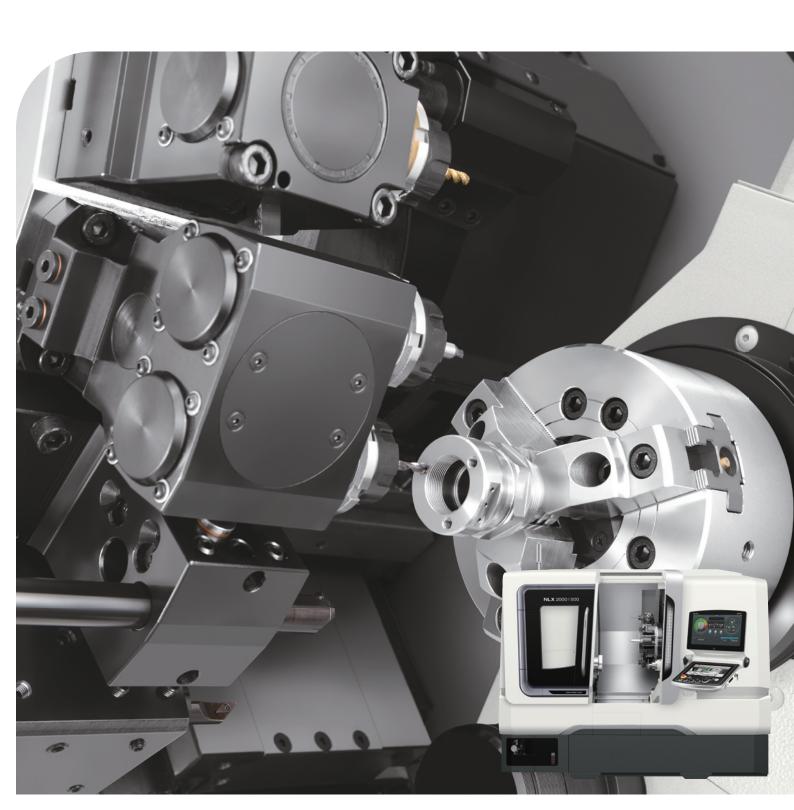


Rigid and Precise CNC Lathe

NLX 1500 NLX 2000

NLX 1500 / NLX 2000



Launch of New Models with DMG MORI's New Design for the NLX Series, the Pre-eminent Best-selling Series of CNC Lathes

Having achieved even higher levels of reliability and durability by adopting unique new DMG MORI technologies one after another while inheriting features like high-rigidity slideway guides from previous models, the NLX Series has now evolved a step further.

The machines incorporate the latest CELOS user interface that is equipped with an intuitive touch panel and comprises the ideal menu options for every process,

along with ergonomic new-design covers to cope flexibly with all conceivable machine operation scenarios.

This further refined NLX Series will spark innovations at all machining sites.



Main features

Basic structure



Slideways are used for all axes

NLX 1500 and NLX 2000 adopt slideways on all axes for improved damping characteristics and dynamic rigidity.

Travel

: 260 mm X-axis

(10.2 in.)

Z-axis : 590 mm

(23.2 in.)

Y-axis : 100 <±50> mm

 $(3.9 < \pm 2.0 > in.)$ <Y-type>

Tailstock: 564 mm

(22.2 in.)

■ Rapid traverse rate

X-axis : 30 m/min (1,181.1 ipm)

: 30 m/min (1,181.1 ipm) Z-axis

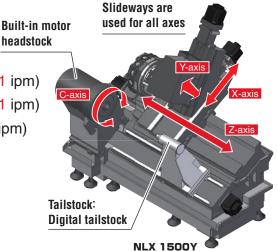
Y-axis : 10 m/min (393.7 ipm)

<Y-type>

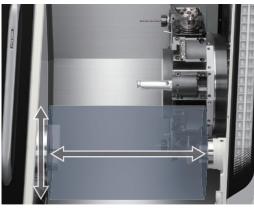
C-axis : 400 min⁻¹

Tailstock: 7/20 m/min

(275.6/787.4 ipm) <forward/retract>



Working area



A spacious work area with an overall compact machine size.

