

CNC Lathe

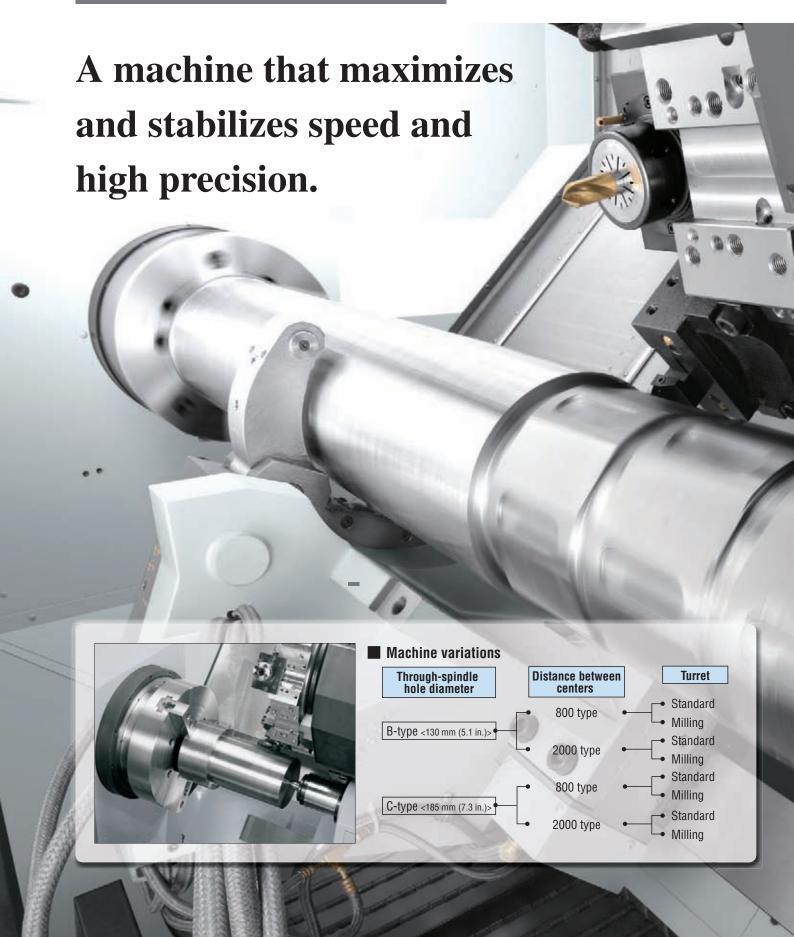
SL-403



SL-403

SL-403

CNC Lathe





Spindle



The spindle drive utilizes a highoutput, high-torque AC spindle motor that can handle heavy and/ or continuous cutting of a variety of workpieces.

Spindle lubrication

Uses an oil-air lubrication system for the spindle, to allow stable rotation of the large-diameter bearing at high speeds.

<Air consumption>

B-type: 600 L/min (158.4 gpm) < ANR >

C-type: 300 L/min (79.2 gpm) <ANR>

Spindle cooling

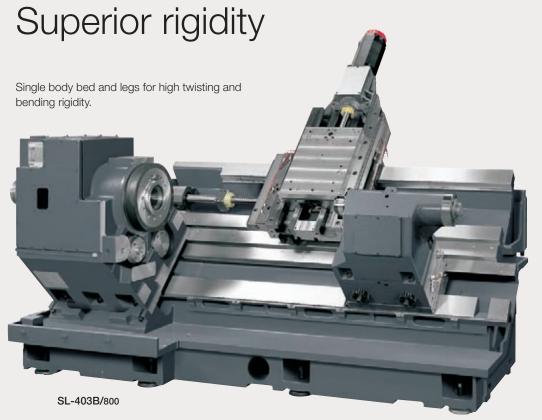
Oil cooler included as standard equipment (C-type)

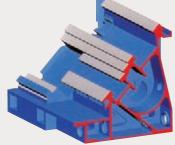
To control heating, the spindle is wrapped in an oil jacket which is fed by an oil cooler.

