DMG MORI

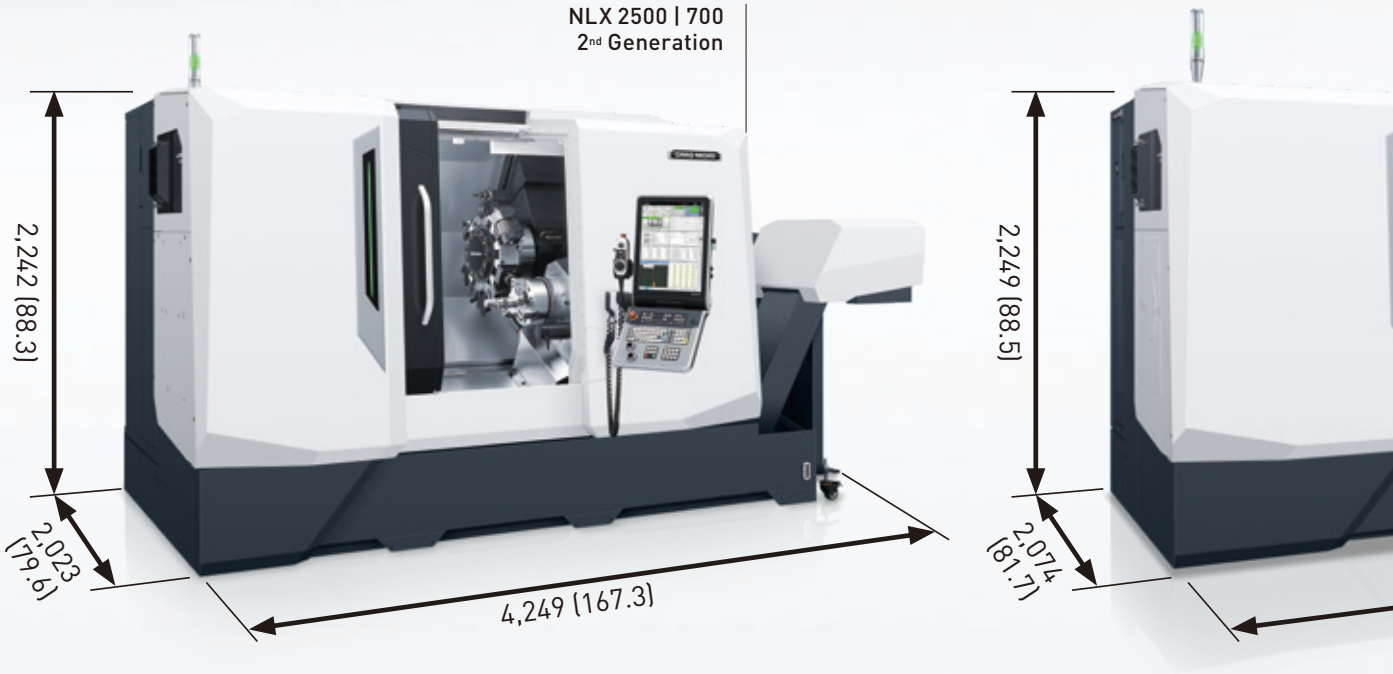
RIGID AND PRECISE TURNING CENTER

NLX 2500 | 700
NLX 2500 | 1250

NLX 2500 2nd Generation

dmgmori.com

The Best of DMG MORI Technology: The Turning Center of the Next Era



Rigidity

P06

+ Slideways for X / Y / Z axes
+ Widest-in-class sliding surface
+ Dynamic rigidity improved by 1.3 times for the left spindle and 4.0 times for the right spindle (vs. 1st Generation)

Precision

P08

+ Coolant circulation for casting parts
+ Ball screw center cooling (X / Y / Z axes)
+ Full closed loop control
+ MAP compensation

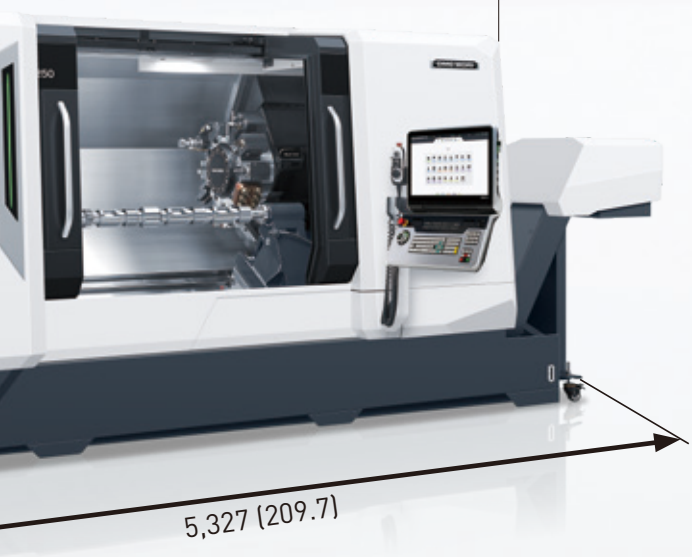
Spindle

P10

+ turnMASTER spindle
+ Equivalent performance for both spindles
+ Large through-hole spindle ϕ115 mm (ϕ4.5 in.)

The NLX 2500 has been completely redesigned and upgraded as the 2nd generation based on vital user feedback. With its excellent thermal stability and accuracy, improved cutting and milling performance, and a standardized Y-axis, the new machine can flexibly handle a variety of workpieces across a distance between centers of either 700 or 1250.
The ERGO*line* X is our new operation panel for intuitive and simple use regardless of the workpiece complexity or the experience of the operator. DMG MORI is proud to recommend the NLX 2500 2nd Generation to you.

NLX 2500 | 1250
2nd Generation



Automobiles

Outer race

ϕ95 mm (3.7 in.) × 200 mm (7.9 in.) <S50C>

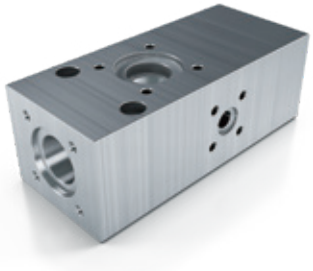
Construction machinery

Drive shaft

ϕ130 mm (ϕ5.1 in.) × 600 mm (23.6 in.) <S50C>

Hydraulic unit

Manifold block



35 mm (1.4 in.) × 40 mm (1.6 in.) × 100 mm (3.9 in.) <SUS303>

Chip disposal

P16

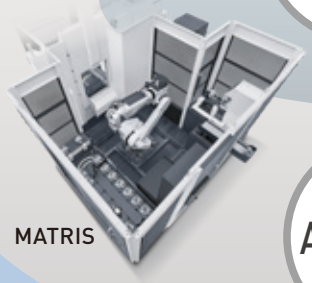
+ Ceramic coating & stainless cover as standard
+ Two-layer clean coolant tank
+ Built-in mist collector *zero*FOG

● The machine image includes option specifications.

Unlock the Future of Manufacturing Process Integration, Automation, DX for GX

Process integration

NLX 2500 2nd Generation



MATRIS

Automation

WH-AMR 10

Condition Agent

Service

my DMG MORI

CELOS Xperience

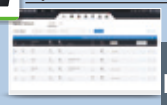
Machining

DMG MORI Digital Academy

Operator development

Machine installation & setup

Operator Workbook



Production planning

Technology Cycle

Programming

CELOS Club

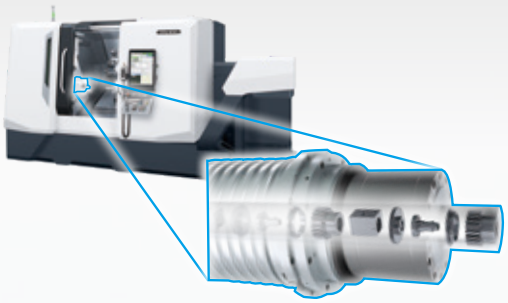
DMG MORI GATEWAY

ERGOline X (Hardware)

CELOS X (Software)

Process integration

P10



+ Large diameter bar feeder enables process integration for high mix production

Automation

P26

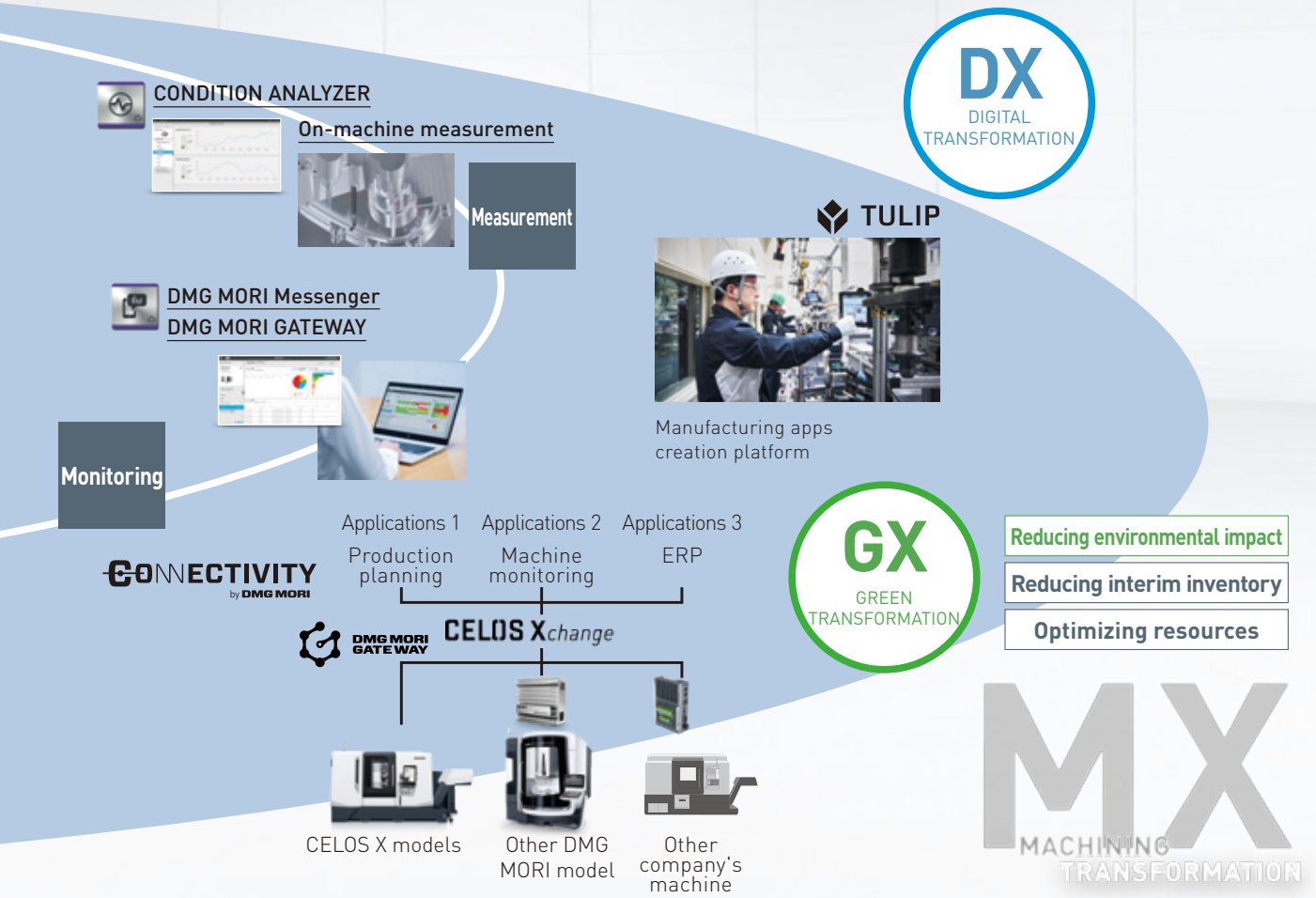
+ Machine uptime extended with automatic night & weekend operation

DMG MORI Machining Transformation

With Machine Transformation (MX), we are driving Green Transformation (GX) through process integration and automation powered by Digital Transformation (DX). Our goal is to create a lean and clean manufacturing environment in terms of operators, resources, energy, factory floor space, and time.

Machining Transformation (MX)

Process integration→Automation→GX
by DX



DX P30

+ Uses digital tools to improve work efficiency and create an operator-friendly shop floor

DX: Digital Transformation

GX P34

+ Enables energy efficient & sustainable production

GX: Green Transformation

Improved productivity and energy efficiency through process integration and automation lead to reduced CO_2 emissions

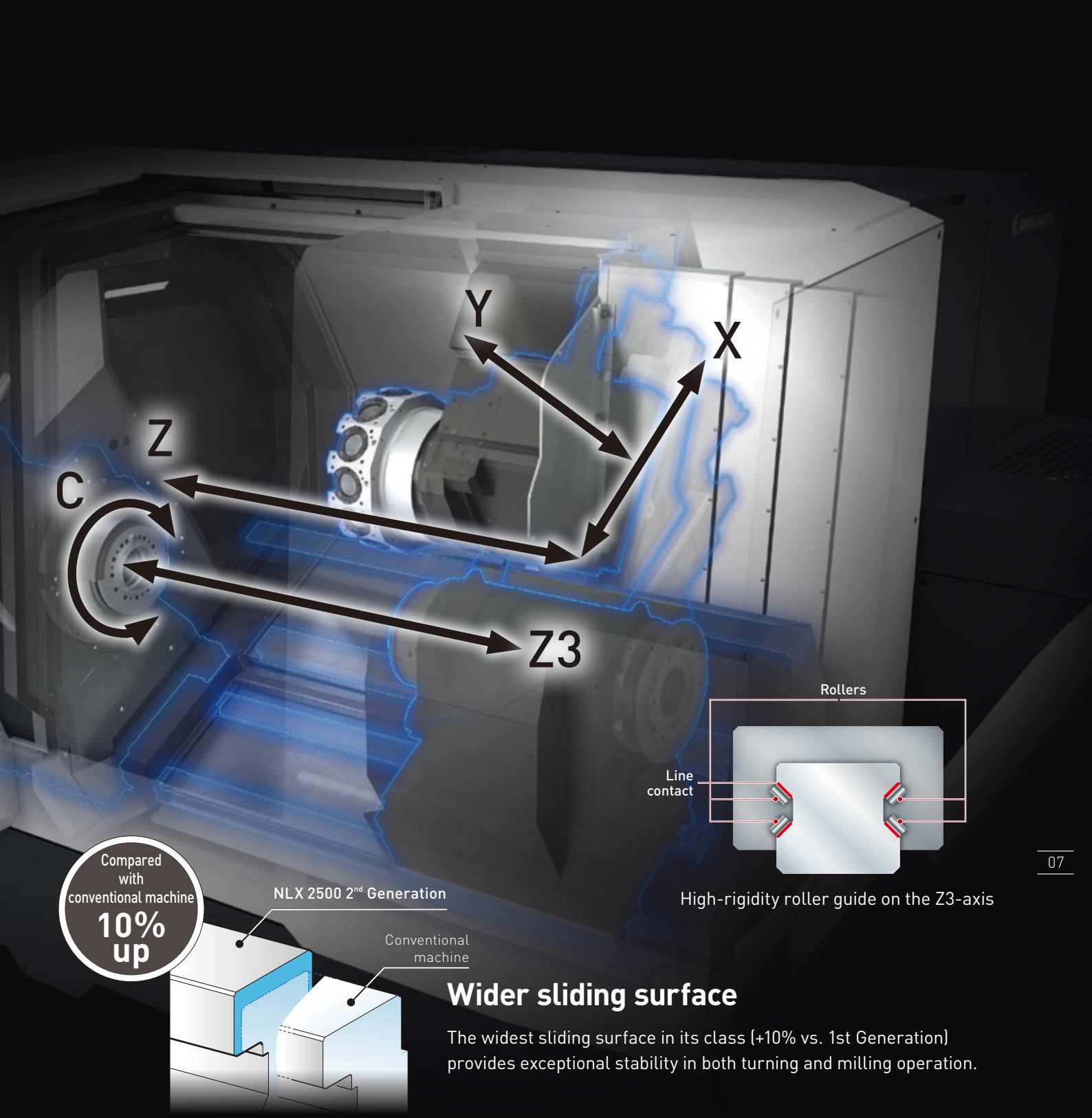
Reinforced Structure to Maximize Cutting Capability

The best cutting performance requires a solid foundation.
Therefore, we have utilized digital twins from the design stage together with the possibilities of our DMG MORI technology to optimize the machine structure and realize the highest rigidity.
This includes adopting sliding guideways on the X / Y / Z-axes for improved vibration damping and dynamic rigidity to support excellent cutting performance.