Max. turning diameter

386 mm (15.1 in.) **NLX 1500**

366 mm (14.4 in.) **NLX 2000**

Max. turning length

515 mm (20.2 in.) **NLX 1500**

510 mm (20.0 in.) **NLX 2000**

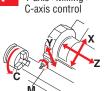
Variations

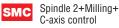


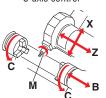
Milling+C-axis control



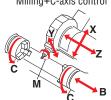
Y-axis+Milling+







Spindle 2+Y-axis+ Milling+C-axis control



NLX 1500

Distance between cer Standard chuck size <spindle 1/spindle 2> Bar work capacity Number of tool statio Travel <X-/Z-axis>

nters	<.500>
>	6 inches / 6 inches
	52 mm (2.0 in.)* [34 mm (1.3 in.) <8,000 min ⁻¹ >*]
ons	12 [16] [20] tools
	260/590 mm (10.2/23.2 in.)
	100 <±50> mm (3.9 <±2.0> in.)

Travel <Y-axis> [] Option

NLX 2000 MC Y SMC

Distance between centers	<.500.>
Standard chuck size <spindle 1="" 2="" spindle=""></spindle>	8 inches / 6 inches
Bar work capacity	65 mm (2.5 in.)*
Number of tool stations	12 [10] [16] [20] tools
Travel <x- z-axis=""></x->	260/590 mm (10.2/23.2 in.)
Travel <y-axis></y-axis>	100 <±50> mm (3.9 <±2.0> in.)

[] Option

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

Spindle 1





Sophisticated spindle labyrinth + Air purge for spindle

We have enhanced the labyrinth structure by taking the frequent use of high-pressure coolant into account. A spindle air purge is also equipped as standard to prevent coolant from infiltrating into the spindle, improving spindle durability.

Max. spindle speed

Standard chuck size

NLX 1500

6,000 min⁻¹

NLX 1500 6 inches

SMC SY

MC

NLX 2000

5,000 min⁻¹

NLX 2000 8 inches

Spindle 2



The SMC type that permits the entire sequence of machining from turning to secondary machining and back face machining with the combination of Spindle 2 and rotary tools, and the SY type that realizes multi-axis machining by adding the Y-axis are available.

Max. spindle speed

NLX 1500/NLX 2000

6,000 min⁻¹

Standard chuck size

NLX 1500/NLX 2000

6 inches

Tailstock



Digital tailstock installed

The high-rigidity digital tailstock driven by a servo motor significantly reduces setup time.



- Fewer steps requiring operation of the tailstock
- Operating time reduced
- Variable pressure control using program instructions
- Simple operation using MAPPS

Setup time

Reduced by over 50%

I Tailstock spindle operating time

Reduced by over 20

Chip flushing coolant



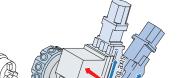
Chip flushing coolant is featured as standard at the base of the digital tailstock, improving chip processing capability.

Y-axis specifications

The Y-axis is created by linking the feed of the X-axis and the simulating axes. We have made the axis unit compact and restricted the height of the machine.

Y-axis travel

 ± 50 mm (± 2.0 in.)



Y

Main features

Turret



BMT (Built-in Motor Turret) installed in the turret

The turret with an optimum center of gravity location offers significantly improved tool tip rigidity.

| Max. rotary tool spindle speed

10,000 min⁻¹

Number of tool stations

NLX 1500

12 tools

16 tools op 20 tools op

NLX 2000

12 tools

10 tools op 16 tools op

20 tools op

■ Turret indexing time (1-station)

0.25 sec.

• Depending on the number and arrangement of tools, the turret indexing time may be longer.

I Overhang of O.D. cutting rotary tool

100 mm (3.9 in.) 🕞





'Mature" and "Evolved" BMT Technology



Original technology

- Improved milling power
- Improved milling accuracy
- Controls the turret's heat and vibration
- Reduced energy loss

■ Displacement amount

Previous model (5,000 min⁻¹) $3.05 \, \mu \text{m}$

NLX 2500 (10,000 min⁻¹) $0.43 \, \mu \text{m}$

I Turret temperature increases

Compared with conventional machine 1/10 or less



| Vibration amplitude

Compared with conventional machine 1/3 or less







Support for 20-station turret

OP

20-station turret specifications for long-term operation at night and complex machining

- With the 20-station turret you can machine a wide range of workpieces, including those for which automation used to be difficult because they require many processes.
- By using a high-rigidity, compact tooling system, we have achieved machining ability and versatility which matches those of machining centers.