Through-spindle hole diameter

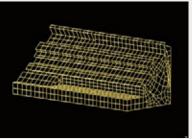
B-type: 130 mm (5.1 in.)

C-type: 185 mm (7.3 in.)





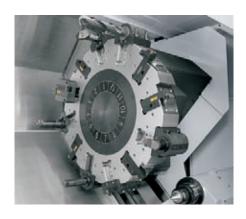
Bed and legs are cast as a single unit for high precision machining.



Ribbing was optimized by FEM analysis.

FEM: Finite Element Method

Turret, Feed



■ Turret indexing time

0.4 sec. (1-station)

■ Rapid traverse rate

X-axis: 20 m/min (787.4 ipm) Z-axis: 24 m/min (944.9 ipm)

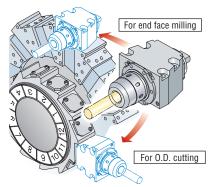
The turret employs DMG MORI SEIKI's own nonstop random indexing system driven by a servo motor.

Milling specifications



Once-only chucking lets you turn, mill, drill, or tap.

■ Rotary-tool holders



Rotary-tool holders can be mounted in all stations and used for O.D. cutting or end face milling.

Synchronized tapping function (standard)

Rotating speed of the rotary tool spindle is synchronized with \boldsymbol{X} and \boldsymbol{Z} axes feed.

- Max. speed of rotary tool spindle is 3,000 min⁻¹.
 Max. pressure for oil-hole tool holder is 0.7 MPa (101.5 psi).
- The oil-hole tool holder requires coolant spraying.

C-axis control

With C-axis control, users get synchronized control on 3 axes that enables integrated processing, such as milling while the spindle turns.

■ Rapid traverse rate

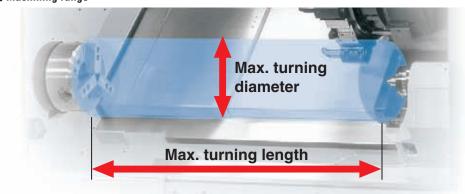
C-axis: 56 min⁻¹ (BMC, CMC)

Ideal for shaft workpieces



• The photo shows the machine equipped with options

Machining range



Max. turning diameter

620 mm (24.4 in.)

