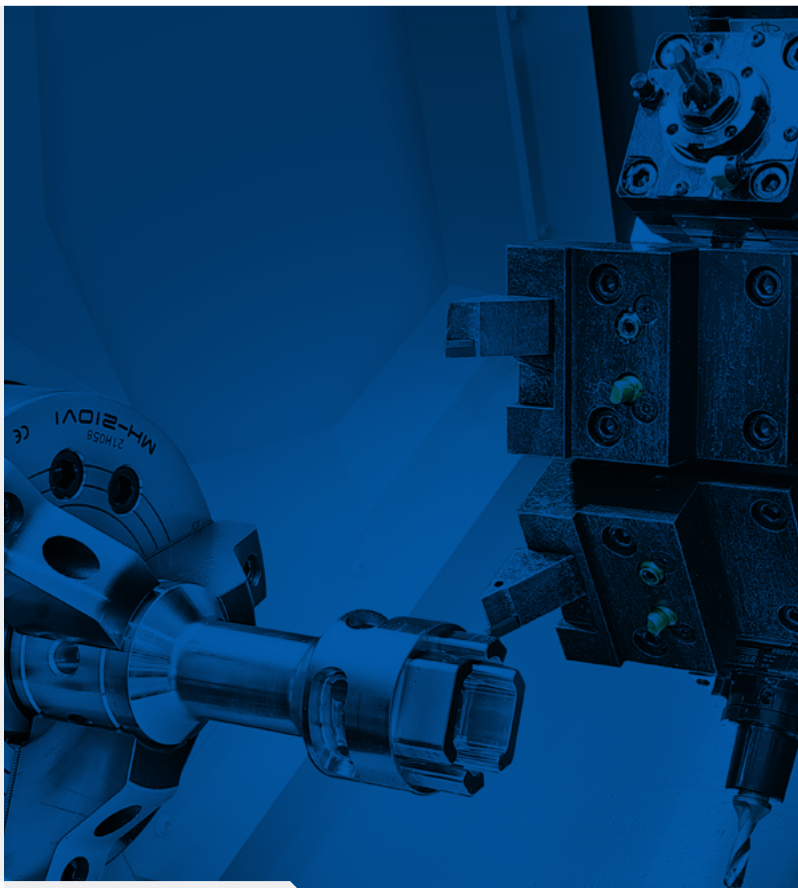
DN SOLUTIONS

6/8/10 INCH GLOBAL COMPACT TURNING CENTER

Lynx 2100·2600

Lynx 2100/M
Lynx 2100L/LM/LMS
Lynx 2600/M



Lynx 2100 · 2600

The Lynx 2100 Series the next generation of the Lynx Series, currently with more than 25000 sales worldwide aims to deliver even greater customer satisfaction with its superior machining performance, reliability, and user convenience.

CONTENTS

SUPERIOR MACHINING PERFORMANCE

Equipped with a 18.5kW high-power motor and machine structure, and further enhanced spindle and axis ball screw stiffness, the Lynx 2100/2600 series offers excellent cutting capability up to maximum turning diameter of Ø460mmand a maximum turning length of 658mm

HIGH RELIABILITY

The Series' excellent reliability is based on the adoption of a wider support structure, more stable bed, low vibration/noise spindle, servo-driven turret, and a full slideway cover for preventing coolant leaks and chips from penetrating the machine.

IMPROVED USER CONVENIENCE

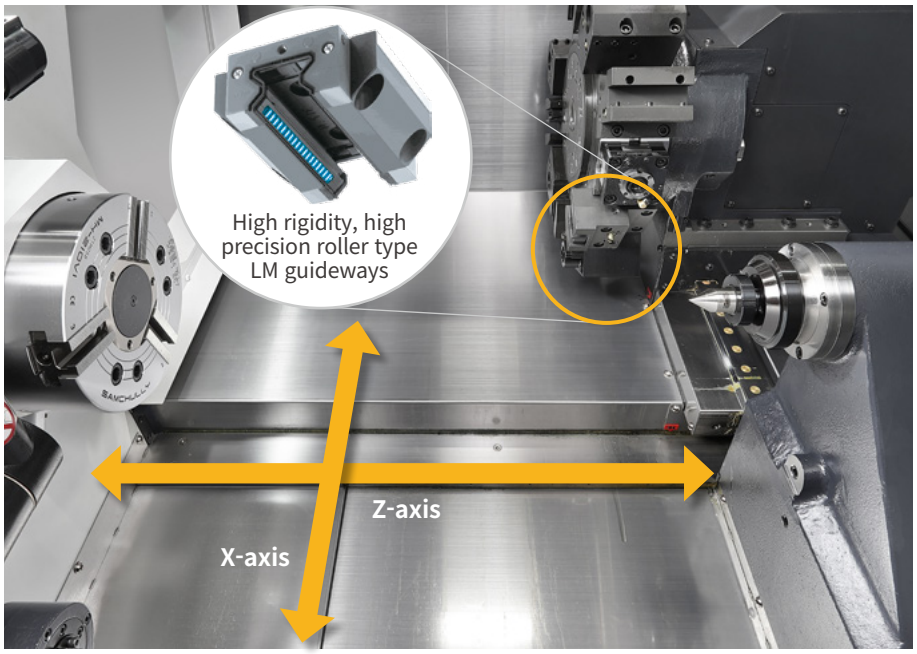
The CNC tailstock as standard and EZ work enable the user to operate peripheral devices quickly and conveniently. Adoption of grease type lubrication offers the users the convenience and low cost.