High-precision, quick-change turret <Y, SY>

This is a turret with the high-rigidity, high-accuracy quick-change specifications conforming to the VDI tooling system. It reduces setup time by substantially shortening tool mounting time.

| Mounting repeatability

6 μm/200 mm (7.9 in.)





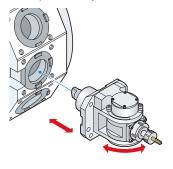
Rotary tool holders

OP

With conventional lathes, chattering occurred when the depth of cut was increased. The NLX Series, however, is equipped with rotary tool holders with improved rigidity, allowing deeper cutting than before.

Universal holder Consultation is required

This holder is suitable for inclined hole machining as it can adjust and set a tool to any required angle in advance. In the automatic operation mode machining can be performed right after turret indexing.



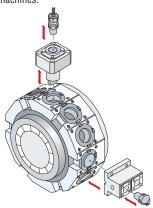
• Only suitable for the NL holder.



Inclined hole machining using a universal tool holder

| Capto-compatible holder

The Coromant Capto modular tooling system, with much faster toolchanging time than conventional machines.



High-speed rotary tool spindle

A DDS motor that has no gear belt is used for the rotary tool spindle, delivering high-speed, high-efficiency machining.

| Max. rotary tool spindle speed

NLX 1500/NLX 2000

10,000 min⁻¹

| Max. rotary tool spindle torque

NLX 1500/NLX 2000

29 N·m (21.4 ft·lbf) <3 min>

High-precision equipment

Thermal Displacement Control



Thorough Thermal Displacement Control

There are a variety of factors leading to the thermal displacement that has a major influence on machining accuracy, including heat generation and changes in room temperature while the machine is operating, and coolant temperature rise. These machines implement DMG MORI's original thermal displacement control where each of these factors is thoroughly addressed from all angles.

Coolant circulation for casting parts

DMG MORI has developed a new technology to circulate coolant through the casting parts as a measure against thermal displacement that directly affects machining accuracy. Thermal displacement is caused by various factors including non-uniform expansion and contraction due to difference in thickness of the casting; uneven heat generation in the slideways; operating environment; and changes in ambient temperature due to season and time of day. The coolant circulation maintains a uniform temperature inside the casting parts, and minimizes deformation in the machine.

- Uniform thermal displacement
- Resistance to changes in ambient temperature
- High-accuracy long-term machining



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.

 While this unit is not the only way to completely control the temperature of the coolant, it makes a major contribution to preventing increases in the oil temperature.





Direct scale feedback

OP

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



Resolution

 $0.01 \, \mu m$

Magnescale

High accuracy absolute scale

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



Uniform user interface with touch operation

From the idea to the finished product

Simplifies every process from the idea to the finished product to facilitate operations.

- ► A wide variety of pre-installed applications
- New operating comfort with touch monitors
- ▶ 21.5" and 15.6" dual wide monitor

CELOS STATUS MONITOR

CELOS with 21.5" ERGOline Touch

Here CELOS visualises the current condition of the machine regarding the process, provides important key figures about the current order and order progress and informs the operator with special icons and text messages about possible NC errors or imminent maintenance work

21.5"

ERGO*line®* control panel with multi-touch monitor



Infinitely variable adjustment of the screen and the keyboard

MULTI-TOUCH-CONTROL PANEL

The combination of advanced software and hardware enables excellent usability and distinctive functionality.



SMART*key*®

Customised user authorisation. Individually adapted access privileges to the control system and the machine. NEW // with internal USB memory

Keys for the selection of operating mode

Release button for machine functions in operating mode

COMPATIBLE

Compatible with PPS and ERP systems. Can be networked with CAD / CAM products. Open to trendsetting CELOS APP extensions.

UNIFORM

Uniform, intuitive user interface for all high-tech machines from DMG MORI.