650 mm (25.5 in.) <BMC, CMC>

Max. turning length

958 mm (37.7 in.) < SL-403B/800 >

868 mm (34.1 in.) <SL-403C/800>

 $773 \text{ mm } (30.4 \text{ in.}) < \text{SL-}403 \text{CMC/}800 > 1,973 \text{ mm } (77.6 \text{ in.}) < \text{SL-}403 \text{CMC/}2000 > 1,973 \text{ mm } (77.6 \text{ in.}) < \text{SL-}403 \text{CMC/}2000 > 1,973 \text{ mm } (77.6 \text{ in.}) < \text{SL-}403 \text{CMC/}2000 > 1,973 \text{ mm } (77.6 \text{ in.}) < \text{SL-}403 \text{CMC/}2000 > 1,973 \text{ mm } (77.6 \text{ in.}) < \text{SL-}403 \text{CMC/}2000 > 1,973 \text{ mm } (77.6 \text{ in.}) < \text{SL-}403 \text{CMC/}2000 > 1,973 \text{ mm } (77.6 \text{ in.}) < \text{SL-}403 \text{CMC/}2000 > 1,973 \text{ mm } (77.6 \text{ in.}) < \text{SL-}403 \text{CMC/}2000 > 1,973 \text{ mm } (77.6 \text{ in.}) < \text{SL-}403 \text{CMC/}2000 > 1,973 \text{ mm } (77.6 \text{ in.}) < \text{SL-}403 \text{CMC/}2000 > 1,973 \text{ mm } (77.6 \text{ in.}) < \text{SL-}403 \text{CMC/}2000 > 1,973 \text{ mm } (77.6 \text{ in.}) < \text{SL-}403 \text{CMC/}2000 > 1,973 \text{ mm } (77.6 \text{ in.}) < \text{SL-}403 \text{CMC/}2000 > 1,973 \text{ mm } (77.6 \text{ in.}) < \text{SL-}403 \text{CMC/}2000 > 1,973 \text{ mm } (77.6 \text{ in.}) < \text{SL-}403 \text{CMC/}2000 > 1,973 \text{ mm } (77.6 \text{ in.}) < \text{SL-}403 \text{CMC/}2000 > 1,973 \text{ mm } (77.6 \text{ in.}) < \text{SL-}403 \text{CMC/}2000 > 1,973 \text{ mm } (77.6 \text{ in.}) < \text{SL-}403 \text{CMC/}2000 > 1,973 \text{ mm } (77.6 \text{ in.}) < \text{SL-}403 \text{CMC/}2000 > 1,973 \text{ mm } (77.6 \text{ in.}) < \text{SL-}403 \text{CMC/}2000 > 1,973 \text{ mm } (77.6 \text{ in.}) < \text{SL-}403 \text{CMC/}2000 > 1,973 \text{ mm } (77.6 \text{ in.}) < \text{SL-}403 \text{CMC/}2000 > 1,973 \text{ mm } (77.6 \text{ in.}) < \text{SL-}403 \text{CMC/}2000 > 1,973 \text{ mm } (77.6 \text{ in.}) < \text{SL-}403 \text{CMC/}2000 > 1,973 \text{ mm } (77.6 \text{ in.}) < \text{SL-}403 \text{CMC/}2000 > 1,973 \text{ mm } (77.6 \text{ in.}) < \text{SL-}403 \text{CMC/}2000 > 1,973 \text{ mm } (77.6 \text{ in.}) < \text{SL-}403 \text{CMC/}2000 > 1,973 \text{ mm } (77.6 \text{ in.}) < \text{SL-}403 \text{CMC/}2000 > 1,973 \text{ mm } (77.6 \text{ in.}) < \text{SL-}403 \text{CMC/}2000 > 1,973 \text{ mm } (77.6 \text{ in.}) < \text{SL-}403 \text{CMC/}2000 > 1,973 \text{ mm } (77.6 \text{ in.}) < \text{SL-}403 \text{CMC/}2000 > 1,973 \text{ mm } (77.6 \text{ in.}) < \text{SL-}403 \text{CMC/}2000 > 1,973 \text{ mm } (77.6 \text{ in.}) < \text{SL-}403 \text{CMC/}2000 > 1,973 \text{ mm } (77.6 \text{ in.}) < \text{SL-}403 \text{CMC/}2000 > 1,973 \text{ mm } (77.6 \text{ in.}) < \text{SL-}403 \text{CMC/}2000 > 1,973 \text{ mm } (77.6 \text{ in.}) < \text{SL-}403 \text{CMC/}2000 > 1,973 \text{ mm$

2,158 mm (84.9 in.) <SL-403B/2000>

2,068 mm (81.4 in.) <SL-403C/2000>

863 mm (33.9 in.) < SL-403 BMC/800 > 2,063 mm (81.2 in.) < SL-403 BMC/2000 > 0.00 mm

■ Tailstock travel

SL-403/800

 $850\,\text{mm}$ (33.5 in.)

<bul><built-in center>

SL-403/2000

2,000 mm(78.7 in.)

Programmable tailstock (carriage direct-coupled)



The tailstock can be moved easily to any position, which shortens setup time between differing workpiece sizes.