+ High rigidity bed with slideways for X / Y / Z axes, optimal for heavy cutting
+ Wider Z3-axis guideway and spacing between guides
  Dynamic rigidity improved by 1.3 times for the left spindle and 4.0 times for the right spindle (vs. 1st Generation)
+ High surface quality even with difficult-to-cut materials and intermittent cutting
+ Rapid traverse rate;
  X-axis 30 m/min (98.4 fpm), Y-axis 15 m/min (49.2 fpm), Z-axis 30 m/min (98.4 fpm)
  Z3-axis (Right spindle) 30 m/min (98.4 fpm) <Right spindle>
  Tailstock 7 / 20 m/min (23.0 / 65.6 fpm) (extend / retract) <Tailstock specification>

Excellent accuracy achieved through latest analysis technology

+ High accuracy & rigidity realized through digital twin simulations and thermal displacement analyses
+ Accelerated analysis cycles allowed for the intricate design adjustment



High-rigidity roller guide on the Z3-axis

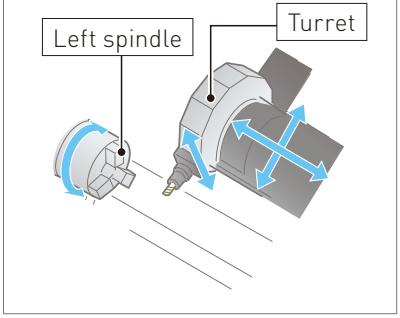
Compared with conventional machine **10% up**

Wider sliding surface

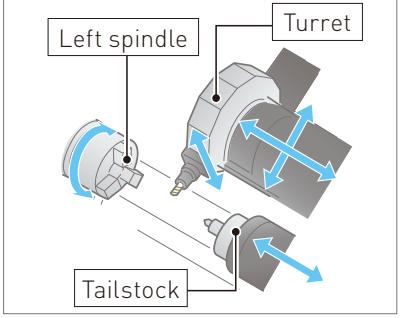
The widest sliding surface in its class (+10% vs. 1st Generation) provides exceptional stability in both turning and milling operation.

Variations

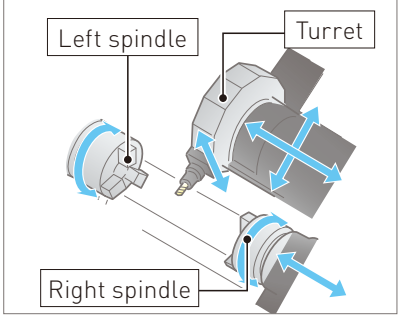
Y-axis specification



Y-axis + Tailstock specification



Y-axis + Right spindle specification

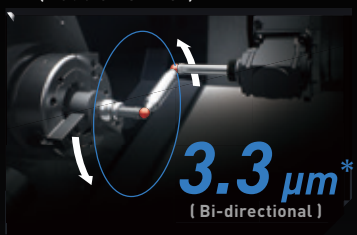


Precision Achieved through Uncompromising Commitment

While inheriting DMG MORI's turning center legacy, the NLX 2500 2nd Generation has employed the latest digital technology to accurately simulate and analyze performance and thermal displacement and has achieved outstanding accuracy. With the feed axis cooling function (standard) and Magnescale's highly accurate and reliable full closed loop control (Scale feedback, optional), superior positioning accuracy can be maintained over long periods of time.

DBB TEST (actual result)

DBB TEST
(Double Ball Bar)

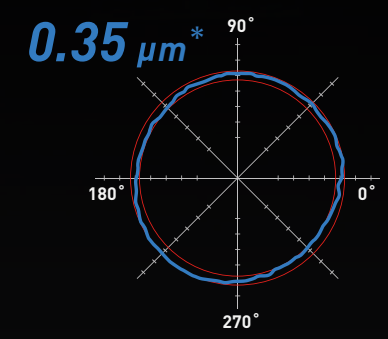


High precision of C-axis positioning

C-axis
indexing accuracy
4.1 arcsec*
(Indexing speed at 400min^{-1})

* MAP compensation by self-calibrating rotary encoder

Circularity (actual result)



* The cutting test results indicated in this catalog are provided as examples.
The results indicated in this catalog may not be obtained due to differences in cutting conditions and environmental conditions during measurement.

Optimized structure with excellent thermal stability

X / Y / Z axis ball screws' center cooling and double anchor support as standard

Machining accuracy has been further improved with the ball screw center and feedbox cooling function, as well as double-anchor supports at both ends to enhance cooling efficiency and rigidity.

Coolant circulation for casting parts

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

Full closed loop control <Scale feedback> (Option)

+ Superior precision with the Magnescale full closed loop control (Scale feedback)
+ Magnetic measuring system with a high resolution of 0.01 µm
+ Resistance to oil and condensation due to a magnetic detection principle
+ Impact resistance of 980 m/s^2 (38,582.7 in./s^2)
+ Vibration resistance of 250 m/s^2 (9,842.5 in./s^2)
+ Thermal expansion coefficient matched to machine's cast iron

MAP compensation (Standard)

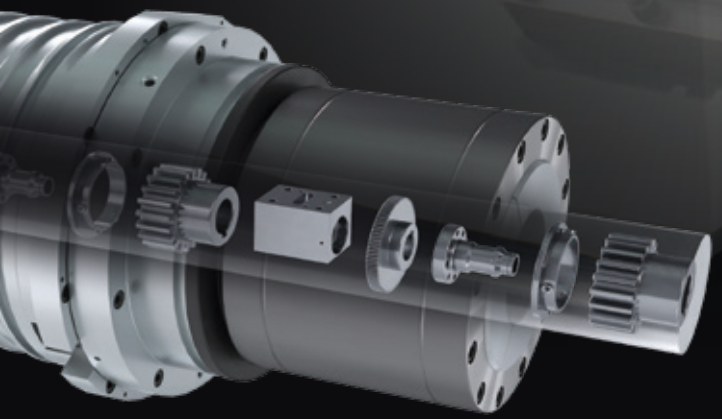
Magnescale's high-resolution laser scale (master encoder) compensates for spindle encoder errors and provides excellent accuracy.

Magnescale

Extensive Spindle Lineup of turnMASTER

Equipped with a reliable, high-torque turnMASTER that effectively suppresses thermal displacement, the two spindles on the NLX 2500 2nd Generation support multiple chuck sizes; the left spindle for 10- and 12-inch chucks, and the right spindle for 6-, 8-, and 10-inch chucks. The right spindle offers the same performance with the left spindle, which enables double-sided continuous machining. In combination with rotary tools and Y-axis, the NLX 2500 2nd Generation can cover everything from turning to secondary and back-side machining, or integrate different machining operations.

Left:
turnMASTER 10'' Generation 2
and turnMASTER 12"



turnMASTER spindle with large through-hole + bar feeder = process integration & automation

The next-generation turnMASTER spindle offers a large through-hole diameter of ϕ115 mm (4.5 in.) to enable customers to connect large-diameter bar feeders and integrate high-mix production processes. The right spindle turnMASTER10" S also has a spindle through-hole diameter of ϕ115 mm (4.5 in.), which is equivalent to the machining capacity of the left spindle.

turnMASTER for both spindles

+ Advanced labyrinth structure for frequent use of high-pressure coolant
+ Spindle air purge as standard
+ For blocking coolant and enhancing durability
+ 6-, 8-, 10-inch for the right spindle

Machining ability **1.25 times**

Max. rotational speed (left spindle)

Conventional machine		NLX 2500 2nd Generation
4,000 min^{-1}	1.25 times	5,000 min^{-1}

Max. rotational speed (right spindle)

Conventional machine		NLX 2500 2nd Generation
6,000 min^{-1}	1.17 times	7,000 min^{-1}

Spindle torque

Conventional machine		NLX 2500 2nd Generation
599 N•m (441.8 ft•lbf)	1.4 times	843 N•m (621.8 ft•lbf)

Spindle output

Conventional machine		NLX 2500 2nd Generation
18.5 kW (24.7 HP)	1.6 times	30 kW (40 HP)

Right: Slim-type turnMASTER for powerful performance with minimal interference

Spindle

		Left spindle		Right spindle		
Spindle type		turnMASTER Generation 2 10"	turnMASTER12"	turnMASTER6"	turnMASTER8" S	turnMASTER Generation 2 10" S
Chuck size	inch	10	12	6	8	10
Through-spindle hole diameter	mm (in.)	ϕ115 (ϕ4.5)		ϕ45 (ϕ1.7)	ϕ83 (ϕ3.2)	ϕ115 (ϕ4.5)
Max. spindle speed	min^{-1}	5,000	3,000	7,000	5,000	
Spindle output	kW (HP)	30 (40)	36 (48.0)	11 (15)	23 (30.7)	32 (42.7)
Spindle torque	N • m (ft • lbf)	843 (621.8)	1,273 (938.9)	95 (70.1)	207 (152.7)	577 (425.6)

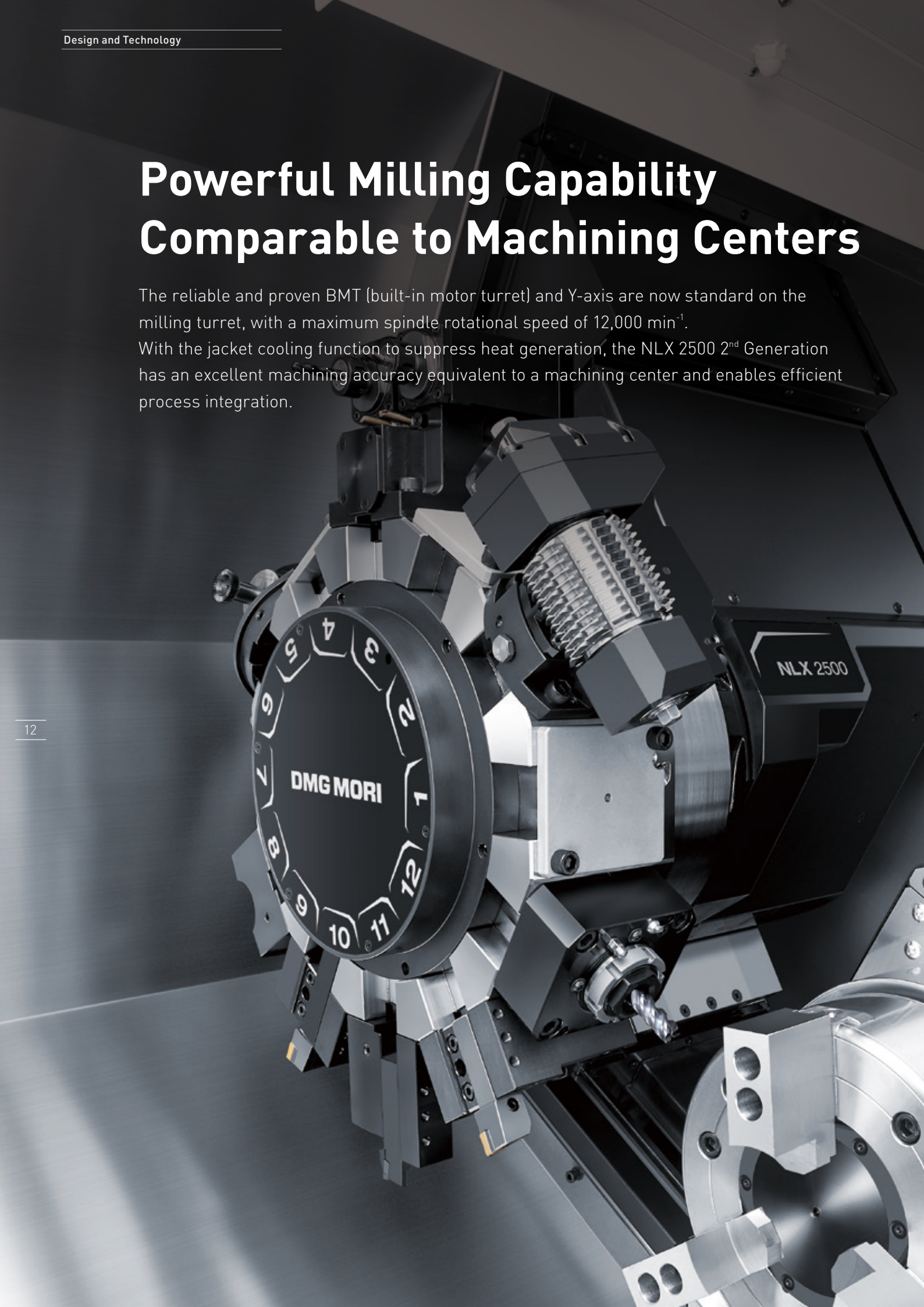
Workpiece size

		NLX 2500 2nd Generation		
Specifications		Y-axis specification	Y-axis + Tailstock specification	Y-axis + (Right spindle specification)
Max. turning diameter	mm (in.)	ϕ366 (ϕ14.4)*1		
Max. turning length	mm (in.)	708 (27.8) <NLX 2500 | 700>*2, 1,258 (49.5) <NLX 2500 | 1250>*2		
Bar work capacity	mm (in.)	ϕ105 (ϕ4.1)*3		

*1 With 35 mm (1.4 in.) tool overhang for O.D. turning
*2 Varies depending on specifications. For details, please contact DMG MORI's representative.
*3 Bar work capacity may be limited by the type of chuck / cylinder, etc.

Powerful Milling Capability Comparable to Machining Centers

The reliable and proven BMT (built-in motor turret) and Y-axis are now standard on the milling turret, with a maximum spindle rotational speed of 12,000 min^{-1}.
With the jacket cooling function to suppress heat generation, the NLX 2500 2nd Generation has an excellent machining accuracy equivalent to a machining center and enables efficient process integration.