BASIC STRUCTURE

The Lynx 2100/2600 series includes a wider support structure for X, Z axes and tailstock traverse. The X and Z axes are fitted with highly rigid roller-type LM Guideways.

Std. Chuck Size	Model	Travel distance (mm(inch))		Rapid traverse (m/min(ipm))		Fnuctions		
		Size	Z-axis	X-axis	Z-axis	2-axis	M	MS
6 inch	Lynx 2100A / MA	205 (8.1)	340 (13.4)	30 (1.2)	36 (1.4)	○	○	-
	Lynx 2100LA / LMA / LMSA		560 (22.0)			○	○	○
8 inch	Lynx 2100B / MB	205 (8.1)	340 (13.4)	30 (1.2)	36 (1.4)	○	○	-
	Lynx 2100LB / LMB / LMSB		560 (22.0)			○	○	○
10 inch	Lynx2100LC /LMC/LSMC	205 (8.1)	560 (22.0)	30 (1.2)	36 (1.4)	○	○	○
	Lynx 2600/M	255 (10.0)	680 (26.8)	30 (1.2)	30 (1.2)	○	○	-

** M : 2-axis + Milling / MS : Milling + Sub spindle*



MACHINING AREA

The Series also offers the largest machining area in its class, with a max. turning diameter of Ø460 mm (Ø18.1 inch) and a max. turning length of 658 mm (25.9 inch).

Max. turning diameter

Lynx 2600

Ø460 mm

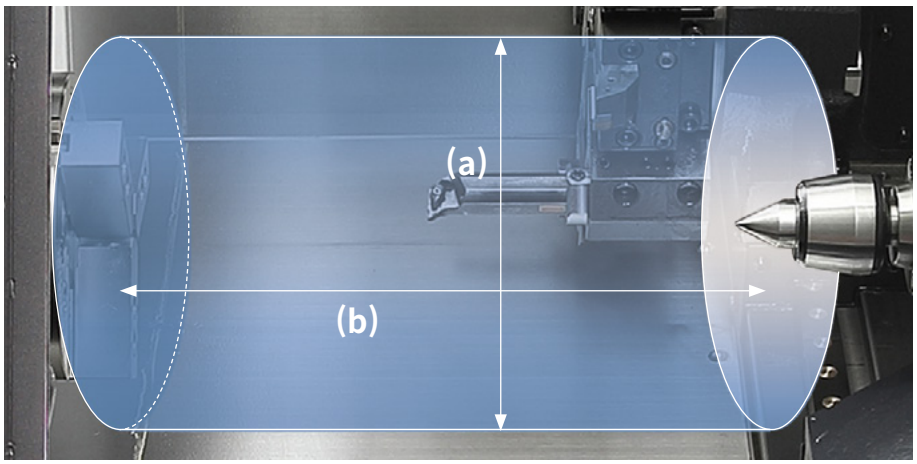
(18.1 inch)

Max. turning length

Lynx 2600

658 mm

(25.9 inch)



Function	Models	unit	Max. turning dia.(a)	Max. turning length(b)
2-axis	Lynx 2100A / B	mm (inch)	Ø350 (Ø13.8)	330 (13.0)
	Lynx 2100LA / LB		Ø350 (Ø13.8)	550 (21.7)
	Lynx 2100LC		Ø350 (Ø13.8)	537 (21.1)
	Lynx 2600		Ø460 (Ø18.1)	658 (25.9)
M / MS type	Lynx 2100MA / MB		Ø300 (Ø11.8)	290 (11.4)
	Lynx 2100LMA / LMB		Ø300 (Ø11.8)	510 (20.1)
	Lynx 2100LMSA / LMSB		Ø300 (Ø11.8)	510 (20.1)
	Lynx 2100LMC/LMSC		Ø300 (Ø11.8)	497 (19.6)
	Lynx 2600M		Ø380 (Ø15.0)	610 (24.0)

SPINDLE

The high power / torque motor supports high precision and heavy duty cutting, improving productivity.