<a distance between centers of 2.000 mm (78.7 in.) is standard>

Built-in tailstock spindle (distance between centers 2000 type)

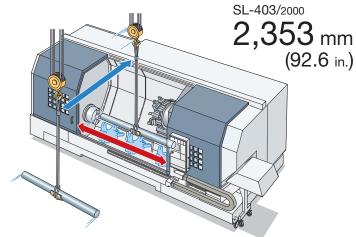


A highly rigid built-in tailstock stabilize long or large workpieces. (a carbide center is an option)

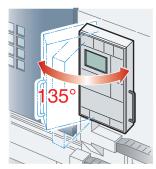
In order to achieve high-speed, high-precision machining of long workpieces, we have installed a highly rigid bed and specialized functions and equipment for bar workpieces. It is the definitive bar work machine, eliminating all compromise.

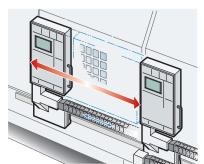
■ Door opening (max.)

To improve operability when using a crane, it is equipped with a wide door opening.



Operability

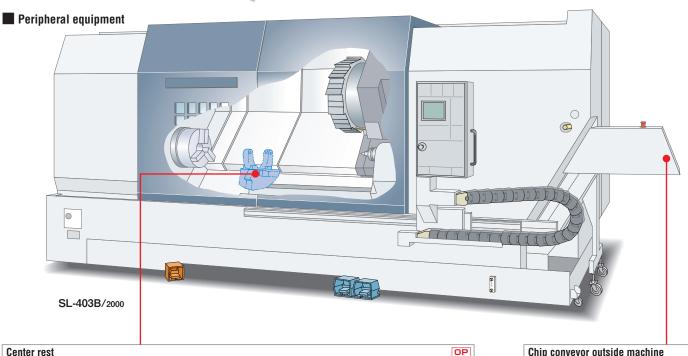




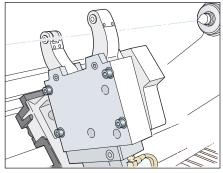
Depending on machining situation, the operator can slide the operation panel for ease and comfort.

Operation panel travel

1,650 mm (65.0 in.) SL-403/2000

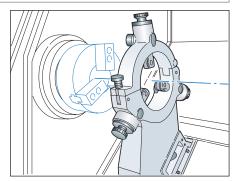


Center rest



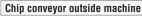
Hydraulic steady rest

The hydraulic steady rest can be set up in less time and without any manual setting thanks to automatic centering.



Steady rest

Bolts are tightened manually, supporting the workpiece.





OP

Chips are continuously transported out of the machine to prevent buildup inside.

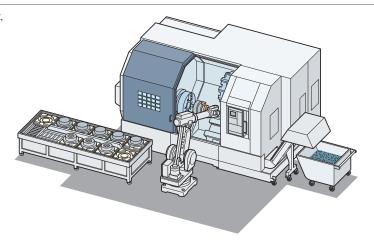
• The hinge type chip conveyor is standard for the machines with distances between centers of 2000.

System examples

Robots make workpiece loading and unloading more efficient, which improves productivity.

Add any of the below options. < Consultation is required>

- Robot (interface)
- Work stocker
- Workpiece holding detector
- Guard fence, etc.



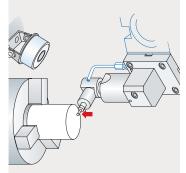
Coolant cooling system (separate type) <Consultation is required>

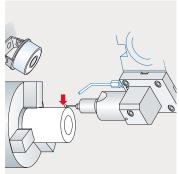
Raised coolant temperature causes thermal displacement in the fixtures and workpiece, affecting the machining accuracy of the workpiece. Use this unit to prevent the coolant from heating up. When using oil-based coolant, the coolant temperature can become extremely high even with the standard coolant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







In-machine workpiece measuring system



Mist collector <Consultation is required>



Air chuck <Consultation is required>



Coolant float switch < Consultation is required>



Oil skimmer <Consultation is required>

Chip disposal

			Workpiece materi	al and chip size		○: Sui	table ×: Not suitable
Specifications		Steel		Cast iron	Aluı	minum/non-ferrous m	etal
	Long	Short	Powdery	Short	Long	Short	Powdery
Hinge type	0	0	×	×	0	×	×
Scraper type <consultation is="" required=""></consultation>	×	0	0	0	×	×	×
Hinge type+drum filter type <consultation is="" required=""></consultation>	0	0	0	0	0	0	0
Hinge type+scraper type+ drum filter type <consultation is="" required=""></consultation>	0	0	0	0	0	0	0