Further evolved turret

Max. milling spindle speed

Conventional machine

10,000 min^{-1}

1.2 times

NLX 2500 2nd Generation

12,000 min^{-1}

Milling **1.4 times**

Milling spindle torque

Conventional machine

40 / 14 N • m
(29.5 / 10.3 ft • lbf)

2.15 times

NLX 2500 2nd Generation

86 / 56 N·m* (63.4 / 41.3 ft·lbf)
100 / 60 N·m* (73.8 / 44.3 ft·lbf) <High-torque>

* With BMT 60/108

Milling spindle output

Conventional machine

5.5 / 5.5 / 3.7 kW
(7.5 / 7.5 / 5.5 HP)
<3 min / 5 min / cont>

2.4 times

NLX 2500 2nd Generation

13 / 10 kW* (17.3 / 13.3 HP) <10%ED / cont>
15 / 15 kW* (20 / 20 HP) (10%ED / cont) <High-torque>

* With BMT 60/108

Powerful turret with wide machining area

Advanced Built-in-Motor Turret Technology

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

BMT Built-in Motor Turret

BMT:Built-in Motor Turret

Turrets available in three types

10, 12-station Turret

+ BMT60/108

High-speed

Max. rotational speed: 12,000 min^{-1}

Output: 13 / 10 kW (17.3 / 13.3 HP)

Torque: 86 / 56 N•m (63.4 / 41.3 ft•lbf)

High-torque

Max. rotational speed: 6,000 min^{-1}

Output: 15 / 15 kW (20 / 20 HP)

Torque: 100 / 60 N•m (73.8 / 44.3 ft•lbf)

20-station Turret

+ BMT40/78

High-speed

Max. rotational speed: 12,000 min^{-1}

Output: 13 / 10 kW (17.3 / 13.3 HP)

Torque: 40 / 40 N•m (29.5 / 29.5 ft•lbf)

12-station Turret

+ VDI40 Direct Drive

High-speed

Max. rotational speed: 12,000 min^{-1}

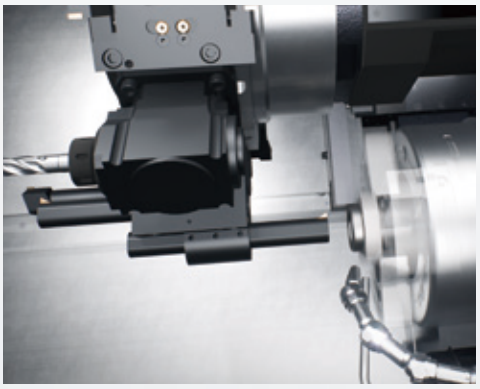
Output: 15 / 12 kW (20 / 16.0 HP)

Torque: 47.7 / 33.2 N•m (35.2 / 24.5 ft•lbf)

Repeatability

6 µm / 200 mm (7.9 in)

Extended tool overhang



The maximum tool overhang has been extended to 100 mm. (3.9 in)

Outer diameter

Conventional machine **50 mm (1.9 in)** ▶ **NLX 2500 2nd Generation 100 mm (3.9 in.)**

Right spindle

Conventional machine **60 mm (2.4 in)** ▶ **NLX 2500 2nd Generation 100 mm (3.9 in.)**

X- and Y-axis travel and bar work capacity

The Y-axis travel has been extended from the previous model to 120 mm and bar work capacity to ø105 mm, expanding the range of machinable workpieces.

Y-axis travel

Conventional machine

100 (±50) mm (3.9 (±1.9) in.)

▶

NLX 2500 2nd Generation

120 (±60) mm (4.7 (±2.3) in.)

Bar work capacity

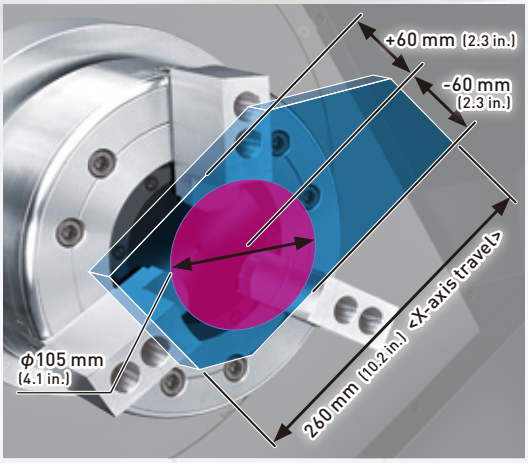
Conventional machine

ϕ80 mm (ϕ3.1 in.)

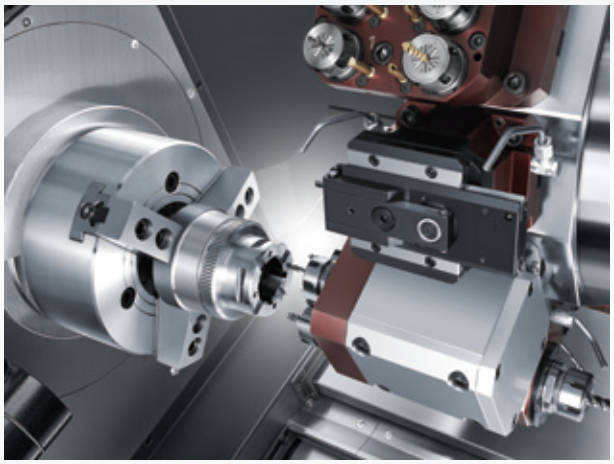
▶

NLX 2500 2nd Generation

ϕ105 mm (ϕ4.1 in.)



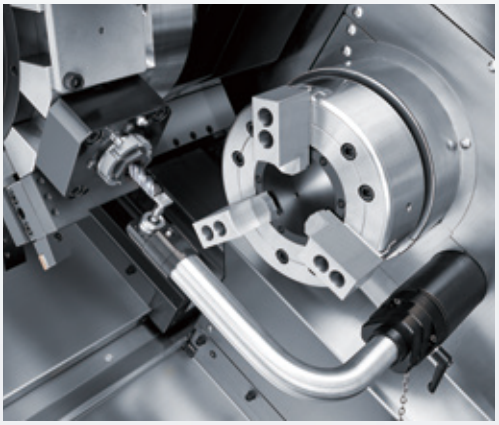
Multi-axis holder (Option)



Different tools can be mounted on one station, allowing for much greater capacity and flexibility in tool selection. This feature eliminates the need for turret indexing during tool changes and reduces cycle time. The increased Y-axis travel also expands the range of workpieces machinable.

In-machine tool presetter

Tilting type for the left spindle and detachable type for the right spindle are offered as standard. Detachable type and automatic tilting type are also available as options for the left spindle.



Unique Solutions against Chip, Coolant, Mist Troubles to Advance Process Integration & Automation

Chips, coolant, and mist generated during machining can cause severe machine troubles and are major hindrances to automation. The NLX 2500 2nd Generation adopt state-of-the-art technology to eliminate such problems, enabling long unmanned machine utilization for maximized automation effects.

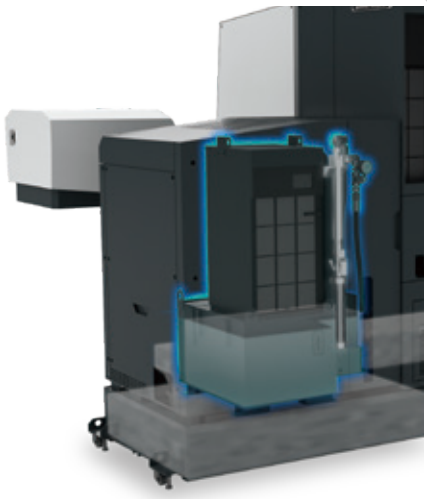
●3 machining troubles: Cutting chips, coolant, and mist hinder stable and continuous production and deteriorate the factory environment.

Two-layer clean coolant tank (Standard)

In addition to the main tank, a secondary coolant tank is equipped as standard to store filtered clean coolant.
The additional tank is located above the main tank, increasing capacity without extra floor space.
Options (e.g. ultra-high pressure coolant system, coolant chiller) are also available without additional floor space.

+ Coolant capacity: 687 L (181.4 gal.) <1.9 times x 1st Generation>*
+ Suppresses coolant temperature rise
+ Filtered clean coolant on top

＊For NLX 2500 | 700 2nd Generation



Built-in mist collector *zero*FOG available without additional floor space (Option)

CLEAN

+ Air quality comparable to household air purifiers
  Mist collection efficiency over 99.97% for 0.3 μm particles
+ Stable collection performance realized by filter clogging monitoring and automatic motor control*1

COMPACT

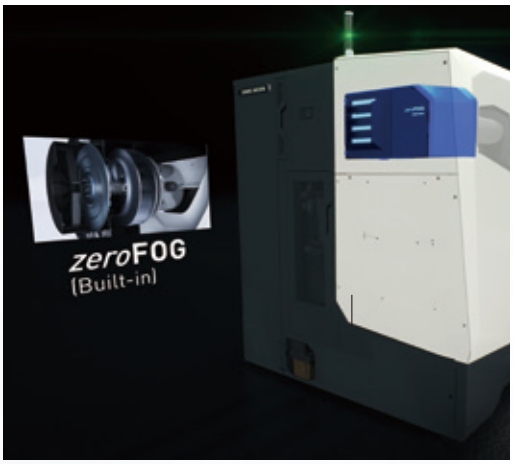
+ Attachable to the machine body*2
  No additional floor space necessary Unified design concept with the machine

High maintainability

+ Frequent filter cleaning no longer necessary.
  Automatic cleaning of the primary filter prevents filter clogging
+ Notification of filter exchange timing

ENERGY-SAVING

+ Contribution to SDGs: less energy consumption and carbon emission



Access here for the details of *zero*FOG

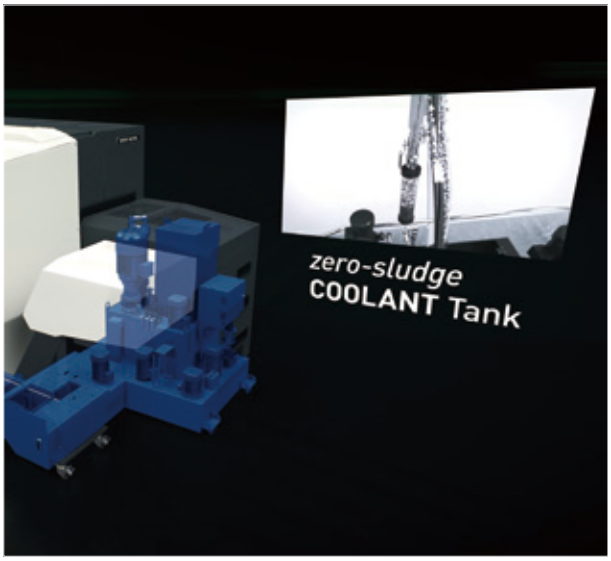
＊1 Airflow may decrease depending on operating conditions such as mist concentration, oil type, and machining details.
＊2 The method of mounting on the machine varies depending on the model and specifications.

*zero-sludge*COOLANT (Option)

Multiple coolant nozzles are arranged to stir coolant and efficiently collect fine casting sludge with a highly accurate cyclone filter.

+ Reduce cleaning work of the coolant tank dramatically
+ Prevent clogging of pipes / coolant nozzles and pump breakage
+ Expand coolant life

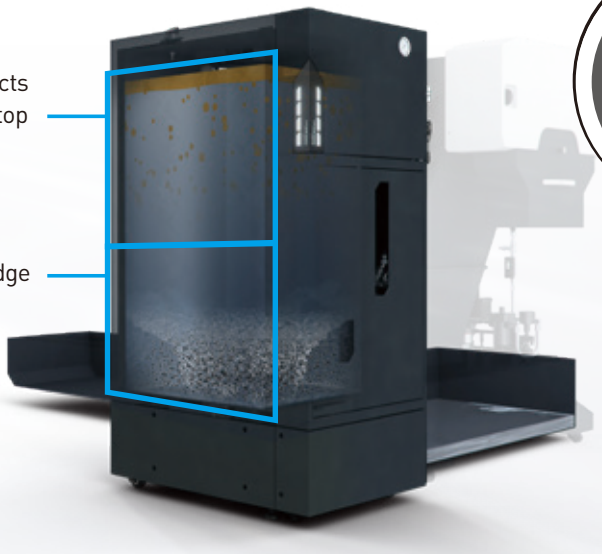
● Not compatible with oil-based coolant.



Access here for the video

*zero-sludge*COOLANT *pro* (Option)

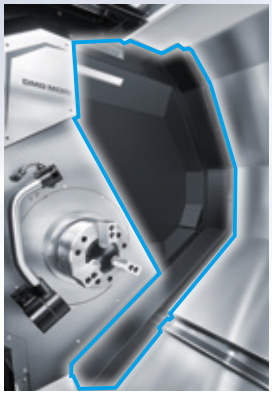
The newly developed vertical coolant tank is compact in size, energy-saving and offers high capacity. This makes it the optimal coolant solution for continuous operation of highly productive automation systems.



Access here for the video

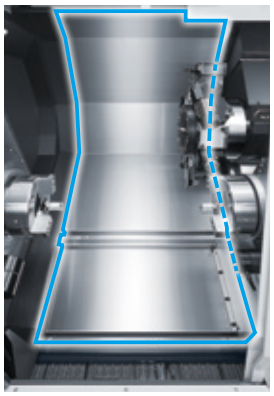
Ceramic coating (Standard)

Ceramic coating is applied to chip accumulation areas and supports efficient removal. This prevents chip buildup even during long-hour operation.



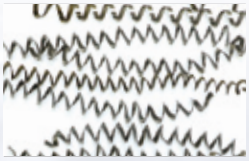
Stainless cover (Standard)

Stainless steel cover provides durability against direct contact with cutting chips.



High-pressure through-spindle coolant unit for up to 10.0 MPa (1,450 psi) <variable pressure> (Option)

+ Coolant pressure adjustable from 1.0 to 10.0 MPa (145 to 1,450 psi) for different tools
+ Pressure feedback and inverter control drastically reduce power consumption and coolant heat generation
+ Chip removal process optimized for each case

Material	Steel		
	Long	Short	Powdery
Chip form			
Hinge type + With box filter	○	○	△*1
Hinge type + Drum filter type	○	○	△*1
Hinge type (Aluminum)	–	–	–
Hinge type (Resin)	–	–	–
Scraper type	–	○	△*1
Magnet scraper type	–	○	△*1

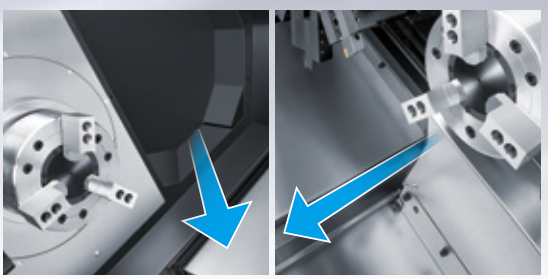
20 mm (0.8 in.)

*1 Fine chips may pass through the filter or conveyor and accumulate in the coolant tank. To avoid possible damage on machining accuracy, secondary filtration equipment may be recommended.
*2 Technology Cycle "Chip Breaking" recommended

- Please consult our sales representative if the chip length exceeds 200 mm (7.9 in.).
- [Chip size criteria] Powdery: minute particles / Short: 50 mm (2.0 in.) or less in length, ϕ40 mm (ϕ1.6 in.) or less in diameter (a lump of chips) / Long: over 50 mm (2.0 in.)

