="" 3,680="" th=""></machine:></width×depth>							
Machine size	Floor space <width×depth></width×depth>	mm (in.)	3,930 (154.7) <machine: (14<="" 3,680="" td=""><td>4.9)+tank: 250 (9.8)> [chip conveyor right dis</td><td>sposal: +1,190 (46.9)]×2,740 (107.9)</td></machine:>	4.9)+tank: 250 (9.8)> [chip conveyor right dis	sposal: +1,190 (46.9)]×2,740 (107.9)		

] Option
Bar work capacity: Depending on the chuck cylinder used and its restrictions, it may not be possible to reach full bar work capacity.
Max. spindle speed: Depending on restrictions imposed by the workpiece clamping device, fixture and tool used, it may not be possible to rotate at the maximum spindle speed.
ANR: Refers to a standard atmospheric state; i. e., temperature at 20°C (68°F); absolute pressure at 101.3 kPa (14.7 psi); and relative humidity at 65%.
Power sources, Machine size: The actual values may differ from those specified in the catalogue, depending on the optional features and peripheral equipment.
Compressed air supply: Please be sure to supply clean compressed air <a pressure: 0.7 MPa (101.5 psi), pressure dew point: 10°C (50°F) or belows.
A criterion capacity to select a compressor specifications.
When the tool tin air blow is regularized used on the maximum attached. For details, please check the compressor specifications.

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When the tool tip air blow is regularly used, air supply of more than 300 L/min (79.2 gpm) is separately required.
 When one turret is moving in the plus direction, another turret moves in the minus direction.

The information in this catalog is valid as of March 2013.
JIS: Japanese Industrial Standard