- ullet Chip size guidelines Short: chips 50 mm (2.0 in.) or less in length, bundles of chips ϕ 40 mm (ϕ 1.6 in.) or less Long: bigger than the above
- 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.
- Chip conveyors are available in various types for handling chips of different shape and material.
 For details, please consult with our sales representative.
- The options table below the general options when using coolant. Changes may be necessary if you are not using coolant, or depending on the amount of coolant, compatibility with machines, or the specifications required.



19-inch operation panel

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
- 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.

Kevboard

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.



Advanced hardware

Reduction of drawing time

Shorter drawing time was achieved thanks to increased CPU performance.



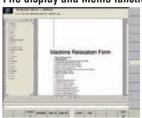
Main specifications

Main memory	3 GB
User area	Standard: 6 GB Option: 20 GB
Interface	USB 2.0 3 ports (Screen side: 1, Bottom and back of operation panel: each 1) LAN 2 ports (1000BASE-T) RS-232-C port Memory card slot
Soft-keys	Left/right 12 keys Bottom 12 keys

Improved ease of setup and maintenance

MAPPS IV is packed with new functions for easier setup and maintenance, including the File Display and Memo function that displays operating instructions and manuals on the screen and the Alarm help function that provides instructions when alarms occur.

File display and Memo function



Alarm help function



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 cutting tools)
- (to check chip accumulation)

Network application systems

Remote Maintenance/Machine Operation Monitoring Service

MUKI-NE | Global Edition Advance 👓

This system enables access to customer support services as well as high-speed, large-capacity data transmission between the machines and Service Center, by using a network that combines the internal LAN and the Internet.

- Download data
- Remote alarm support
- Transmission of alarm information

Application for Data Transmission

MURI-SERVER [Standard features]

This enables high-speed transfer of programming data between your office computer and machine, reducing the lead time of pre-machining processes.

- The photo shown may differ from actual machine.
- Information about the screen is current as of May 2012.