Chip flushing coolant

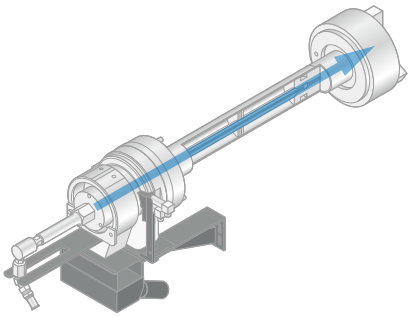
Chip flushing coolant from both sides improves chip removal efficiency.



Option Standard

Through-spindle coolant system (Option)

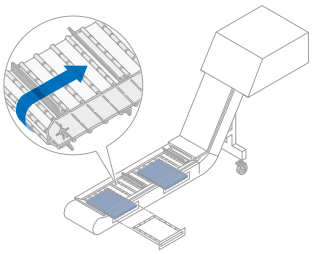
Coolant supplied through the center of the chuck removes chips generated during I.D. machining.



Chip conveyor (Option)

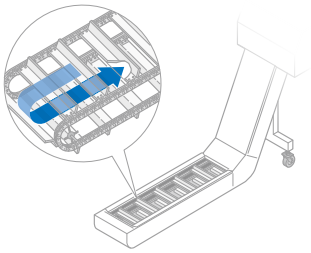
Handles various types of chips and ejects them in a highly efficient way.

Hinge type + With box filter



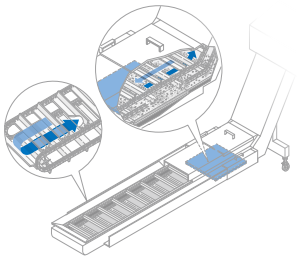
Box filter filtrates coolant and reduces chip contamination. For chips of various sizes.

Scraper type



A plate called scraper collects and discharges chips at the bottom of the chip conveyor. For short or powdery chips.

Magnet scraper type



Chips are collected with magnetic plates at the bottom of the tank. For fine magnetic chips such as castings.

○: Suitable △: Consideration required —: Not suitable

Cast iron (20 mm (0.8 in.))		Aluminum, non-ferrous metal (20 mm (0.8 in.))			Resin (20 mm (0.8 in.))
Short	Powdery	Long	Short	Powdery	Short
					
○	△*1	○	○	△*1	—
○	△*1	○	○	△*1	—
—	—	—	○	—	—
—	—	—	—	—	○*2
○	—	—	—	—	—
○	—	—	—	—	—

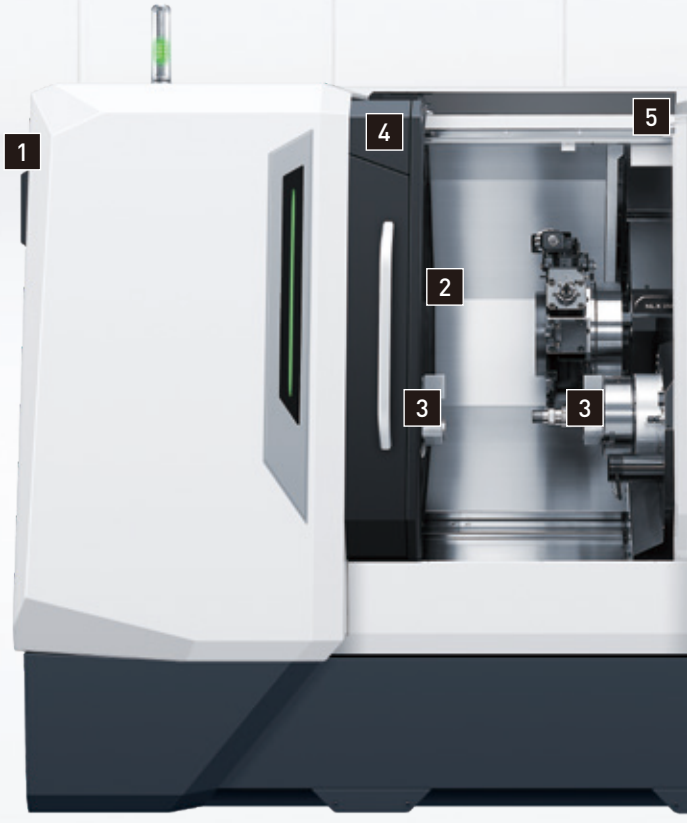
- The options table shows the general options when using coolant. Changes may be necessary if you are not using coolant, or depending on the amount of coolant, compatibility with machines, or the specifications required.
- Please select a chip conveyor to suit the shape of your chips. When using special or difficult-to-cut material (chip hardness HRC45 or higher) , please consult our sales representative.
- Chip conveyors are available in various types for handling chips of different shape and material. For details, please consult our sales representative.

Pursuit of Ergonomics and User-friendliness

The NLX 2500 2nd Generation is also designed to maximize operability and maintainability and enhance machine availability. Based on the extensive analysis of user feedback, we have increased the door opening width and improved the spindle accessibility. Since all the components are easily reachable for regular inspection, the operators can enjoy the maximum machine performance and a high level of work productivity at all times.

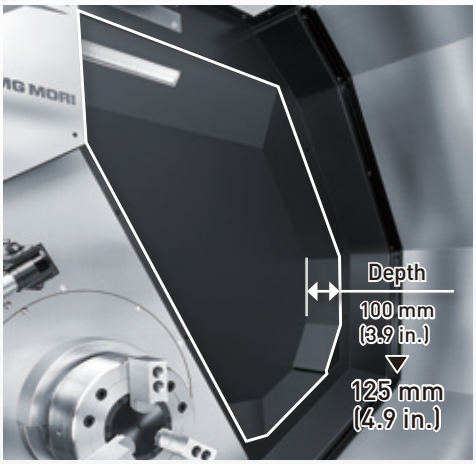
1 *zero*FOG (Option)

Easy filter replacement



2 Interference prevention pocket

A pocket on the chuck cover prevents tool interference. The pocket is wider and deeper than the 1st Generation <depth: 100 mm (3.9 in.) -> 125 mm (4.9 in.)>.



3 NC-CLAMP

+ Chuck clamping force and spindle center thrust adjustable on the operation panel
+ Chuck stroke visible on the operational panel
+ Reduced setup time for chucks and tailstock
+ Supports high-mix production
+ Program-based pressure check
+ Detects workpiece setting errors
+ Inching function as standard
+ Two chuck foot switches as standard

4 Cover optimized for chip and coolant management

The optimized cover prevents chips and coolant from leaking out of the machine, keeping the body clean at all times.

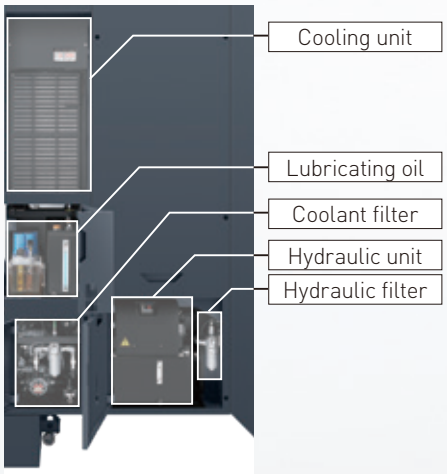
5 Servo automatic door (Option)

+ Door acceleration / deceleration controlled for safety and speed
+ Door can be stopped at any position by pressing a button, or automatically stopped at a pre-defined position. This feature keeps coolant and chips inside the machine during manual workpiece cleaning.
+ Push-open function *1: Door opens automatically when pushed in the moving direction
+ Retry function *2: Prevents machine stops due to collision detection alarms (e.g. chips caught on the door rail)

*1 For door opening only
*2 For door closing only

6 All maintenance equipment located at the rear side of the machine

For maximum operability and maintainability, all service equipment are located at the rear of the machine. With reduced lubricating oil consumption and a larger oil tank, there is less need for refills.



7 ERGO*line* X Touch with Superior Operability

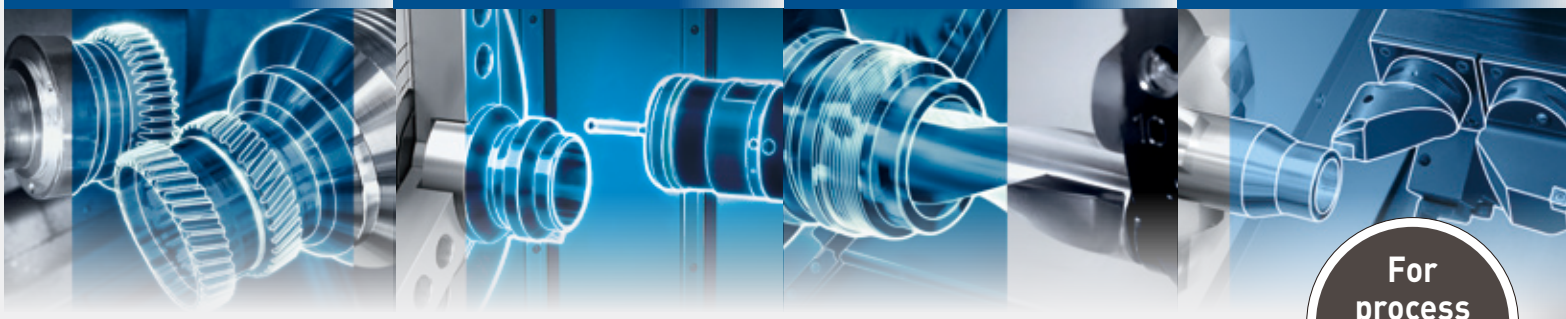
The movable*, swivel touch-screen operating panel can move 745 mm (29.3 in.) in both the left and right directions to ensure better accessibility to the spindle and the workpiece.

* NLX 2500 | 1250 2nd Generation only.

Complex Processing Made Simple & Quick DMG MORI Technology Cycles

Technology Cycles are the perfect solution for combining highly advanced simultaneous 5-axis milling machines, mill-turn machines and machining centers with state-of-the-art tools, measuring equipment, robots, sensors, and other peripheral technologies to boost customer productivity. Without the need for specialized machines, programs, or tools, customers can quickly start high-quality production in a simple and timely manner.

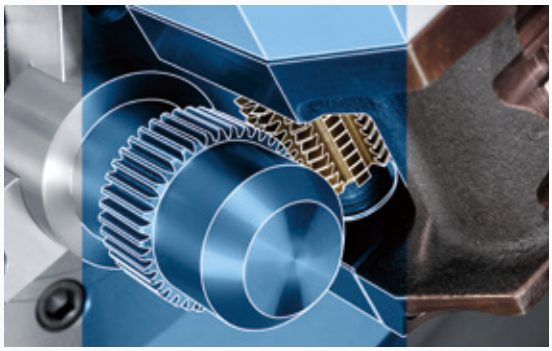
Shaping | Measuring | Monitoring | Handling

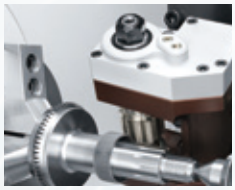


For process integration

Gear hobbing

Optimal programming achieves hobbing with a general-purpose machine

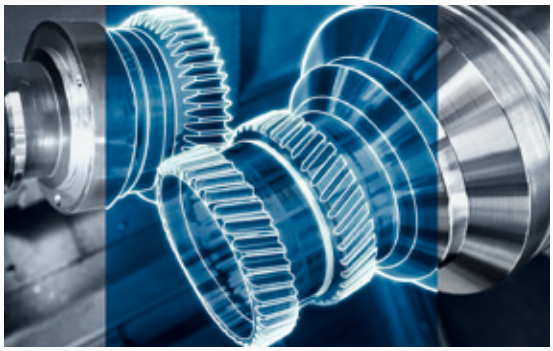




+ Hobbing program can be easily created by conversational input
+ Hob cutter's machining position can be changed, maximizing the tool life
+ Consolidation of machining operations into the general-purpose machine reduces setup time and enhances accuracy such as concentricity due to no setup change
+ ISO gear accuracy grade 8

gearSKIVING

High-speed gear cutting including internal teeth

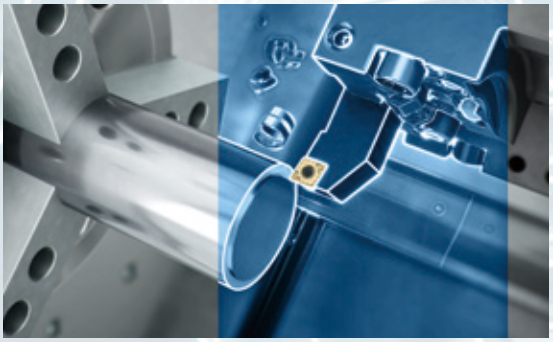


+ Can easily program a machining technique called gear skiving
+ Internal teeth that cannot be machined by hobbing can be cut
+ Consolidation of processing operations into the general-purpose machine reduces setup time and enhances accuracy such as concentricity due to no setup change
+ ISO gear accuracy grade 8

- Corresponding items differ for each model. For details, please consult our sales representative.
- The pictures are illustrations.

Chip Breaking

Effectively prevents chip problems by breaking chips into small pieces



Alternating speed

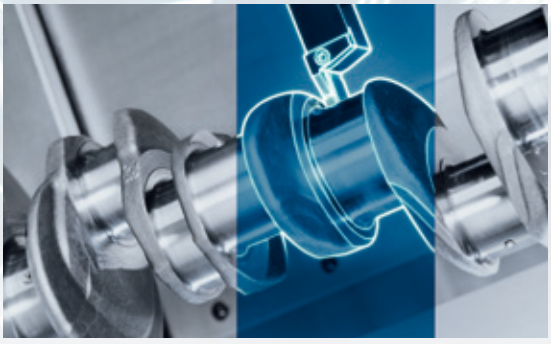
Stable machining in which chatter hardly occurs

Multi-threading 2.0

Cutting special thread

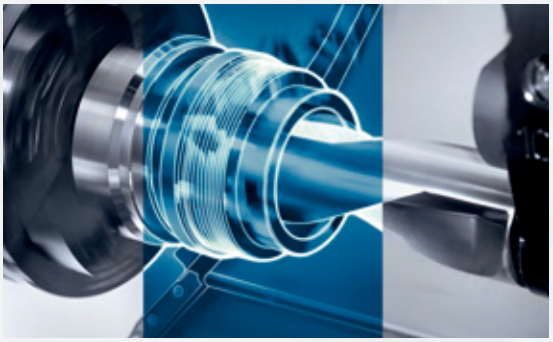
Excentric machining

Easy programming of excentric machining



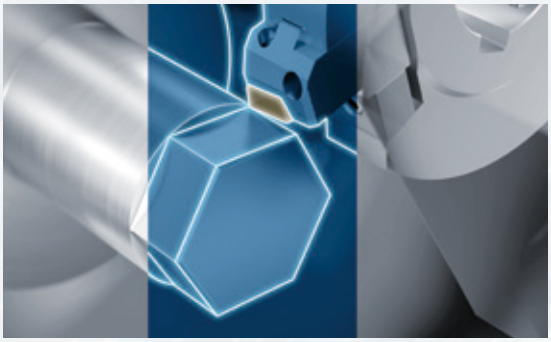
Easy tool monitoring

Monitoring load of spindle and traveling axes



Polygon Cutting

Highly efficient cutting of polygons



• The above is a partial list of supported Technology Cycles. For a list of all supported Technology Cycles, please refer to the specification details.