Max. spindle speed

Lynx 2100A / LA / MA / LMA / LMSA

6000 r/min

Max. spindle torque / power

Lynx 2600/M

403 N·m (97.4 ft-lbs) /

18.5 kW (20.1 Hp)

Max. Bar working dia.

Lynx 2600/M

Ø81 mm (3.2 inch)

Chuck size	Models	Spindle speed r/min	Spindle Power (S6 25%/40%/S1 Cont.) kW(Hp)	Max torque N·m (ft-lbs)	Bar working dia. mm
6 inch	Lynx 2100A / LA / MA / LMA / LMSA	6000	15/11/11 (20.1/14.7/14.7)	127 (93.7)	Ø51(Ø2.1)
8 inch	Lynx 2100B / LB / MB / LMB / LMSB	4500	15/11/11 (20.1/14.7/14.7)	169 (124.7)	Ø67 (Ø2.6)
10 inch	Lynx 2100LC / LMC / LMSC	3500	18.5/15/15 (24.8/20.1/20.1)	269 (198.5)	Ø81 (Ø3.2)
	Lynx 2600 / M	3500	18.5/15/15 (24.8/20.1/20.1)	403 (297.4)	Ø81 (Ø3.2)

SUB-SPINDLE

The sub-spindle function enables rear-side cutting by a single setup, thereby maximizing the user's productivity and efficiency.

Max. spindle speed

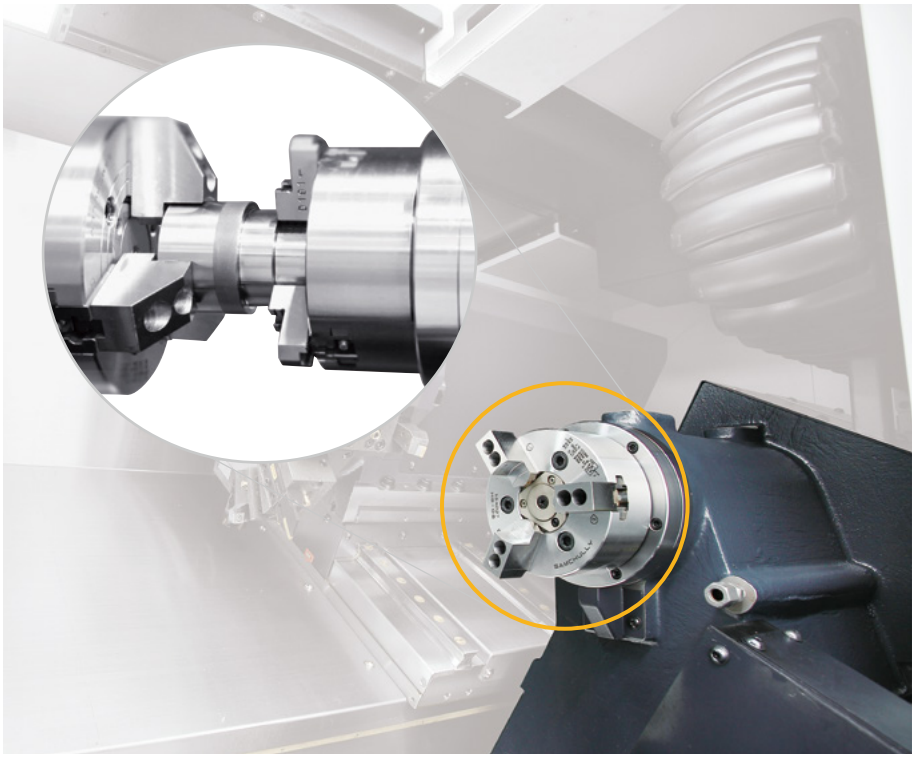
6000 r/min

Max. spindle power

5.5 kW
(7.4 Hp)

Max. spindle torque

47 N·m
(34.7 ft-lbs)



Models	Std. Chuck Size	Spindle speed r/min	Max.power (S6 25%/ 60%/ S1 Cont.) kW (Hp)	Max torque N·m (ft-lbs)
Lynx 2100LMSA / LMSB / LMSC	5 inch	6000	5.5/5.5/3.7 (7.4 /7.4 / 5.0)	47 (34.7)

TURRET

Rotation of the turret is controlled by servo motor for rapid and accurate selection of tools. The M model is fitted with DN Solutions unique BMT55P turret to provide superior performance for milling operations.

Number of tool stations

Lynx 2100 / 2600

10/12 st.