CONSISTENT

Consistent administration, documentation and visualisation of order, process and machine data.

CELOS APPs simplify fast and easy operation

CELOS – APP MENU: Central access to all available applications.

CELOS supports the user in daily practice with a process-oriented menu structure. Thanks to the touch functionality of the user gets to the "APP MENU" with one single touch. Similar to a smart phone or tablet PC, the user has got direct access to all available APPs, which are differentiated according to their application field and can be selected with a single touch via the "APP MENU". For instance, CELOS APPs like the "JOB MANAGER" or "JOB ASSISTANT" support machine operators with the network-integrated preparation, optimisation and systematic processing of production orders (with workpieces, equipment and NC programmes).



WORKSHOP OF THE FUTURE

With its open structure and integration ability, CELOS offers unique opportunities for the expansion of functionality with targeted applications.



Systematic planning, administration and preparation of orders

- > Machine-related creation and configuration of new orders
- > Structured saving of all production-related data and documents
- > Visualisation of orders, including NC programme, equipment, etc.



Choosing and processing orders

- > Menu-guided set-up of the machine and processing of production orders in the dialogue
- > Reliable error prevention thanks to work instructions with binding check list



Visualise workpieces and optimise programme data

- > Direct remote access to external CAD / CAM workstations
- > Central master data as basis for component visualisation
- > Immediate change options for machining steps, NC programmes and CAM strategies, directly in the control system

Machine specifications (NLX 1500)