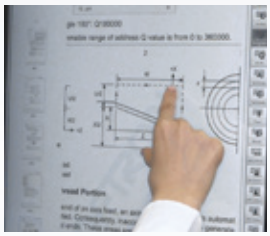
ERGO*line* X with CELOS X Smooth and Time-saving Operation

The refined ergonomic design ensures easy usage down to the smallest detail. The dustproof and waterproof design (IP54 rating) is ideal for factory environments and realizes comfortable and safe operation.

1 Large touch screen
Superior visibility and intuitive operation.

+ 10% larger screen and increased text size
+ All necessary information displayed on one screen for higher work efficiency
+ Remote access: machining programs on office PCs are visible on the shop floor as well
+ Can also be operated with touch pen *1

*1 Option



Electrostatic touch panel

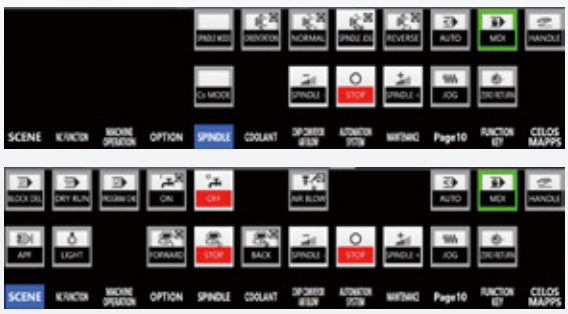
Can also be operated with gloves on

FANUC
+ Upper panel: Front 10°, Back 20°
+ Lower panel: 0 to 84° (adjustable in 7 steps at 12° each)

2 Hardware buttons that are easy to press Ideal for program input where accuracy is required.

+ Dustproof, waterproof and durable design
+ Optimized button ergonomics for comfort pressing

3 HYBRID BAR*2
Only displays the buttons that are necessary for the current operation. Prevents errors and improves workability.



Example of displayed buttons
+ Switches displayed buttons automatically to suit your current operation
+ LCD panel with comfortable push sensation
+ Synchronized with open programs on the touch screen

*2 FANUC only

SIEMENS

+ Upper panel: Front 0°, Back 30°
+ Lower panel: 10° - 85° (stepless adjustment)

4 Useful applications that reinforce your production processes

Operator Workbook

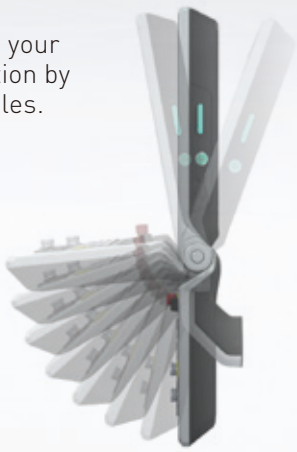
CELOS App for easy job processing from the office or factory floor

Application Connector

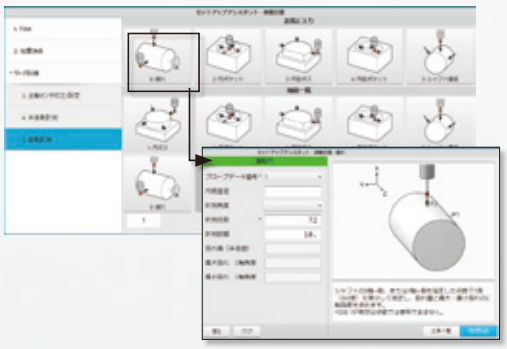
CELOS App to enable display and operation of other IT systems on the operational panel

5 Upper and lower panel can be adjusted to your optimal viewing angle

Operate the machine in your most comfortable position by adjusting the panel angles.



6 Simple input screen for smooth completion of setup



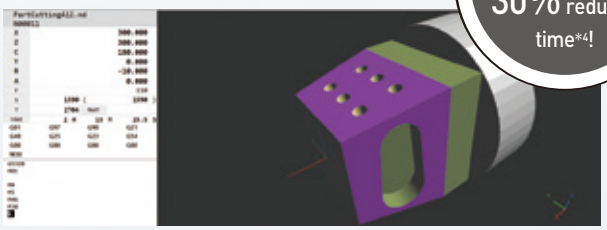
Setup page samples (MAPPS)

+ Easy-to-understand animations and diagrams guide you through the setup
+ For tool change, simply select a tool from the list
+ Enables anybody to safely perform tool change or measuring
+ Significantly reduces setup time

7 Drawing and complex machining simulations are processed in high speed.

+ CPU:Intel Core i5
+ Memory 32 GB
+ 6 GB program storage area
+ USB 2 ports

Compared with previous panel 30% reduced time*4!



Drawing simulation

*4 Based on actual results. Figure may differ depending on the machining program

Extensive Automation Solutions

The NLX 2500 2nd Generation can achieve full automation from material supply to finished part unloading. Below are our automation solutions to reduce spindle idle time, such as bar feeder specifications and workpiece unloader.

Bar feeder (Option)

The combination of workpiece unloader enables automation of machining of bar materials.

+ Bar work capacity: ϕ105 mm (ϕ4.1 in.)

Recommended accessories for bar feeder specification

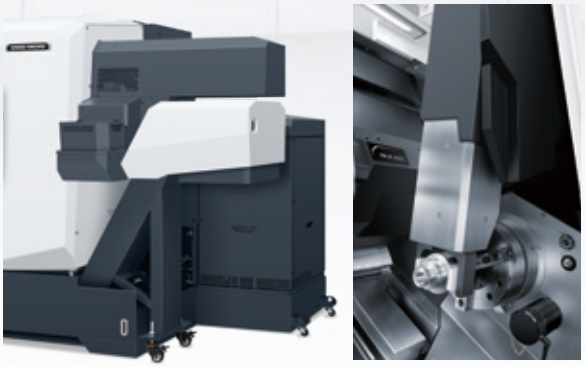
+ Bar feeder
+ Multi counter
+ Signal lamp
+ Guide bushing
+ Work stopper

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

Right-side workpiece unloader (Option)

Transport can be selected by hand gripper or bucket with servo drive on all axes to enable clamping and high-speed unloading in any position.

+ Applicable workpiece diameter: 105 mm (4.1 in.)
+ Applicable workpiece length: 250 mm (9.8 in.)
+ Max. transfer mass: 6.0 kg (13.2 lb.)



Left-side workpiece unloader (Option)

We have evolved the conventional parts catcher to allow easy adjustment by the customer, while enlarging the compatible workpiece size for use on both spindles.

+ Applicable workpiece diameter: 105 mm (4.1 in.)
+ Applicable workpiece length: 200 mm (7.9 in.)
+ Max. transfer mass: 4.0 kg (8.8 lb.)

● Not available when the steady rest is selected, because of interference.

GX Loader (Option)

Loader type				GX5	GX10T
Gantry loader	Max. travel speed	X-axis <hand up / down>	m/min (fpm)	180 (590.6)	90 (295.3)
		Z-axis <loader unit left / right>	m/min (fpm)	200 (656.2)	120 (393.7)
Loader hand	Model			Parallel hands, back end hands	Back end hands
	Max. transfer weight		kg (lb.)	5 × 2 (11 × 2)	10 × 2 (22 × 2)
	Applicable workpiece diameter		mm (in.)	ϕ40 - ϕ150 (ϕ1.5 - ϕ5.9)	ϕ40 - ϕ200 (ϕ1.5 - ϕ7.8)
	Applicable workpiece length		mm (in.)	20 - 120 (0.7 - 4.7)	20 - 150 (0.7 - 5.9)
Work stocker	Number of pallet tables		Pallet	14, 20, 26	10, 20
	Max. loading capacity		kg (lb.)	35 (77) / Pallet	75 (165) / Pallet
	Max. workpiece stacked height		mm (in.)	470 (18.5)	

● Depending on the shape of the workpiece, it may not be possible to machine with standard specifications. For details, please consult our sales representative.
● Please consult our sales representative in the case that a workpiece diameter is less than ϕ40 mm (ϕ1.6 in.), or a workpiece length is less than 20 mm (0.8 in.).

MATRIS Light

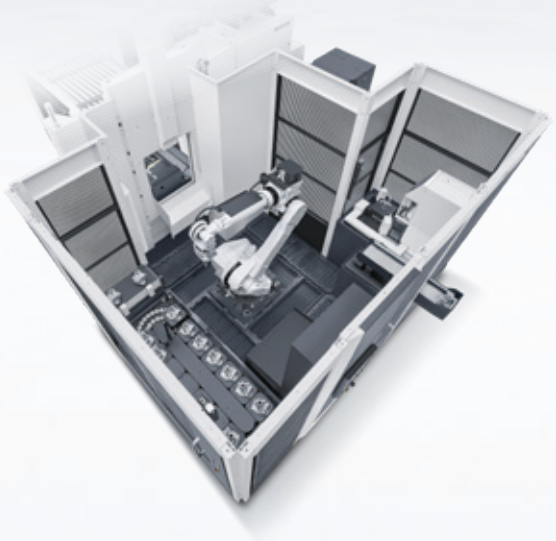
+ Fence-less and space-saving cooperative robot system
+ Easy-to-use HMI powered by plug-in software
+ Robot cart size of 600 × 900 mm (23.6 × 35.4)*, equivalent to the operator's workspace: no need for additional space
+ Maximum payload: 10 kg (22 lb.) <MATRIS Light10>

* Excluding protruding parts

Access here for the details of MATRIS Light

MATRIS

+ Flexible automation system for high-mix, variable-volume production
+ Standardized peripherals ensure easy customization to meet your specific needs
+ Job order system allows simple operation without programming
+ Seamless system management with MATRIS controller



WH-AMR 10

+ Collaborative robot
+ Guideless, fenceless, cableless
+ Automates shop floor logistics
+ Add-on to existing machines possible
+ Stable travel even on steps <up to 35 mm (1.4 in.)>
+ Arm positioning accuracy: ±1 mm (±0.04 in.)

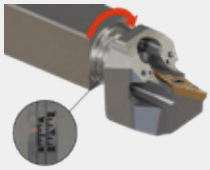
Access here for the video

DMG MORI Qualified Products
One-stop Service for Various Needs

The DMG MORI Qualified Products (DMQP) program is designed to certify peripherals that meet DMG MORI standards in quality, performance and maintainability. DMG MORI is your single-source supplier for customer-optimized peripheral equipment, including all connection and setup work. DMQPs come with the same 2-year warranty as our machine tools.

Turning tool

Multi-threading tool



Multi-axis holder

Chuck

Super-high pressure coolant system

Coolant

DMQP: DMG MORI Qualified Product

DMG MORI QUALIFIED PRODUCT

Tool setting

Shrink fit system

Tool presetter

Automation

Bar feeder

Robot system

Pneumatic equipment

Air dryer

Air compressor

Multi dry filter

Digital Solutions to Promote the Digital Transformation of Your Shop floor

DMG MORI' s digital solutions visualize production-related information and eliminate inefficient work. The power of digital technology supports workers on the shopfloor, improving overall productivity and promoting work style innovation.

CELOS Club

It is a standard service available for 3 years after machine delivery.

CELOS Club connects DMG MORI and customers via a network, enabling machine monitoring, preventive maintenance, and remote troubleshooting.

DMG MORI Messenger Secured Connection (4G)

Real-time machine operation monitoring
Monthly reports to maximize uptime

+ Easy to view machine operation rate, cycle time, machining results, and alarm history
+ Real-time data accessible from PCs, tablets, and smartphones
+ E-mail notifications of job completion and alarms

Preventive Maintenance Call

Constant critical alarm monitoring to prevent troubles in advance

+ DMG MORI's service engineers remotely collect and analyze your machine operation data
+ Critical alarms and trends monitored for early signs of machine troubles
+ DMG MORI's service engineers call customers for early signs and preventive measures

NETSERVICE

Quick recover from any problems

+ DMG MORI's service engineers can access your machine and check troubles remotely
+ Quick and accurate understanding of your machine status to drastically reduce downtime

Robust security

Securely connect machines to the network and prevent problems and accidents caused by cyber attacks.

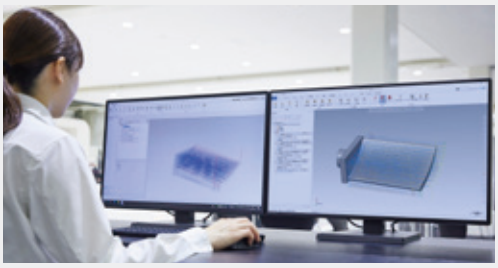
+ Only executes programs registered in the whitelist to prevent malicious programs
+ Prevents virus infection through machine bodies by blocking the execution of malicious programs in the first place

Whitelist security software

Digital Transformation of programming Program Creation in CAD / CAM

+ Ideal for machining complex shapes with 5-axis machines and mill-turn centers
+ Toolpath optimization increases machining efficiency and accuracy
+ Post processor translation ensures easy programming with different NC controls
+ DMG MORI proposes the optimal CAM for each customer's needs

hyperMILL Mastercam SIEMENS NX CAM-TOOL



CELOS DYNAMICpost *1

Access here for the video

Post Processor / NC Simulation / Cutting Force Optimization integrated in one software Reliable bridge between CAM and machine tools

+ DMG MORI post processors maximize machine capacity
+ Interference check for safe and secure processing
+ Cutting force optimization reduces cutting time by 20%*2 and tool breakage during roughing
+ Free trial available

*1 Option
*2 Listed figures may not be achieved depending on the type of machining.

TULIP

Access here for the detail of TULIP

Supports the digitization of your factory. Eliminates all redundancies from your shopfloor.

+ Easily create work procedure manuals with applications and make your shopfloor paperless
+ Real-time visualization of on-site production processes
+ Linkage with existing internal systems to manage data in one place

Condition Agent

Predictive maintenance monitoring by AI for feed shafts, spindles, ATC, and APC

+ Detects potential issues in advance with DMG MORI' s data library and AI
+ Diagnoses and visualizes machine aging to minimize downtime by scheduled maintenance
+ Reduces maintenance costs through early detection of bearing defects
+ Ready in 60 min., same-day diagnostics available

Network Construction and Connection Services for Factories DMG MORI GATEWAY

DMG MORI GATEWAY is a one-stop service for hardware installation, network setup, and cloud connection tailored to customers' machine setup and network environment.
Through the IoT integration of machines and equipment, customers can advance the digital transformation (DX) on the shop floor with operation monitoring, NC program transfers, and seamless data sharing for tool and production management systems.

DMG MORI GATEWAY

Connectable to third-party machines and peripherals

Data stored in the DMG MORI cloud

Shop floor network built by DMG MORI engineers

Remote monitoring of network and machine status.
Instant notification in case of an alarm

Your Contact for After-sales and Service: *my* DMG MORI

Access here for the video

my DMG MORI is a web-based platform that facilitates communication between customers and DMG MORI during repair and maintenance work. Unlike phone calls, the digital communication allows both parties to exchange detailed information. You can also view the updated status and history anytime, anywhere.