Machine specifications

	Item		SL-403B/800	SL-403C/800	SL-403BMC/800	SL-403CMC/800
	Swing over bed	mm (in.)		710 (28.0) <interfere< th=""><th>nce with front cover></th><th></th></interfere<>	nce with front cover>	
	Swing over cross slide	mm (in.)		738 (
	Between centers	mm (in.)	1,125 (44.3)	1,106 (43.5)	1,125 (44.3)	1,106 (43.5)
Capacity	Max. turning diameter	mm (in.)	620 ((24.4)	650	(25.5)
	Standard turning diameter	mm (in.)		(14.4) station turret head>]		(14.7) station turret head>]
	Max. turning length	mm (in.)	958 (37.7)	868 (34.1)	863 (33.9)	773 (30.4)
Travel	X-axis	mm (in.)	345 (13.6) <310 {travel in the minus direction	(12.2) +35 (1.4) on from the spindle center}>	345 (13.6) <325 {travel in the minus directi	o (12.8) +20 (0.8) on from the spindle center}>
	Z-axis	mm (in.)	995 ((39.2)		(35.4)
	Max. spindle speed	min ⁻¹	2,400 [1,900]	1,500	2,400 [1,900]	1,500
	Number of spindle speed ranges			2	2	
Spindle	Type of spindle nose		JIS A2-11	JIS A2-15	JIS A2-11	JIS A2-15
opinuie	Through-spindle hole diameter	mm (in.)	130 (5.1)	185 (7.3)	130 (5.1)	185 (7.3)
	Min. spindle indexing angle		-	_	0.001° <least< td=""><td>input increment></td></least<>	input increment>
	Spindle bearing inner diameter	mm (in.)	180 (7.1)	260 (10.2)	180 (7.1)	260 (10.2)
	Number of tool stations		12	[10]		[10] bls: 12 [10]>
T	Shank height for square tool	mm (in.)		32 (
Turret	Shank diameter for boring bar	mm (in.)		Max. 60	0 (2 1/2)	
	Turret indexing time	S		0.	4	
	Max. rotary tool spindle speed	min ⁻¹	-	_	3,	000
Feedrate	Rapid traverse rate	mm/min (ipm)	X: 20,000 (787.4)	Z: 24,000 (944.9)	Z: 24,00	00 (787.4) 00 (944.9) 6 min ⁻¹
	Jog feedrate	mm/min (ipm)		X, Z: 0—5,000 (0—		<u>- </u>
	Tailstock travel	mm (in.)		850 (33.5) [800 (3 ⁻	, ,	
	Tailstock spindle diameter	mm (in.)	[110 (4.3) 110 (4.3) 	re center MT5>	ō>]
Tailstock	Taper hole of tailstock spindle			MT5 <liv [MT4 <built-in center="">]</built-in></liv 		
	Tailstock spindle travel	mm (in.)		150	(5.9)	
	Spindle drive motor <30 min/cont>	kW (HP)		30/22 (40/30) [37/30 (50/40)]	
Motor	Feed motor <x z-axis=""></x>	kW (HP)	7.0/4.5	(9.3/6)	6.0/4	.5 (8/6)
Motor	Rotary tool spindle drive motor <30	min/cont> kW (HP)		_	9/7.5	(12/10)
	Coolant pump motor	kW (HP)		0.52 (0.69)	
Daway aawyaa	Electrical power supply <cont></cont>	194166F01 kVA		2.8 gh output>]		1.6 gh output>]
Power sources	Compressed air supply <standard></standard>	MPa (psi), L/min (gpm)	0.5 (72.5), 600 (158.4) <anr></anr>	0.5 (72.5), 300 (79.2) <anr></anr>	0.5 (72.5), 600 (158.4) <anr></anr>	0.5 (72.5), 300 (79.2) <anr></anr>
Tank capacity	Coolant tank capacity	L (gal.)		234 (61.8)	·
	Machine height <from floor=""></from>	mm (in.)		2,455	•	
Machine size	Floor space <width×depth></width×depth>	mm (in.)	3,789×2,338 (149.2×92.0)	4,149×2,898 (163.3×114.1) <depth cooler="" includes="" oil=""></depth>	4,049×2,338 (159.4×92.0)	4,409×2,898 (173.6×114.1 <depth cooler="" includes="" oil=""></depth>
	Mass of machine	kg (lb.)	11,000	(24,200)	12,000	(26,400)
Noise data	A-weighted, time-average radiated s	ound pressure level db		70-78 (Measuremen	t uncertainty is 4 dB)	

- 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: 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.

 Noise data: The values were measured at the front of the SL-403B/800 with a maximum spindle speed of 2,400 min⁻¹. Please contact your sales representative for details.

 The information in this catalog is valid as of January 2012.