	Item		NLX 1500MC 500	NLX 1500Y 500	NLX 1500SMC 500	NLX 1500SY 500
	Swing over bed	mm (in.)				
	Swing over cross slide mm (in.)		923.8 (36.4) <interference (24.6)="" 626="" cover="" front="" with=""> 755 (29.7)</interference>			
	Max. turning diameter	mm (in.)		<u>`</u>	366 (14.4)*2	
Capacity	Standard turning diameter	mm (in.)	260 (10.2)*1 271 (10.6)*2 [192 (7.5) <20-station turret head>]			
	Max. turning length	mm (in.)		515 (20.2)	
	Bar work capacity	mm (in.)		52 (2.0)*3 [34 (1.	3) <8,000 min ⁻¹ >*3]	
	X-axis travel	mm (in.)		260 (1	
	Z-axis travel	mm (in.)				
Travel	Y-axis travel	mm (in.)	_	100 <±50> (3.9 <±2.0>)	_	100 <±50> (3.9 <±2.0>)
	Headstock 2 travel <b-axis></b-axis>	mm (in.)	-	_	624 (24.6)
	Max. spindle speed	min ⁻¹	6,000 [6,000 <high outp<="" td=""><td>ut>] [8,000 <high speed="">]</high></td><td></td><td>n output>] [8,000 <high speed="">] 8,000 <high speed="">]</high></high></td></high>	ut>] [8,000 <high speed="">]</high>		n output>] [8,000 <high speed="">] 8,000 <high speed="">]</high></high>
	Type of spindle nose		JIS	A ₂ -5	Spindle 1,	2: JIS A ₂ -5
Spindle	Mark de la companya d			43 (1.7) <8,000 min ⁻¹ >] :: 43 (1.7)		
	Min. spindle indexing angle			0.00)1°	
	Spindle bearing inner diamete	er mm (in.)	100 (3.9) [85 (3	.3) <8,000 min ⁻¹ >]		85 (3.3) <8,000 min ⁻¹ >] :: 85 (3.3)
	Number of tool stations			12 [16	6] [20]	
	Shank height for square tool	mm (in.)		20 (3/4)	/25 (1)	
Turret	Shank diameter for boring bar mm (in.)		40 (1½)/50 (2) [25 (1) <double boring="" holder="">] [32 (1½) <20-station turret head>]</double>		Spindle 1: 40 (1½)/50 (2) [25 (1) <double boring="" holder="">] Spindle 2: 32 (1¼) [25 (1) <20-station turret head>]</double>	
	Tool shank diameter for rotary tool mm (in.)		26 (1.0)			
	Turret indexing time	S	0.25			
	Max. rotary tool spindle spee	d min ⁻¹		10,000 [10,00	0 <high torque="">]</high>	
Feedrate	Rapid traverse rate	mm/min (ipm)	X, Z: 30,000 (1,181.1) Tailstock <forward retract="">: 7,000/20,000 (275.6/787.4) C: 400 min⁻¹</forward>	X, Z: 30,000 (1,181.1) Y: 10,000 (393.7) Tailstock <forward retract="">: 7,000/20,000 (275.6/787.4) C: 400 min⁻¹</forward>	X, Z, B: 30,000 (1,181.1) C: 400 min ⁻¹	X, Z, B: 30,000 (1,181.1) Y: 10,000 (393.7) C: 400 min ⁻¹
	Tailstock travel	mm (in.)	564 (22.2)	-	_
Tailstock	Tailstock spindle diameter	mm (in.)	,	3.1)	_	
	Taper hole of tailstock spindle	. ,	Live center <mt4> [B</mt4>		-	
	Spindle drive motor 6,0 <50%ED/30 min/cont>	00 min ⁻¹ kW (HP)	11/11/7.5 [15/15/11 ([15/15/11	1/7.5 (15/15/10) (20/20/15)] 5/10) <25%ED/cont>
	8,000 min ⁻¹ kW (H		[11/7.5 (15/10) <25%ED/cont>]		Spindle 1, 2: [11/7.5 (15/10) <25%ED/cont>]	
Motor	Rotary tool spindle drive mot	or	,	5.5/5.5/3.7 (7.5/7.5/5) [12-station VDI quick- change turret (Sauter Trifix):	5.5/5.5/3.7 (7.5/7.5/5)	5.5/5.5/3.7 (7.5/7.5/5) [12-station VDI quick- change turret (Sauter Trifix):
	<3 min/5 min/cont>	kW (HP)	5.5/5.5/3.7 (7.5/7.5/5)	10.7/6.1 (14.3/8.1) <15%ED/cont>]		10.7/6.1 (14.3/8.1) <15%ED/cont>]