MORE SERVICE

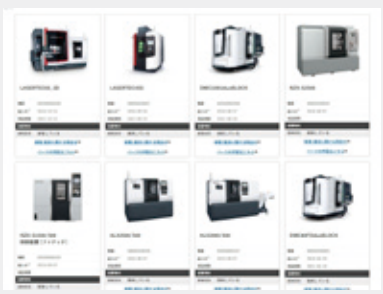
+ No queue:
  Simple online problem description
+ Pre-filled service inquiries: Send machine details, photos or videos
+ Immediate processing:
  The "right" service expert will process the inquiry with priority

MORE KNOWLEDGE

+ Full machine history: All machine events are retrievable in a structured format
+ All documents digital: Library for technical and commercial documents available
+ Real-time access to processing status: More transparency for service and spare part inquiries

MORE AVAILABILITY

+ Free access, 24/7:
  From anywhere, at any time
+ Your portal, your rules:
  The customer controls who sees what
+ On any device :
  Computer, Smart-phone or via CELOS



For Sustainable Production

DMG MORI is making every effort to reduce power consumption and CO_2 emissions and achieve energy-efficient production. Our initiatives for process integration, automation and DX are designed for an energy-saving, sustainable shop floor. Having achieved the SBT certification* in 2021, we are now set to reduce carbon footprint of the entire supply chain.

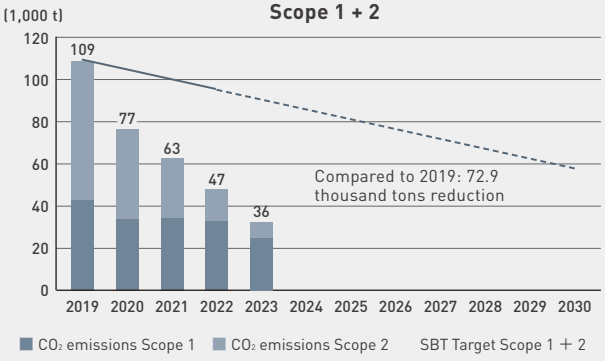
AREDITED BY SBT*

SCIENCE BASED TARGETS
DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

Carbon footprint reduction targets by 2030

2030	2050
Scope 1 and Scope 2 ▲ 46.2% (Based on base year 2019, total emission volume base)	▲ 90% (Total of Scope 1, Scope 2 and Scope 3)
Scope 3 ▲ 27.5% (Based on base year 2019, total emission volume base)	

Carbon footprint trend (SBT target value ratio)



* Abbreviation for Science Based Targets. Greenhouse gas emissions reduction targets set by companies for the next 5-15 years in accordance with the levels required by the Paris Agreement (limit global temperature increase to below 2 °C or 1.5 °C compared to pre-industrial levels).

Scan the QR code for DM MORI's approach towards sustainability

Energy saving achieved by GREENMODE functions and higher machine performance

Besides the GREENMODE functions, higher machine performance contributes to shorter machining time and less power consumption.

Higher machine performance

Optimal discharge pressure for each tool realizes energy-saving high pressure applications with low heat generation

+ Adjustable pressure <1.0 to 10.0 MPa (145 to 1,450 psi)> *1 for each tool
+ Pump speed control contributes to energy savings
  (Conventional machine: pressure fixed for all tools, pump speed constant)

*1 Option

GREENmode

GREEN monitoring

+ Visualize power consumption and CO_2 emission amount

GREEN device

+ High-brightness LED light
+ Inverter-equipped hydraulic pump

GREEN idle reduction

+ Shut off the power of the servo motor, spindle and coolant pump at a time of machine stop
+ Turn off the operation panel screen when a machine is not in operation for a certain time

GREEN control

+ Quicken standard M codes
+ Simultaneous acceleration / deceleration of the spindle and feed axes
+ Inverter-controlled coolant supply

Reduced machining time and energy consumption by process integration

Conventional process (turning centers × 1, 2 processes, vertical Machining Center × 1, 1 processes) Cycle time

Process integration with NLX 2500 2nd Generation (NLX 2500 2nd Generation x 1, 2 processes) Cycle time

For NLX 2500 | 700 2nd Generation

Power consumption and CO_2 emissions per workpiece

Conventional process (turning centers × 1, 2 processes, vertical Machining Center × 1, 1 processes) Cycle time

Process integration with NLX 2500 2nd Generation (NLX 2500 2nd Generation x 1, 2 processes)

	Conventional models	NLX 2500 2nd Generation
Power consumption (kWh)	10.0	8.8
CO_2 emissions (kg-CO_2)	4.51	3.97

For NLX 2500 | 700 2nd Generation

Workpiece: gear shaft

- Power consumption and CO_2 emissions are calculated based on customer examples using 4-axis horizontal machining centers in conventional operations. The result may vary for different models and machining processes.
- CO_2 base emission factor:0.451 (kg-CO_2/kWh)

Annual CO_2 reduction

-1,890 kg (4,158 lb.) Equivalent to **63*** camphor trees

For NLX 2500 | 700 2nd Generation

When operating a machine for 2,000 hours to produce 3,500 parts

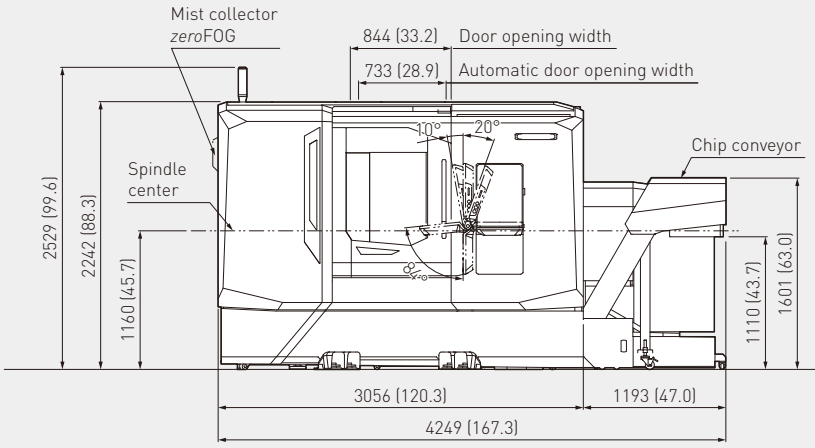
*CO_2 absorption per camphor tree: 30 kg (66 lb.) per year

Machine size

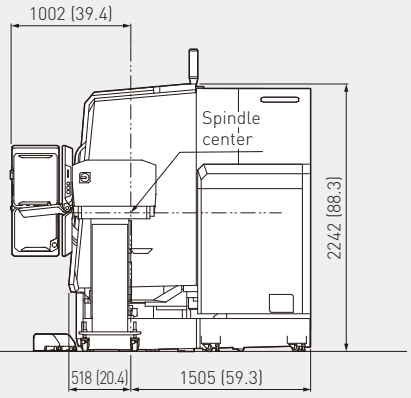
mm (in.)

NLX 2500 | 700 2nd Generation (FANUC F31iB Plus)

Front view



Side view



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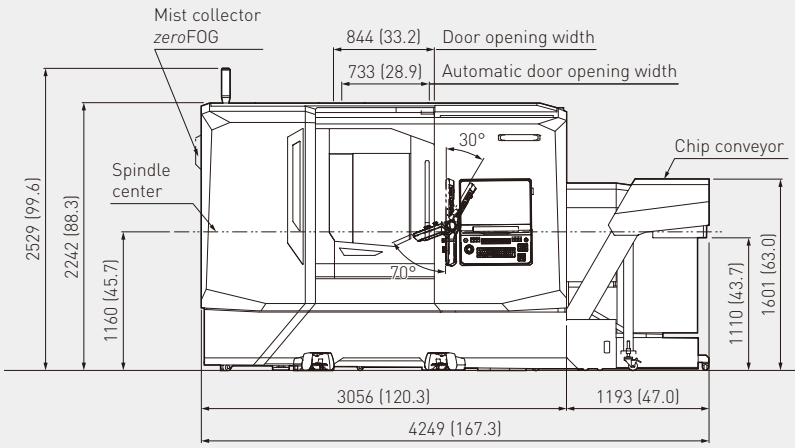
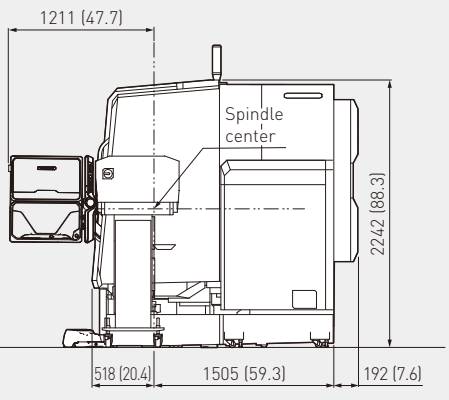
mm (in.)

NLX 2500 | 700 2nd Generation (SIEMENS SINUMERIK ONE)

Front view



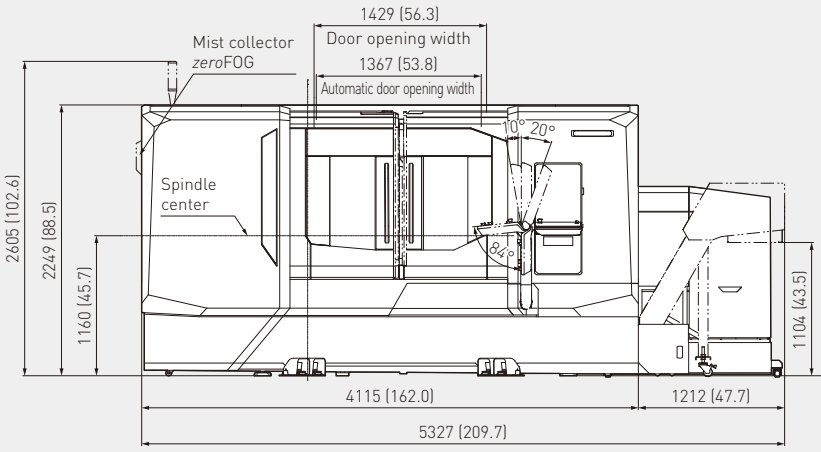
Side view



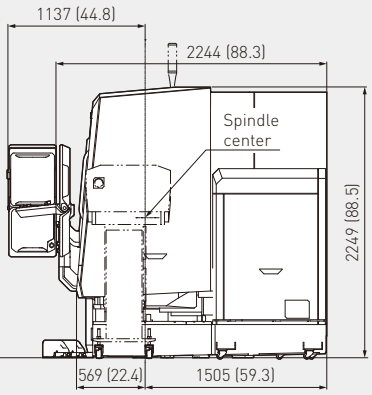
mm (in.)

NLX 2500 | 1250 2nd Generation (FANUC F31iB Plus)

Front view



Side view



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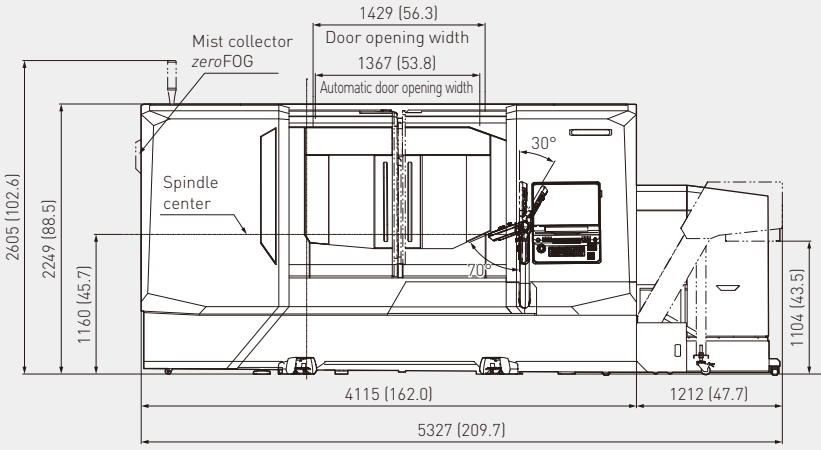
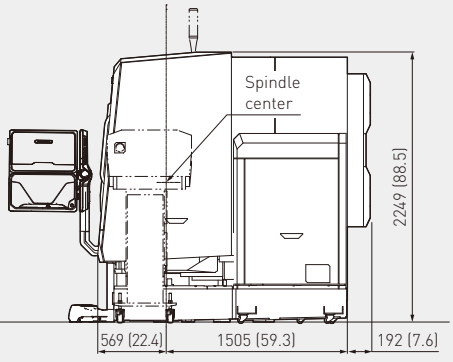
mm (in.)

NLX 2500 | 1250 2nd Generation (SIEMENS SINUMERIK ONE)

Front view



Side view



Machine specifications
(FANUC F31iB Plus)

			NLX 2500 2nd Generation		
Basic specification			T MC LS Y		
Optional specifications			—	TS	RS
Capacity					
Swing over bed		mm (in.)	945 (37.2) <interference with front cover:660 (25.9)>		
Swing over cross slide		mm (in.)	760 (29.9)		
Max. turning diameter*1 *2		mm (in.)	366 (14.4)*1, 356 (14.0)*2, 406 (15.9) <12-station VDI>, 278 (10.9) <20-station Turret>		
Max. turning length		mm (in.)	708 (27.8)		708 (27.8), 686 (27.0) <Right spindle through-hole ϕ83 mm (ϕ3.2 in.)> 666 (26.2) <Right spindle through-hole ϕ115 mm (ϕ4.5 in.)>
Bar work capacity*3		mm (in.)	105 (4.1)		
Travel					
X-axis travel		mm (in.)	260 (10.2)		
Y-axis travel		mm (in.)	±60 (±2.3)		
Z-axis travel		mm (in.)	795 (31.2)		
Right spindle travel (Z3-axis)		mm (in.)	—		734 (28.8)
Left spindle					
Max. Spindle speed*4		min-1	5,000, 3,000 <High torque>		
Spindle nose			JIS A_2-8		
Right spindle					
Max. Spindle speed*4		min-1	—		7,000 5,000*5 *6
Spindle nose			—		JIS A_2-5 JIS B 6109-2 - No.5*5 JIS B 6109-2 - No.8*6
Turret					
Number of tool stations			12 <BMT60, VDI40 Direct Drive>, 10 <BMT60>, 20 <BMT40>		
Shank height for square tool		mm (in.)	25 (1.0) <BMT60>, 20 (3/4) <BMT40, VDI40 Direct Drive>		
Max. milling spindle speed		min-1	12,000 <BMT60, VDI40 Direct Drive, BMT40>, 6,000 <BMT60> <High torque>		
Feedrate					
Rapid traverse rate	X-axis	mm/min (ipm)	30,000 (1,181.1)		
	Y-axis	mm/min (ipm)	15,000 (590.6)		
	Z-axis	mm/min (ipm)	30,000 (1,181.1)		
	Tailstock spindle	mm/min (ipm)	—	7,000 (275.6) <extend> 20,000 (787.4) <retract>*7	—
	Z3-axis	mm/min (ipm)	—		30,000 (1,181.1)
Tailstock					
Tailstock travel		mm (in.)	—	734 (28.9)	—
Taper hole of tailstock spindle			—	MT5 <Live centers> MT3 <Built-in center> MT4 <Built-in center>	—
Motors					
Left spindle drive motor (15%ED / 40%ED / cont)		kW (HP)	30 / 22 / 22 (40 / 30 / 30), 36 / 30 / 25 (48.0 / 40 / 33.3) <10%ED / 30 min / cont> <High torque>		
Right spindle drive motor (10%ED / 25%ED / 40%ED / cont)		kW (HP)	—		11 / 11 / 11 / 7.5 (15 / 15 / 15 / 10) 23 / 20 (30.7 / 26.7) (40%ED / cont)*5 32 / 28 / 27 / 25 (42.7 / 37.3 / 36.0 / 33.3) (15%ED / 25%ED / 40%ED / cont)*6
Milling spindle drive motor		kW (HP)	13 / 10 (17.3 / 13.3) <10%ED / cont> <BMT60 High speed, BMT40> 15 / 15 (20 / 20) <10%ED / cont> <BMT60 High torque> 15 /12 (20 / 16.0) (25%ED / cont) <VDI40 Direct Drive>		
Machine size					
Machine height		mm (in.)	2,242 (88.3)		
Floor space (Width × Depth)		mm (in.)	4,249 × 2,023 (167.3 × 79.6) <Including right-discharge chip conveyor, excluding operational panel>		
Mass of machine		kg (lb.)	7,600 (16,720)	7,900 (17,380)	8,400 (18,480)

∗1 With 35 mm (1.3 in.) tool overhang for O.D. turning
∗2 With 40 mm (1.5 in.) tool overhang for O.D. turning
∗3 Depending on the chuck / cylinder used and its restrictions, it may not be possible to reach full bar work capacity.
∗4 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.
∗5 Through-spindle hole diameter 83 mm (3.2 in.)
∗6 Through-spindle hole diameter 115 mm (4.5 in.)
∗7 Retraction speed is limited to 7 m/min (23.0 fpm) for the fixed steady rest, hydraulic steady rest (bolt-tightened), or hydraulic quill specifications.
● The information in this catalog is valid as of October 2024.