	Item		NZX2000/800S	NZX2000/800SY	NZX2000/8005Y2		
	Swing over bed	mm (in.)		800 (31.5)			
	Swing over cross slide	mm (in.)	800 (31.5)				
Capacity	Max. distance between spindle large noses	mm (in.)	1,130 (44.4)				
	Max. turning diameter	mm (in.)	320 (12.5) <interference cover="" the="" with=""></interference>				
	Standard turning diameter	mm (in.)	200 (7.9)				
	Max. workpiece delivery diameter	mm (in.)		300 (11.8)			
	Max. turning length	mm (in.)	810 (31.8) < Max length workpiece	which can be machined using 0.D. tool (with th	e workniece supported at both ends)>		
	Bar work capacity	mm (in.)	65 (2.5)				
	X-axis travel	mm (in.)	X1, X2: 210 (8.3)				
Travel	Y-axis travel	mm (in.)	_	Y1: 110 (4.3) <+65 (2.6), -45 (1.8)>	Y1: 110 (4.3) <+65 (2.6), -45 (1.8)>		
	Z-axis travel	mm (in)		71, 70, 910 (21.0)	Y2: 110 (4.3) <+45 (1.8), -65 (2.6)>		
		mm (in.)	Z1, Z2: 810 (31.9)				
	B-axis travel (Spindle 2)	mm (in.)		870 (34.3)			
	Max. spindle speed	min-1		5,000			
	Number of spindle speed ranges	Stage	2				
pindle 1	Spindle nose			JIS A2-6			
	Through-spindle hole diameter	mm (in.)	73 (2.9)				
	Spindle bearing inner diameter	mm (in.)		120 (4.7)			
	Min. spindle indexing increment			0.001°			
	Max. spindle speed	min-1		5,000			
	Number of spindle speed ranges	Stage	2				
	Spindle nose		JIS A2-6				
pindle 2	Through-spindle hole diameter	mm (in.)	73 (2.9)				
	Spindle bearing inner diameter	mm (in.)		120 (4.7)			
	Min. spindle indexing increment			0.001°			
	Turret type		16-station×2				
	Number of tool stations		16×2=32				
	Shank height for square tool	mm (in.)	20 (0.8)				
urret	Height of boring bar shank part	mm (in.)	32 (1.3)				
	Turret indexing time (1-station)	Sec.	0.18				
	Max. rotary tool spindle speed	min-1	6,000 [12,000]				
	Rotary tool machining ability	mm (in.)		Tap: M16, Drill: φ16 (φ0.6)			
eedrate	Rapid traverse rate	mm/min (ipm)	X1, X2: 30,000 (1,181.1) Z1, Z2: 50,000 (1,968.5)	X1, X2: 30,000 (1,181.1) Y1: 20,000 (787.4) Z1, Z2: 50,000 (1,968.5)	X1, X2: 30,000 (1,181.1) Y1, Y2: 20,000 (787.4) Z1, Z2: 50,000 (1,968.5)		
	Jog feedrate	mm/min (ipm)		0-5,000 (196.9)			
	Spindle 1 drive motor <30 min./cont>	kW (HP)	25/22 (33.3/30) [25/22 (33.3/30) <high-torque>]</high-torque>				
	Spindle 2 drive motor <30 min./cont>	kW (HP)	2	5/22 (33.3/30) [25/22 (33.3/30) <high-torqu< td=""><td>e>]</td></high-torqu<>	e>]		
	Rotary tool spindle drive motor <30 min./cont>	kW (HP)		7.5/5.5 (10/7.5)			
Motors	Feed motor	kW (HP)	X1: 3.0 (4.0) X2: 1.2 (1.6)×2 Z1, Z2: 4.0 (5.3)	X1: 3.0 (4.0), X2: 1.2 (1.6)×2 Y1: 4.0 (5.3) Z1, Z2: 4.0 (5.3)	X1: 3.0 (4.0) X2: 2.5 (3.3)×2 Y1: 4.0 (5.3), Y2: 2.5 (3.3) Z1, Z2: 4.0 (5.3)		
	Hydraulic pump motor	kW (HP)		1.5 (2.0) or equivalent			
	Lubricanting oil pump motor	kW (HP)	0.017 (0.02)				
	Coolant pump motor	kW (HP)	0.325/0.520 (0.43/0.69)				
	Cooling oil motor <50/60 Hz>	kW (HP)	4.2/4.7 (5.6/6.2)				
ower sources	Electrical power supply <cont></cont>	194104A06 KVA	81.6	85.0	89.4		
Standard)	Compressed air supply	MPa, L/min (psi/gpm)		0.5, 200 (72.5, 52.8) <anr></anr>	1		
	Hydraulic oil tank capacity	L (gal.)	10 (2.6)				
	Lubricanting oil tank capacity	L (gal.)	4.2 (1.1)				
ank capacity	Coolant tank capacity	L (gal.)	4.2 (1.1) 400 (105.6)				
	Oil cooler tank capacity	L (gal.)	400 (103.6) 52 (13.7)				
	Machine height <from floor=""></from>	mm (in.)					
lachine size	Floor space <width depth="" ×=""></width>	mm (in.)	2,320 (91.3) <without automatic="" door=""> 3,930 (154.7) <machine: (144.9)+tank:="" (9.8)="" 250="" 3,680=""> [chip conveyor right disposal: +1,190 (46.9)]×2,740 (107.9</machine:></without>				
Iddinine Size	Ize Floor space < wroun > beptn > imm (m.) 5,550 (194.7) < wrachine. 3,600 (144.9) + tank. 250 (9.6) > [chip conveyor right disposal Mass of machine kg (lb.) 8,200 (18,040) 8,300 (18,260)		8,500 (18,700)				
	mass of machine	ку (ш.)	0,200 (10,040)	0,300 (10,200)	0,000(10,700)		

] Option

Bar work capacity: Depending on the chuck cylinder used and its restrictions, it may not be possible to reach full bar work capacity.

Bar work capacity: Depending on the chuck cylinder used and its restrictions, it may not be possible to reach full bar work capacity.
Max. spindle speed: Depending on restrictions imposed by the workpiece clamping device, fixture and tool used, it may not be possible to rotate at the maximum spindle speed.
ANR:Refers to a standard atmospheric state; i. e., temperature at 20° C (86°F); absolute pressure at 101.3 kPa (14.7 psi); and relative humidity at 65%.
Power sources, Machine size: The actual values may differ from those specified in the catalogue, depending on the optional features and peripheral equipment.
Compressed air supply: Please be sure to supply clean compressed air <air pressure: 0.7 MPa (101.5 psi), pressure dew point: 10°C (50°F) or below>.
A criterion capacity to select a compressor is 90 L/min (23.8 gpm) per 0.75 kW (1 HP). However, this figure may differ depending on the type of compressors and options attached. For details, please check the compressor specifications.
When the tool tip air blow is regularly used, air supply of more than 300 L/min (79.2 gpm) is separately required.
The information in this catalog is valid as of March 2012.
US: Janases Industrial Standard

NZX1500_2000 (120302)