		kW (HP)	X: 2.0 (2.7) Z: 3.0 (4)	10.7/6.1 (14.3/8.1)	X, B: 2.0 (2.7) Z: 3.0 (4)	10.7/6.1 (14.3/8.1)
Down courses	<3 min/5 min/cont>	kW (HP)	X: 2.0 (2.7) Z: 3.0 (4)	10.7/6.1 (14.3/8.1) <15%ED/cont>]	X, B: 2.0 (2.7) Z: 3.0 (4) 25.7	10.7/6.1 (14.3/8.1) <15%ED/cont>] X, Z, Y: 3.0 (4)
Power sources <standard></standard>	<3 min/5 min/cont> Feed motor Electrical power supply <cont:< td=""><td>kW (HP)</td><td>X: 2.0 (2.7) Z: 3.0 (4)</td><td>10.7/6.1 (14.3/8.1) <15%ED/cont>] X, Z, Y: 3.0 (4) 24.8 te tool tip air blow is regularly used, air</td><td>25.7 0.5 (72.5), 250 (66.0) (when the</td><td>10.7/6.1 (14.3/8.1) <15%ED/cont>] X, Z, Y: 3.0 (4) B: 2.0 (2.7) 29.0</td></cont:<>	kW (HP)	X: 2.0 (2.7) Z: 3.0 (4)	10.7/6.1 (14.3/8.1) <15%ED/cont>] X, Z, Y: 3.0 (4) 24.8 te tool tip air blow is regularly used, air	25.7 0.5 (72.5), 250 (66.0) (when the	10.7/6.1 (14.3/8.1) <15%ED/cont>] X, Z, Y: 3.0 (4) B: 2.0 (2.7) 29.0
<standard></standard>	<3 min/5 min/cont> Feed motor Electrical power supply <cont:< td=""><td>kW (HP)</td><td>X: 2.0 (2.7) Z: 3.0 (4) 21.5 0.5 (72.5), 100 (26.4) (when the</td><td>10.7/6.1 (14.3/8.1) <15%ED/cont>] X, Z, Y: 3.0 (4) 24.8 te tool tip air blow is regularly used, air</td><td>25.7 0.5 (72.5), 250 (66.0) (when the supply of more than 300 L/min (79.2</td><td>10.7/6.1 (14.3/8.1) <15%ED/cont>] X, Z, Y: 3.0 (4) B: 2.0 (2.7) 29.0 te tool tip air blow is regularly used, air</td></cont:<>	kW (HP)	X: 2.0 (2.7) Z: 3.0 (4) 21.5 0.5 (72.5), 100 (26.4) (when the	10.7/6.1 (14.3/8.1) <15%ED/cont>] X, Z, Y: 3.0 (4) 24.8 te tool tip air blow is regularly used, air	25.7 0.5 (72.5), 250 (66.0) (when the supply of more than 300 L/min (79.2	10.7/6.1 (14.3/8.1) <15%ED/cont>] X, Z, Y: 3.0 (4) B: 2.0 (2.7) 29.0 te tool tip air blow is regularly used, air
<standard></standard>	<3 min/5 min/cont> Feed motor Electrical power supply <cont.< p=""> Compressed air supply MF</cont.<>	kW (HP) kW (HP) > 194333401 kVA Pa (psi), L/min (gpm)	X: 2.0 (2.7) Z: 3.0 (4) 21.5 0.5 (72.5), 100 (26.4) (when the	10.7/6.1 (14.3/8.1) <15%ED/cont>] X, Z, Y: 3.0 (4) 24.8 te tool tip air blow is regularly used, air gpm) is separately required; <anr></anr>	25.7 0.5 (72.5), 250 (66.0) (when the supply of more than 300 L/min (79.2 58.1)	10.7/6.1 (14.3/8.1) <15%ED/cont>] X, Z, Y: 3.0 (4) B: 2.0 (2.7) 29.0 te tool tip air blow is regularly used, air
<standard></standard>	<3 min/5 min/cont> Feed motor Electrical power supply <cont.< p=""> Compressed air supply MF Coolant tank capacity</cont.<>	kW (HP) kW (HP) > 194333401 kVA 2a (psi), L/min (gpm) L (gal.)	X: 2.0 (2.7) Z: 3.0 (4) 21.5 0.5 (72.5), 100 (26.4) (when the supply of more than 300 L/min (79.2)	10.7/6.1 (14.3/8.1) <15%ED/cont>] X, Z, Y: 3.0 (4) 24.8 Le tool tip air blow is regularly used, air gpm) is separately required <anr> 220 (</anr>	25.7 0.5 (72.5), 250 (66.0) (when the supply of more than 300 L/min (79.2 58.1) (84.4)	10.7/6.1 (14.3/8.1) <15%ED/cont>] X, Z, Y: 3.0 (4) B: 2.0 (2.7) 29.0 te tool tip air blow is regularly used, air gpm) is separately required <anr></anr>