■: Standard □: Option
T: Turret **MC**: Milling **Y**: Y-axis
LS: Left spindle **RS**: Right spindle **TS**: Tailstock
● The right spindle specification (RS) is not equipped with a tailstock (TS).

			NLX 2500 | 1250 2nd Generation	
Basic specification			T MC LS Y	
Optional specifications			TS	RS
Capacity				
Swing over bed		mm (in.)	945 (37.2) <interference with front cover:660 (25.9)>	
Swing over cross slide		mm (in.)	760 (29.9)	
Max. turning diameter*1 *2		mm (in.)	366 (14.4)*1, 356 (14.0)*2, 406 (15.9) <12-station VDI>, 278 (10.9) <20-station Turret>	
Max. turning length		mm (in.)	1,258 (49.5)	1,258 (49.5) 1,236 (48.6) <Right spindle through-hole ϕ83 mm (ϕ3.2 in.)> 1,216 (47.8) <Right spindle through-hole ϕ115 mm (ϕ4.5 in.)>
Bar work capacity*3		mm (in.)	105 (4.1)	
Travel				
X-axis travel		mm (in.)	260 (10.2)	
Y-axis travel		mm (in.)	±60 (±2.3)	
Z-axis travel		mm (in.)	1,345 (52.9)	
Right spindle travel (Z3-axis)		mm (in.)	—	1,284 (50.5)
Left spindle				
Max. Spindle speed*4		min^{-1}	5,000, 3,000 <High torque>	
Spindle nose			JIS A_2-8	
Right spindle				
Max. Spindle speed*4		min^{-1}	—	7,000 5,000*5 *6
Spindle nose			—	JIS A_2-5 JIS B 6109-2 - No.5*5 JIS B 6109-2 - No.8*6
Turret				
Number of tool stations			12 <BMT60, VDI40 Direct Drive>, 10 <BMT60>, 20 <BMT40>	
Shank height for square tool		mm (in.)	25 (1.0) <BMT60>, 20 (3/4) <VDI40 Direct Drive> <20-station Turret>	
Max. milling spindle speed		min^{-1}	12,000 <BMT60, VDI40 Direct Drive, BMT40>, 6,000 <BMT60> <High torque>	
Feedrate				
Rapid traverse rate	X-axis	mm/min (ipm)	30,000 (1,181.1)	
	Y-axis	mm/min (ipm)	15,000 (590.6)	
	Z-axis	mm/min (ipm)	30,000 (1,181.1)	
	Tailstock spindle	mm/min (ipm)	7,000 (275.6) <extend> 20,000 (787.4) <retract>*7	—
	Z3-axis	mm/min (ipm)	—	30,000 (1,181.1)
Tailstock				
Tailstock travel		mm (in.)	1,284 (50.5)	—
Taper hole of tailstock spindle			MT5 <Live centers> MT3 <Built-in center> MT4 <Built-in center>	—
Motors				
Left spindle drive motor (15%ED / 40%ED / cont)		kW (HP)	30 / 22 / 22 (40 / 30 / 30), 36 / 30 / 25 (48.0 / 40 / 33.3) <10%ED / 30 min / cont> <High torque>	
Right spindle drive motor (10%ED / 25%ED / 40%ED / cont)		kW (HP)	—	11 / 11 / 11 / 7.5 (15 / 15 / 15 / 10) 23 / 20 (30.7 / 26.7) (40%ED / cont)*5 32 / 28 / 27 / 25 (42.7 / 37.3 / 36.0 / 33.3) (15%ED / 25%ED / 40%ED / cont)*6
Milling spindle drive motor		kW (HP)	13 / 10 (17.3 / 13.3) <10%ED / cont> <BMT60 High speed, BMT40> 15 / 15 (20 / 20) <10%ED / cont> <BMT60 High torque> 15 /12 (20 / 16.0) (25%ED / cont) <VDI40 Direct Drive>	
Machine size				
Machine height		mm (in.)	2,249 (88.5)	
Floor space (Width × Depth)		mm (in.)	5,327 × 2,074 (209.7 × 81.7)<Including right-discharge chip conveyor, excluding operational panel>	
Mass of machine		kg (lb.)	9,400 (20,680)	9,900 (21,780)

*1 With 35 mm (1.3 in.) tool overhang for O.D. turning
*2 With 40 mm (1.5 in.) tool overhang for O.D. turning
*3 Depending on the chuck / cylinder used and its restrictions, it may not be possible to reach full bar work capacity.
*4 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.
*5 Through-spindle hole diameter 83 mm (3.2 in.)
*6 Through-spindle hole diameter 115 mm (4.5 in.)
*7 Retraction speed is limited to 7 m/min (23.0 fpm) for the fixed steady rest, hydraulic steady rest (bolt-tightened), or hydraulic quill specifications.
● The information in this catalog is valid as of September 2025.

Machine specifications
(SIEMENS SINUMERIK ONE)

			NLX 2500 2nd Generation		
Basic specification			T MC LS Y		
Optional specifications			—	TS	RS
Capacity					
Swing over bed		mm (in.)	945 (37.2) <interference with front cover:660 (25.9)>		
Swing over cross slide		mm (in.)	760 (29.9)		
Max. turning diameter*1 *2		mm (in.)	366 (14.4)*1, 356 (14.0)*2, 406 (15.9) <12-station VDI>, 278 (10.9) <20-station Turret>		
Max. turning length		mm (in.)	708 (27.8)		708 (27.8), 686 (27.0) <Right spindle through-hole ϕ83 mm (ϕ3.2 in.)> 666 (26.2) <Right spindle through-hole ϕ115 mm (ϕ4.5 in.)>
Bar work capacity*3		mm (in.)	105 (4.1)		
Travel					
X-axis travel		mm (in.)	260 (10.2)		
Y-axis travel		mm (in.)	±60 (±2.3)		
Z-axis travel		mm (in.)	795 (31.2)		
Right spindle travel (Z3-axis)		mm (in.)	—		734 (28.8)
Left spindle					
Max. Spindle speed*4		min-1	5,000, 3,000 <High torque>		
Spindle nose			JIS A_2-8		
Right spindle					
Max. Spindle speed*4		min-1	—		7,000 5,000*5 *6
Spindle nose			—		JIS A_2-5 JIS B 6109-2 - No.5*5 JIS B 6109-2 - No.8*6
Turret					
Number of tool stations			12 <BMT60, VDI40 Direct Drive>, 10 <BMT60>, 20 <BMT40>		
Shank height for square tool		mm (in.)	25 (1.0) <BMT60>, 20 (3/4) <BMT40, VDI40 Direct Drive>		
Max. milling spindle speed		min-1	12,000 <BMT60, VDI40 Direct Drive, BMT40>, 6,000 <BMT60> <High torque>		
Feedrate					
Rapid traverse rate	X-axis	mm/min (ipm)	30,000 (1,181.1)		
	Y-axis	mm/min (ipm)	15,000 (590.6)		
	Z-axis	mm/min (ipm)	30,000 (1,181.1)		
	Tailstock spindle	mm/min (ipm)	—	7,000 (275.6) <extend> 20,000 (787.4) <retract>*7	—
	Z3-axis	mm/min (ipm)	—		30,000 (1,181.1)
Tailstock					
Tailstock travel		mm (in.)	—	734 (28.9)	—
Taper hole of tailstock spindle			—	MT5 <Live centers> MT3 <Built-in center> MT4 <Built-in center>	—
Motors					
Left spindle drive motor (15%ED / 40%ED / cont)		kW (HP)	30 / 22 / 22 (40 / 30 / 30), 36 / 30 / 25 (48.0 / 40 / 33.3) <10%ED / 30 min / cont> <High torque>		
Right spindle drive motor (10%ED / 25%ED / 40%ED / cont)		kW (HP)	—		11 / 11 / 11 / 7.5 (15 / 15 / 15 / 10) 23 / 20 (30.7 / 26.7) (40%ED / cont)*5 32 / 28 / 27 / 25 (42.7 / 37.3 / 36.0 / 33.3) (15%ED / 25%ED / 40%ED / cont)*6
Milling spindle drive motor		kW (HP)	13 / 10 (17.3 / 13.3) <10%ED / cont> <BMT60 High speed, BMT40> 15 / 15 (20 / 20) <10%ED / cont> <BMT60 High torque> 15 /12 (20 / 16.0) (25%ED / cont) <VDI40 Direct Drive>		
Machine size					
Machine height		mm (in.)	2,242 (88.3)		
Floor space (Width × Depth)		mm (in.)	4,249 × 2,215 (167.3 × 87.2) <Including right-discharge chip conveyor, excluding operational panel>		
Mass of machine		kg (lb.)	7,600 (16,720)	7,900 (17,380)	8,400 (18,480)

*1 With 35 mm (1.3 in.) tool overhang for O.D. turning
*2 With 40 mm (1.5 in.) tool overhang for O.D. turning
*3 Depending on the chuck / cylinder used and its restrictions, it may not be possible to reach full bar work capacity.
*4 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.
*5 Through-spindle hole diameter 83 mm (3.2 in.)
*6 Through-spindle hole diameter 115 mm (4.5 in.)
*7 Retraction speed is limited to 7 m/min (23.0 fpm) for the fixed steady rest, hydraulic steady rest (bolt-tightened), or hydraulic quill specifications.

● The information in this catalog is valid as of October 2024.

■: Standard □: Option
T: Turret **MC**: Milling **Y**: Y-axis
LS: Left spindle **RS**: Right spindle **TS**: Tailstock
● The right spindle specification (RS) is not equipped with a tailstock (TS).

			NLX 2500 | 1250 2nd Generation	
Basic specification			T MC LS Y	
Optional specifications			TS	RS
Capacity				
Swing over bed		mm (in.)	945 (37.2) <interference with front cover:660 (25.9)>	
Swing over cross slide		mm (in.)	760 (29.9)	
Max. turning diameter*1 *2		mm (in.)	366 (14.4)*1, 356 (14.0)*2, 406 (15.9) <12-station VDI>, 278 (10.9) <20-station Turret>	
Max. turning length		mm (in.)	1,258 (49.5)	1,258 (49.5) 1,236 (48.6) <Right spindle through-hole ϕ83 mm (ϕ3.2 in.)> 1,216 (47.8) <Right spindle through-hole ϕ115 mm (ϕ4.5 in.)>
Bar work capacity*3		mm (in.)	105 (4.1)	
Travel				
X-axis travel		mm (in.)	260 (10.2)	
Y-axis travel		mm (in.)	±60 (±2.3)	
Z-axis travel		mm (in.)	1,345 (52.9)	
Right spindle travel (Z3-axis)		mm (in.)	—	1,284 (50.5)
Left spindle				
Max. Spindle speed*4		min^{-1}	5,000, 3,000 <High torque>	
Spindle nose			JIS A_2-8	
Right spindle				
Max. Spindle speed*4		min^{-1}	—	7,000 5,000*5 *6
Spindle nose			—	JIS A_2-5 JIS B 6109-2 - No.5*5 JIS B 6109-2 - No.8*6
Turret				
Number of tool stations			12 <BMT60, VDI40 Direct Drive>, 10 <BMT60>, 20 <BMT40>	
Shank height for square tool		mm (in.)	25 (1.0) <BMT60>, 20 (3/4) <VDI40 Direct Drive> <20-station Turret>	
Max. milling spindle speed		min^{-1}	12,000 <BMT60, VDI40 Direct Drive, BMT40>, 6,000 <BMT60> <High torque>	
Feedrate				
Rapid traverse rate	X-axis	mm/min (ipm)	30,000 (1,181.1)	
	Y-axis	mm/min (ipm)	15,000 (590.6)	
	Z-axis	mm/min (ipm)	30,000 (1,181.1)	
	Tailstock spindle	mm/min (ipm)	7,000 (275.6) <extend> 20,000 (787.4) <retract>*7	—
	Z3-axis	mm/min (ipm)	—	30,000 (1,181.1)
Tailstock				
Tailstock travel		mm (in.)	1,284 (50.5)	—
Taper hole of tailstock spindle			MT5 <Live centers> MT3 <Built-in center> MT4 <Built-in center>	—
Motors				
Left spindle drive motor (15%ED / 40%ED / cont)		kW (HP)	30 / 22 / 22 (40 / 30 / 30), 36 / 30 / 25 (48.0 / 40 / 33.3) <10%ED / 30 min / cont> <High torque>	
Right spindle drive motor (10%ED / 25%ED / 40%ED / cont)		kW (HP)	—	11 / 11 / 11 / 7.5 (15 / 15 / 15 / 10) 23 / 20 (30.7 / 26.7) (40%ED / cont)*5 32 / 28 / 27 / 25 (42.7 / 37.3 / 36.0 / 33.3) (15%ED / 25%ED / 40%ED / cont)*6
Milling spindle drive motor		kW (HP)	13 / 10 (17.3 / 13.3) <10%ED / cont> <BMT60 High speed, BMT40> 15 / 15 (20 / 20) <10%ED / cont> <BMT60 High torque> 15 /12 (20 / 16.0) (25%ED / cont) <VDI40 Direct Drive>	
Machine size				
Machine height		mm (in.)	2,249 (88.5)	
Floor space (Width × Depth)		mm (in.)	5,327 × 2,266 (209.7 × 89.2) <Including right-discharge chip conveyor, excluding operational panel>	
Mass of machine		kg (lb.)	9,400 (20,680)	9,900 (21,780)

*1 With 35 mm (1.3 in.) tool overhang for O.D. turning
*2 With 40 mm (1.5 in.) tool overhang for O.D. turning
*3 Depending on the chuck / cylinder used and its restrictions, it may not be possible to reach full bar work capacity.
*4 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.
*5 Through-spindle hole diameter 83 mm (3.2 in.)
*6 Through-spindle hole diameter 115 mm (4.5 in.)
*7 Retraction speed is limited to 7 m/min (23.0 fpm) for the fixed steady rest, hydraulic steady rest (bolt-tightened), or hydraulic quill specifications.
● The information in this catalog is valid as of September 2025.