JIS: Japanese Industrial Standard

Machine specifications

	item		NZX2000/800ST	NZX2000/800STY2	NZX2000/800STY3	
	Swing over bed	mm (in.)		800 (31.5)		
	Swing over cross slide	mm (in.)	800 (31.5)			
	Max. distance between spindle large noses	mm (in.)	1,130 (44.4)			
	Max. turning diameter	mm (in.)	320 (12.5) <interference cover="" the="" with=""></interference>			
Capacity	Standard turning diameter	mm (in.)	200 (7.9)			
	Max. workpiece delivery diameter	mm (in.)		300 (11.8)		
	Max. turning length	mm (in.)	810 (31.8) (Max, length workpiece which o	can be machined using O.D. tool on Turret 2 <w< td=""><td>vith the workpiece supported at both ends>)</td></w<>	vith the workpiece supported at both ends>)	
	Bar work capacity	mm (in.)	65 (2.5)			
	X-axis travel	mm (in.)		X1, X2, X3: 210 (8.3)		
				Y1: 110 (4.3) <+65 (2.6), -45 (1.8)>	V1 V2: 110 (4 2) - 1 C5 (2 C) 45 (1 0)	
Travel	Y-axis travel	mm (in.)	—	Y2: 110 (4.3) $<+45$ (2.0), -45 (1.0)> Y2: 110 (4.3) $<+45$ (1.8), -65 (2.6)>	Y1, Y3: 110 (4.3) <+65 (2.6), -45 (1.8)> Y2: 110 (4.3) <+45 (1.8), -65 (2.6)>	
	Z-axis travel	mm (in.)		Z1, Z3: 300 (11.8) <+100*(3.9)>, Z2: 810 (31.4)	9)	
	B-axis travel (Spindle 2)	mm (in.)	870 (34.3)			
	Max. spindle speed	min-1		5,000		
	Number of spindle speed ranges	Stage	2			
	Spindle nose			JIS A2-6		
Spindle 1	Through-spindle hole diameter	mm (in.)	73 (2.9)			
	Spindle bearing inner diameter	mm (in.)		120 (4.7)		
	Min. spindle indexing increment	. ,		0.001°		
	Max. spindle speed	min-1		5,000		
	Number of spindle speed ranges	Stage		2		
	Spindle nose	otage	2 JIS A2-6			
Spindle 2	Through-spindle hole diameter	mm (in.)		73 (2.9)		
	Spindle bearing inner diameter	mm (in.)		120 (4.7)		
	Min. spindle indexing increment			0.001°		
	Turret type		16-station×3			
	Number of tool stations		16×3=48			
	Shank height for square tool	mm (in.)	20 (0.8)			
Furret	Height of boring bar shank part	mm (in.)	32 (1.3)			
	Turret indexing time (1-station)	SEC.	0.18			
	Max. rotary tool spindle speed	min-1	6,000 [12,000]			
	Rotary tool machining ability	mm (in.)	Tap: M16, Drill: φ16 (φ0.6)			
Feedrate	Rapid traverse rate	mm/min (ipm)	X1, X2, X3: 30,000 (1,181.1) Z1, Z2, Z3: 50,000 (1,968.5)	X1, X2, X3: 30,000 (1,181.1) Y1, Y2: 20,000 (787.4) Z1, Z2, Z3: 50,000 (1,968.5)	X1, X2, X3: 30,000 (1,181.1) Y1, Y2, Y3: 20,000 (787.4) Z1, Z2, Z3: 50,000 (1,968.5)	
	Jog feedrate	mm/min (ipm)		0-5,000 (196.9)		
	Spindle 1 drive motor <30 min./cont>	kW (HP)	25/22 (33.3/30) [25/22 (33.3/30) <high-torque>]</high-torque>			
	Spindle 2 drive motor <30 min./cont>	kW (HP)	25/22 (33.3/30) [25/22 (33.3/30) <high-torque>]</high-torque>			
	Rotary tool spindle drive motor <30 min./cont>	kW (HP)		7.5/5.5 (10/7.5)		
Motors	Feed motor	kW (HP)	X1, X3: 3.0 (4.0) X2: 1.2 (1.6)×2 Z1, Z2, Z3: 4.0 (5.3)	X1, X3: 3.0 (4.0), X2: 1.2 (1.6)×2 Y1: 4.0 (5.3), Y2: 2.5 (3.3) Z1, Z2, Z3: 4.0 (5.3)	X1, X3: 3.0 (4.0), X2: 1.2 (1.6) ×2 Y1, Y3: 4.0 (5.3), Y2: 2.5 (3.3) Z1, Z2, Z3: 4.0 (5.3)	
	Hydraulic pump motor	kW (HP)		1.5 (2.0) or equivalent		
	Lubricanting oil pump motor	kW (HP)		0.017 (0.02)		
	Coolant pump motor	kW (HP)	0.325/0.520 (0.43/0.69)			
	Cooling oil motor <50/60 Hz>	kW (HP)				
ower sources	Electrical power supply <cont></cont>	194104A06 KVA	88.3	92.7	96.1	
Standard)	Compressed air supply	MPa, L/min (psi/gpm)		0.5, 200 (72.5, 52.8) <anr></anr>	1	
	Hydraulic oil tank capacity	L (gal.)		10 (2.6)		
	Lubricanting oil tank capacity	L (gal.)		4.2 (1.1)		
ank capacity	Coolant tank capacity	L (gal.)				
	Oil cooler tank capacity	L (gal.)				
	Machine height <from floor=""></from>	mm (in.)		2,320 (91.3) <without automatic="" door=""></without>		
Maahina aiza		mm (in.)	2 020 (154 7) Machines 2 000 (14		nocal: ±1 100 (46 0)] > 0 740 (107 0)	
		4.9)+tank: 250 (9.8)> [chip conveyor right dis				
	Mass of machine	kg (lb.)	9,100 (20,020)	9,400 (20,680)	9,500 (20,900)	