Machine specifications (NLX 2000)

	Item		NLX 2000MC 500	NLX 2000Y 500	NLX 2000SMC 500	NLX 2000SY 500	
	Swing over bed	mm (in.)		923.8 (36.4) <interference td="" v<=""><td>with front cover 626 (24.6)></td><td></td></interference>	with front cover 626 (24.6)>		
	Swing over cross slide	mm (in.)		755 (29.7)		
0	Max. turning diameter	mm (in.)			356 (14.0)*2 station turret head>]		
Capacity	Standard turning diameter	mm (in.)			275 (10.8)*2 tation turret head>]		
	Max. turning length	mm (in.)		510 (20.0)		
	Bar work capacity	mm (in.)		65 (2	2.5)*3		
	X-axis travel	mm (in.)		260 (10.2)		
	Z-axis travel	mm (in.)	590 (23.2) [580 (22.8) <20-station turret head>]				
Travel	Y-axis travel	mm (in.)	_	100 <±50> (3.9 <±2.0>)	_	100 <±50> (3.9 <±2.0>)	
	Headstock 2 travel <b-axis></b-axis>	mm (in.)	-	_	624 ((24.6)	
	Max. spindle speed	min ⁻¹	5,000 [5,000	<high output="">]</high>		5,000 <high output="">] spindle hole diameter: 73 mm (2.9 in.)>]</high>	
	Type of spindle nose		JIS	A ₂ -6		: JIS A ₂ -6 h-spindle hole diameter: 73 mm (2.9 in.)>]	
Spindle	Through-spindle hole diameter	mm (in.)	73 ((2.9)		: 73 (2.9) (1.7) [73 (2.9)]	
	Min. spindle indexing angle			0.00)1°		
	Spindle bearing inner diameter	mm (in.)	120	(4.7)		: 120 (4.7) gh-spindle hole diameter: 73 mm (2.9 in.)>]	
	Number of tool stations			12 [10]	[16] [20]		
	Shank height for square tool	mm (in.)		25 (1) [20 (3/4) <20)-station turret head>]		
Turret	Shank diameter for boring bar	mm (in.)		double boring holder>] tation turret head>]		1/ ₄) <double boring="" holder="">] (1) <20-station turret head>]</double>	
	Tool shank diameter for rotary to	ool mm (in.)	26 (1.0)				
	Turret indexing time	S		0.	25		
	Max. rotary tool spindle speed	min ⁻¹		10,000 [10,00	0 <high torque="">]</high>		
Feedrate	Rapid traverse rate	mm/min (ipm)	X, Z: 30,000 (1,181.1) Tailstock <forward retract="">: 7,000/20,000 (275.6/787.4) C: 400 min⁻¹</forward>	X, Z: 30,000 (1,181.1) Y: 10,000 (393.7) Tailstock <forward retract="">: 7,000/20,000 (275.6/787.4) C: 400 min⁻¹</forward>	X, Z, B: 30,000 (1,181.1) C: 400 min ⁻¹	X, Z, B: 30,000 (1,181.1) Y: 10,000 (393.7) C: 400 min ⁻¹	
	Tailstock travel	mm (in.)	564	(22.2)	-		
Tailstock	Tailstock spindle diameter	mm (in.)	80	(3.1)	_		
	Taper hole of tailstock spindle		Live center <mt4> [E</mt4>	Built-in center <mt3>]</mt3>	-		
	Spindle drive motor <15%ED/30 min/cont>	kW (HP)		(20/20/15) (30/30/20)]	[22/22/15	5/11(20/20/15) (30/30/20)] 5/10) <25%ED/cont>	
Motor	Rotary tool spindle drive motor <3 min/5 min/cont>	kW (HP)	5.5/5.5/3.7 (7.5/7.5/5)	5.5/5.5/3.7 (7.5/7.5/5) [12-station VDI quick- change turret (Sauter Trifix): 10.7/6.1 (14.3/8.1) <15%ED/cont>]	5.5/5.5/3.7 (7.5/7.5/5)	5.5/5.5/3.7 (7.5/7.5/5) [12-station VDI quick- change turret (Sauter Trifix): 10.7/6.1 (14.3/8.1) <15%ED/cont>]	
	Feed motor	kW (HP)	X: 2.0 (2.7) Z: 3.0 (4)	X, Z, Y: 3.0 (4)	X, B: 2.0 (2.7) Z: 3.0 (4)	X, Z, Y: 3.0 (4) B: 2.0 (2.7)	
Dawer see	Electrical power supply <cont></cont>	194333A01 kVA	25.4	28.7	29.6	32.9	
Power sources <standard></standard>	Compressed air supply MPa (p	osi), L/min (gpm)	. , , , , , , , , , , , , , , , , , , ,	ne tool tip air blow is regularly used, air gpm) is separately required} <anr></anr>	0.5 (72.5), 250 (66.0) (when the tool tip air blow is regularly used, air supply of more than 300 L/min (79.2 gpm) is separately required) <anr></anr>		
Tank capacity	Coolant tank capacity	L (gal.)		220 (58.1)		
	Machine height <from floor=""></from>	mm (in.)		2,145	(84.4)		
Machine size	Floor space <width×depth></width×depth>	mm (in.)	<u> </u>	081 (111.0×81.9) [3,562×2,0	81 (140.2×81.9) <including chip="" conveyor="">]</including>		
	Mass of machine	kg (lb.)	5,000 (11,000)	5,100 (11,220)	5,400 (11,880) 5,500 (12,100)		

For details, please check the compressor specifications.

The information in this catalog is valid as of May 2014.



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.



<Pre><Pre>cautions for Machine Relocation>

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