Machine specifications

	Item		SL-403B/2000	SL-403C/2000	SL-403BMC/2000	SL-403CMC/2000
	Swing over bed	mm (in.)		935 (36.8)	
	Swing over cross slide	mm (in.)		738 (29.1)	
	Between centers	mm (in.)		2,325	(91.5)	
Capacity	Max. turning diameter	mm (in.)	620 ((24.4)	650	(25.5)
	Standard turning diameter	mm (in.)		(14.4) station turret head>]		(14.7) station turret head>]
	Max. turning length	mm (in.)	2,158 (84.9)	2,068 (81.4)	2,063 (81.2)	1,973 (77.6)
Travel	X-axis	mm (in.)		(12.2) + 35 (1.4) on from the spindle center}>	, ,	(12.8) + 20 (0.8) on from the spindle center}>
	Z-axis	mm (in.)	2,195	(86.4)	2,100	(82.7)
	Max. spindle speed	min-1	2,400 [1,900]	1,500	2,400 [1,900]	1,500
	Number of spindle speed ranges			2	2	
Paindle	Type of spindle nose		JIS A2-11	JIS A2-15	JIS A2-11	JIS A2-15
Spindle	Through-spindle hole diameter	mm (in.)	130 (5.1)	185 (7.3)	130 (5.1)	185 (7.3)
	Min. spindle indexing angle		-	_	0.001° <least i<="" td=""><td>nput increment></td></least>	nput increment>
	Spindle bearing inner diameter	mm (in.)	180 (7.1)	260 (10.2)	180 (7.1)	260 (10.2)
	Number of tool stations		12	[10]		[10] ols: 12 [10]>
Turret	Shank height for square tool	mm (in.)		32 (1/4)	
	Shank diameter for boring bar	mm (in.)		Max. 6	(2 1/2)	
	Turret indexing time	S		0	.4	
	Max. rotary tool spindle speed	min ⁻¹	-	_	3,	000
Feedrate	Rapid traverse rate	mm/min (ipm)	X: 20,000 (787.4)	Z: 24,000 (944.9)	Z: 24,00	0 (787.4) 0 (944.9) 3 min ⁻¹
	Jog feedrate	mm/min (ipm)		X, Z: 0-5,000 (0-	-197.0) <20 steps>	
	Tailstock travel	mm (in.)		2,000	(78.7)	
Failetaalı	Tailstock spindle diameter	mm (in.)		150	(5.9)	
Tailstock	Taper hole of tailstock spindle			MT5 <buil< td=""><td>t-in center></td><td></td></buil<>	t-in center>	
	Tailstock spindle travel	mm (in.)		150	(5.9)	
	Spindle drive motor <30 min/cont>	kW (HP)		30/22 (40/30)	[37/30 (50/40)]	
Matau	Feed motor <x z-axis=""></x>	kW (HP)	7.0/7.0	(9.3/9.3)	6.0/7.0	0 (8/9.3)
Vlotor	Rotary tool spindle drive motor <30	min/cont> kW (HP)	-	_	9/7.5	(12/10)
	Coolant pump motor	kW (HP)		0.52	(0.69)	
Downer courons	Electrical power supply <cont></cont>	194166F01 kVA		3.4 gh output>]		2.3 gh output>]
Power sources	Compressed air supply <standard></standard>	MPa (psi), L/min (gpm)	0.5 (72.5), 600 (158.4) <anr></anr>	0.5 (72.5), 300 (79.2) <anr></anr>	0.5 (72.5), 600 (158.4) <anr></anr>	0.5 (72.5), 300 (79.2) <anr></anr>
Tank capacity	Coolant tank capacity	L (gal.)		330 (87.1)	
	Machine height <from floor=""></from>	mm (in.)		2,543	(100.1)	
Machine size	Floor space <width×depth> {width includes chip conveyor}</width×depth>	mm (in.)	6,185×2,604 (243.5×102.5)	6,545×3,164 (257.7×124.6) <depth cooler="" includes="" oil=""></depth>	6,185×2,604 (243.5×102.5)	6,545×3,164 (257.7×124.6 <depth cooler="" includes="" oil=""></depth>
	Mass of machine	kg (lb.)	14,000	(30,800)	15,000	(33,000)
Noise data	A-weighted, time-average radiated s	sound pressure level db		70-78 (Measuremer	nt uncertainty is 4 dB)	

[] Option JIS: Japanese Industrial Standard

- 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: 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 belows.
- 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.

 • Noise data: The values were measured at the front of the SL-403B/800 with a maximum spindle speed of 2,400 min⁻¹. Please contact your sales representative for details.

- The information in this catalog is valid as of January 2012.



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>

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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- 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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