] Option
Bar work capacity: Depending on the chuck cylinder used and its restrictions, it may not be possible to reach full bar work capacity.
Max. spindle speed: Depending on restrictions imposed by the workpiece clamping device, fixture and tool used, it may not be possible to rotate at the maximum spindle speed.
ANR: Refers to a standard atmospheric state; i. e., temperature at 20°C (68°F); absolute pressure at 101.3 kPa (14.7 psi); and relative humidity at 65%.
Power sources, Machine size: The actual values may differ from those specified in the catalogue, depending on the optional features and peripheral equipment.
Compressed air supply: Please be sure to supply clean compressed air <a pressure: 0.7 MPa (101.5 psi), pressure dew point: 10°C (50°F) or belows.
A criterion capacity to select a compressor specifications.
When the tool tin air blow is regularized used on the maximum attached. For details, please check the compressor specifications.

NZX1500_2000 (120302)

When the tool tip air blow is regularly used, air supply of more than 300 L/min (79.2 gpm) is separately required.
When one turret is moving in the plus direction, another turret moves in the minus direction.
The information in this catalog is valid as of March 2012.
JIS: Japanese Industrial Standard

DMG MORI

2-year warranty, twice the peace of mind.

For machines delivered outside of Japan, parts relating to machine breakdown will be guaranteed free for 2 years from the date of installation, and labor costs to repair will be free for 1 year. Please contact our sales representative for details.

Phone: +81-52-587-1811



<Precautions for Machine Relocation>

EXPORTATION: All contracts are subject to export permit by the Government of Japan. Customer shall comply with the laws and regulations of the exporting country governing the exportation or re-exportation of the Equipment, including but not limited to the Export Administration Regulations. The Equipment is subject to export restrictions imposed by Japan and other exporting countries and the Customer will not export or permit the export of the Equipment anywhere outside the exporting country without proper government authorization. To prevent the illegal diversion of the Equipment to individuals or nations that threaten international security, it may include a "Relocation Machine Security Function" that automatically disables the Equipment if it is moved following installation. If the Equipment is so-disabled, it can only be re-enabled by contacting DMG MORI SEIKI or its distributor representative. DMG MORI SEIKI and its distributor representative may refuse to re-enable the Equipment if it determines that doing so would be an unauthorized export of technology or otherwise violates applicable export restrictions. DMG MORI SEIKI and its distributor representative shall have no obligation to re-enable such Equipment. DMG MORI SEIKI and its distributor representative shall have no liability (including for lost profits or business interruption or under the limited service warranty included herein) as a result of the Equipment being disabled.

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If you have any questions regarding the content, contact our sales representative.

• The information in this catalog is valid as of October 2013. Designs and specifications are subject to changes without notice. • The machines shown in the catalog may differ from the actual machines. The location and the size of the nameplates may also differ from the actual machines, or the nameplates may not be attached to some machines.

• DMG MORI SEIKI is not responsible for differences between the information in the catalog and the actual machine.

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