Standard & optional features (FANUC F31iB Plus)

●: Standard ○: Option —: not applicable

Basic specification		NLX 2500 2nd Generation T MC LS Y
Optional specifications		— / TS / RS
Spindle		
Left spindle	5,000 min-1: 30 / 22 / 22 kW (40 / 30 /30 HP) <15%ED / 40%ED / cont>	● / ● / ●
	3,000 min-1: 36 / 30 / 25 kW (48.0 / 40 / 33.3 HP) <10%ED / 30 min / cont> <High torque>	○ / ○ / ○
Right spindle	7,000 min-1: 11 / 11 / 11 / 7.5 kW (15 / 15 / 15 / 10 HP) <10%ED / 25%ED / 40%ED / cont> <Right spindle through-hole ϕ45 mm (ϕ1.7 in.)>	— / — / ●
	5,000 min-1: 23 / 20 kW (30.7 / 26.7 HP) <40%ED / cont> <Right spindle through-hole ϕ83 mm (ϕ3.2 in.)>	— / — / ○
	5,000 min-1: 32 / 28 / 27 / 25 kW (42.7 / 37.3 / 36.0 / 33.3 HP) <15%ED /25%ED / 40%ED / cont> <Right spindle through-hole ϕ115 mm (ϕ4.5 in.)>	— / — / ○
Turret		
10-station, bolt-tightened turret	12,000 min-1: 10 / 13 kW (13.3 / 17.3 HP) <10%ED / cont> <High-speed>	○ / ○ / ○
	6,000 min-1: 15 / 15 kW (20 / 20 HP) <10%ED / cont> <High torque>	○ / ○ / ○
12-station, bolt-tightened turret	12,000 min-1: 10 / 13 kW (13.3 / 17.3 HP) <10%ED / cont> <High-speed>	● / ● / ●
	6,000 min-1: 15 / 15 kW (20 / 20 HP) <10%ED / cont> <High torque>	○ / ○ / ○
12-station VDI quick-change turret	12,000 min-1: 12 / 15 kW (16.0 / 20 HP) <25%ED / cont>	○ / ○ / ○
20-station, bolt-tightened turret	12,000 min-1: 12 / 15 kW (16.0 / 20 HP) <25%ED / cont>	○ / ○ / ○
Tailstock		
Tailstock spindle live center*1	MT5	— / ● / —
Tailstock spindle built-in center	MT3	— / ○ / —
	MT4	— / ○ / —
No-tailstock		● / ○ / —
Tailstock with the hydraulic quill		— / ○ / —
Fixture		
Steady rest *2	Fixed steady rest ϕ20 - ϕ200 mm (ϕ0.8 - ϕ7.9 in.)	— / ○ / ○
	Hydraulic steady restt ϕ6 - ϕ70 mm (ϕ0.24 - ϕ2.8 in.)	— / ○ / ○
	Hydraulic steady restt ϕ8 - ϕ101 mm (ϕ0.31 - ϕ4.0 in.)	— / ○ / ○
	Hydraulic steady restt ϕ4 - ϕ52 mm (ϕ0.16 - ϕ2.0 in.)	— / ○ / ○
	Hydraulic steady restt ϕ6 - ϕ80 mm (ϕ0.24 - ϕ3.1 in.)	— / ○ / ○
Coolant		
Coolant system	350 / 550 W (50 / 60 Hz)	● / ● / ●
High-pressure coolant system	800 / 1,100 W (50 / 60 Hz)	○ / ○ / ○
	1.1 / 1.5 MPa (159.5 / 217.5 psi),2.2 kW (3 HP) <50 / 60 Hz>	○ / ○ / ○
Super-high pressure coolant system	Built-in high-pressure coolant 10 MPa (1,450 psi) <automatic variable pressure>	○* / ○* / ○*
	Separate type Interface <7 MPa (1,015 psi)>	○ / ○ / ○
	Separate type Interface <7 MPa (1,015 psi) KNOLL>	○ / ○ / ○
Chip disposal		
Air blow	Tool tip	○ / ○ / ○
	Chuck (Left spindle)	○ / ○ / ○
	Tailstock spindle	— / ○ / —
Chip conveyor	Right discharge, Scraper type	○ / ○ / ○
	Right discharge, Magnet scraper type	○ / ○ / ○
	Right discharge, Hinge type + With box filter	○ / ○ / ○
	Right discharge, Hinge type (Aluminum)	○ / ○ / ○
	Right discharge, Hinge type (Resin)	○*3 / ○*3 / ○*3
	Right discharge, Hinge type + Drum filter type	○ / ○ / ○
	Rear discharge, Scraper type (NLX 2500 | 700)	○ / ○ / ○
	Rear discharge, Magnet scraper type (NLX 2500 | 700)	○ / ○ / ○
	Rear discharge, Hinge type + With box filter (NLX 2500 | 700)	○ / ○ / ○

■: Standard □: Option
T: Turret **MC**: Milling **Y**: Y-axis
LS: Left spindle **RS**: Right spindle **TS**: Tailstock
● The right spindle specification (RS) is not equipped with a tailstock (TS).

●: Standard ○: Option —: not applicable

		NLX 2500 2nd Generation		
Basic specification		T MC LS Y		
Optional specifications		—	TS	RS
Measurement				
Manual in-machine tool presetter (Left spindle)	Pivoting type	●	●	●
	removable	○	○	○
Automatic in-machine tool presetter (Left spindle)	Pivoting type	○	○	○
Manual in-machine tool presetter (Right spindle)	removable	—	—	●
In-machine measuring system	Touch sensor with radio wave signal transmission	○	○	○
High-precision control				
Full closed loop control <Scale feedback>	X-axis	○	○	○
	Y-axis	○	○	○
	Z-axis	○	○	○
Automation				
Automatic power off		●	●	●
Automatic door		○	○	○
Programmable chuck pressure switch	Left spindle	●	●	●
	Right spindle	—	—	●
Workpiece unloader	Left discharge type	○	○	○
	Right discharge type (NLX 2500 | 700)	○	○	○
Right spindle workpiece ejector		○	○	○
	Cylinder type	○	○	○
Mist collector	Machine built-in *zero*FOG	○	○	○
	Cart-mounted *zero*FOG	○	○	○
	interface	○	○	○
Loader	Gantry loader GX5	○	○	○
	Gantry loader GX10T	○	○	○
	Work stocker (Number of pallet tables) GX5: 14 / 20 / 26	○	○	○
	Work stocker (Number of pallet tables) GX10T: 10 / 20	○	○	○
	Workpiece stocker layout (Right / Left)	○	○	○
Others				
Built-in LED worklight		●	●	●
	Addition	○	○	○
Double slide seal		●	●	●
	With forced lubrication	○	○	○
Signal lamp	4 colors (LED type: red, yellow, green, blue)	○	○	○
Signal lamp buzzer		○	○	○
Manual pulse generator (separate type)		●	●	●

* DMQP (DMG MORI Qualified Products)
*1 The center is optional.
*2 When the fixed steady rest or hydraulic steady rest (bolt-tightened) is selected, the retraction speed of the tailstock spindle is limited to 7 m/min (23.0 fpm).
*3 Technology Cycle "Chip Breaking" recommended
● DMQP:Please see Page 28 for details.
● The information in this catalog is valid as of September 2025.
● Specifications, accessories, safety device and function are available upon request.
● Some options are not available in particular regions. For details, please consult our sales representative.

⚠ Flammable coolant such as oil-based coolant has a high risk of ignition, and will cause fire or machine breakage if ignited. If you have to use a flammable coolant for any reason, please be sure to consult our sales representative.

Standard & optional features (SIEMENS SINUMERIK ONE)

●: Standard ○: Option —: not applicable

		NLX 2500 2nd Generation		
Basic specification		T MC LS Y		
Optional specifications		—	TS	RS
Spindle				
Left spindle	5,000 min-1: 30 / 22 / 22 kW (40 / 30 /30 HP) <15%ED / 40%ED / cont>	●	●	●
	3,000 min-1: 36 / 30 / 25 kW (48.0 / 40 / 33.3 HP) <10%ED / 30 min / cont> <High torque>	○	○	○
Right spindle	7,000 min-1: 11 / 11 / 11 / 7.5 kW (15 / 15 / 15 / 10 HP) <10%ED / 25%ED / 40%ED / cont> <Right spindle through-hole ϕ45 mm (ϕ1.7 in.)>	—	—	●
	5,000 min-1: 23 / 20 kW (30.7 / 26.7 HP) <40%ED / cont> <Right spindle through-hole ϕ83 mm (ϕ3.2 in.)>	—	—	○
	5,000 min-1: 32 / 28 / 27 / 25 kW (42.7 / 37.3 / 36.0 / 33.3 HP) <15%ED /25%ED / 40%ED / cont> <Right spindle through-hole ϕ115 mm (ϕ4.5 in.)>	—	—	○
Turret				
10-station, bolt-tightened turret	12,000 min-1: 10 / 13 kW (13.3 / 17.3 HP) <10%ED / cont> <High-speed>	○	○	○
	6,000 min-1: 15 / 15 kW (20 / 20 HP) <10%ED / cont> <High torque>	○	○	○
12-station, bolt-tightened turret	12,000 min-1: 10 / 13 kW (13.3 / 17.3 HP) <10%ED / cont> <High-speed>	●	●	●
	6,000 min-1: 15 / 15 kW (20 / 20 HP) <10%ED / cont> <High torque>	○	○	○
12-station VDI quick-change turret	12,000 min-1: 12 / 15 kW (16.0 / 20 HP) <25%ED / cont>	○	○	○
20-station, bolt-tightened turret	12,000 min-1: 12 / 15 kW (16.0 / 20 HP) <25%ED / cont>	○	○	○
Tailstock				
Tailstock spindle live center*1	MT5	—	●	—
Tailstock spindle built-in center	MT3	—	○	—
	MT4	—	○	—
No-tailstock		●	○	—
Tailstock with the hydraulic quill		—	○	—
Fixture				
Steady rest *2	Fixed steady rest ϕ20 - ϕ200 mm (ϕ0.8 - ϕ7.9 in.)	—	○	○
	Hydraulic steady restt ϕ6 - ϕ70 mm (ϕ0.24 - ϕ2.8 in.)	—	○	○
	Hydraulic steady restt ϕ8 - ϕ101 mm (ϕ0.31 - ϕ4.0 in.)	—	○	○
	Hydraulic steady restt ϕ4 - ϕ52 mm (ϕ0.16 - ϕ2.0 in.)	—	○	○
	Hydraulic steady restt ϕ6 - ϕ80 mm (ϕ0.24 - ϕ3.1 in.)	—	○	○
Coolant				
Coolant system	350 / 550 W (50 / 60 Hz)	●	●	●
High-pressure coolant system	800 / 1,100 W (50 / 60 Hz)	○	○	○
	1.1 / 1.5 MPa (159.5 / 217.5 psi),2.2 kW (3 HP) <50 / 60 Hz>	○	○	○
Super-high pressure coolant system	Built-in high-pressure coolant 10 MPa (1,450 psi) <automatic variable pressure>	○*	○*	○*
	Separate type Interface <7 MPa (1,015 psi)>	○	○	○
	Separate type Interface <7 MPa (1,015 psi) KNOLL>	○	○	○
Chip disposal				
Air blow	Tool tip	○	○	○
	Chuck (Left spindle)	○	○	○
	Tailstock spindle	—	○	—
Chip conveyor	Right discharge, Scraper type	○	○	○
	Right discharge, Magnet scraper type	○	○	○
	Right discharge, Hinge type + With box filter	○	○	○
	Right discharge, Hinge type (Aluminum)	○	○	○
	Right discharge, Hinge type (Resin)	○*3	○*3	○*3
	Right discharge, Hinge type + Drum filter type	○	○	○
	Rear discharge, Scraper type (NLX 2500 | 700)	○	○	○
	Rear discharge, Magnet scraper type (NLX 2500 | 700)	○	○	○
	Rear discharge, Hinge type + With box filter (NLX 2500 | 700)	○	○	○

■: Standard □: Option
T : Turret **MC**: Milling **Y** : Y-axis
LS: Left spindle **RS**: Right spindle **TS**: Tailstock
● The right spindle specification (RS) is not equipped with a tailstock (TS).

●: Standard ○: Option —: not applicable

		NLX 2500 2nd Generation		
Basic specification		T MC LS Y		
Optional specifications		—	TS	RS
Measurement				
Manual in-machine tool presetter (Left spindle)	Pivoting type	●	●	●
	removable	○	○	○
Automatic in-machine tool presetter (Left spindle)	Pivoting type	○	○	○
Manual in-machine tool presetter (Right spindle)	removable	—	—	●
In-machine measuring system	Touch sensor with radio wave signal transmission	○	○	○
High-precision control				
Full closed loop control <Scale feedback>	X-axis	○	○	○
	Y-axis	○	○	○
	Z-axis	○	○	○
Automation				
Automatic door		○	○	○
Programmable chuck pressure switch	Left spindle	●	●	●
	Right spindle	—	—	●
Workpiece unloader	Left discharge type	○	○	○
	Right discharge type (NLX 2500 | 700)	○	○	○
Right spindle workpiece ejector		○	○	○
	Cylinder type	○	○	○
Mist collector	Machine built-in *zero*FOG	○	○	○
	Cart-mounted *zero*FOG	○	○	○
	interface	○	○	○
Others				
Built-in LED worklight		●	●	●
	Addition	○	○	○
Double slide seal		●	●	●
	With forced lubrication	○	○	○
Signal lamp	4 colors (LED type: red, yellow, green, blue)	○	○	○
Signal lamp buzzer		○	○	○
Manual pulse generator (separate type)		●	●	●

* DMQP (DMG MORI Qualified Products)
*1 The center is optional.
*2 When the fixed steady rest or hydraulic steady rest (bolt-tightened) is selected, the retraction speed of the tailstock spindle is limited to 7 m/min (23.0 fpm).
*3 Technology Cycle "Chip Breaking" recommended
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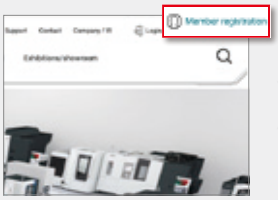

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+ Catalog information last updated in September 2025. Please note that specifications are subject to change without prior notice.

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