BMT milling turret

Lynx 2100M/2600M

BMT 45P/BMT 55P

Rotary tool motor power

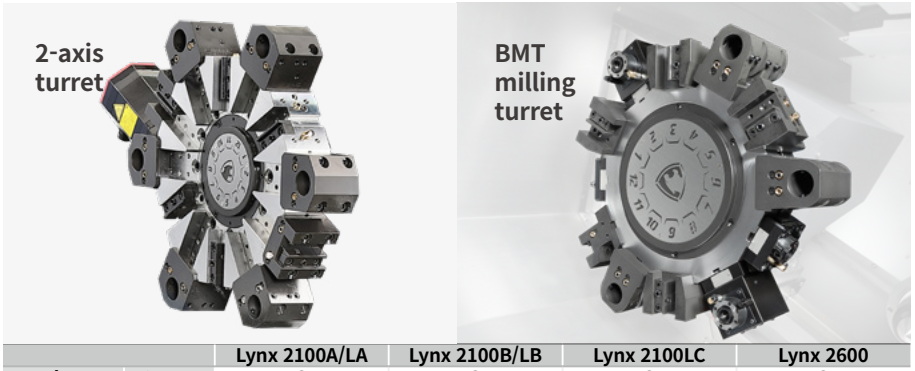
Lynx 2100M/2600M

3.7/5.5 kW
(5.0/7.4 Hp)

Rotary tool speed

Lynx 2100M/2600M

6000 r/min



		Lynx 2100A/LA	Lynx 2100B/LB	Lynx 2100LC	Lynx 2600
Number of Stations	10 st.	○	○	●	●
	12 st.	●	●	○	○

		Lynx 2100MA/LMA/LMSA	Lynx 2100MB/LMB/LMSB	Lynx 2100LMC/LMSC	Lynx 2600M	Notes
Number of Stations	12 st.	-	-	-	●	-
	12 st. (24 position)	●	●	●	○	-
BMT Turret	BMT 45P	●	●	●	-	12st.(24 position)
	BMT 55P	-	-	-	●	12st./12st. (24 position selectable)
Rotary tool	6000 r/min, 3.7kW	●	●	●	-	12st.(24 position)
	6000 r/min, 5.5kW	-	-	-	●	12st./12st. (24 position selectable)

TAILSTOCK

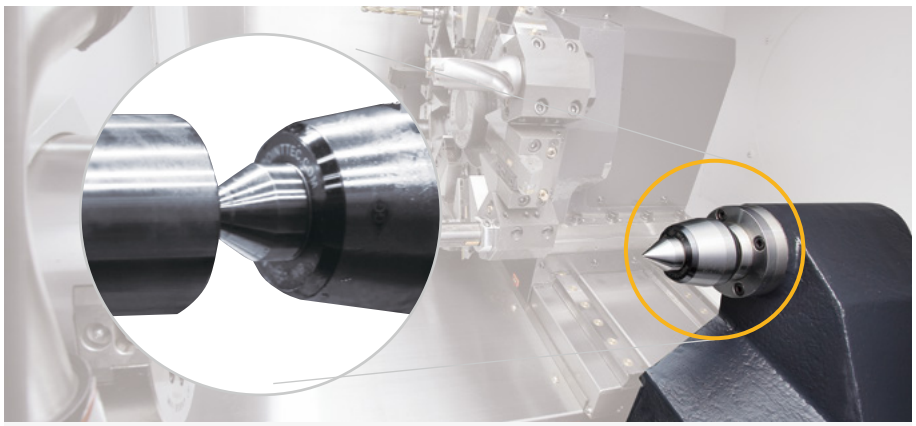
Adoption of the hydraulically actuated CNC tailstock (hydraulic type) enables tailstock positioning and work setting to be achieved using the operation panel. The dedicated screen reduces work setting times by about 50%.

CNC Tailstock (Hydraulic Type)

Setting time reduced by

50 % ↓

Models	Tailstock travel mm (inch)	Tailstock center Type	Tailstock Center	Std./ Opt.
Lynx 2100A/B/ MA/MB	360 (14.1)	Live Center	MT #4	OPTION
Lynx 2100LA/ LB/LC/ LMA/LMB/ LMC	580 (22.8)	Live Center	MT #4	Std.
Lynx 600 /M	700 (27.5)	Live Center	MT #4	Std.
		Dead Center		OPTION



The EZ work System enables fast and easy tailstock positioning and control.

Work clamp → Tailstock moving → Auto memory of support point by a quick and simple operation (button) → Auto support or retreat using the M-code or buttons on the operation panel

STANDARD | OPTIONAL SPECIFICATIONS

A range of options is available to suit individual requirements.

Description	Features	Lynx 2100A/LA	Lynx 2100B/LB	Lynx 2100LC	Lynx 2600	Lynx 2100 MA/LMA/LMSA	Lynx 2100 MB/LMB/LMSB	Lynx 2100 LMC/LMSC	Lynx 2600M
Main chuck	6 inch	●	-	-	-	●	-	-	-
	8 inch	○	●	-	-	○	●	-	-
	10 inch	-	○	●	●	-	○	●	●
	12 inch	-	-	-	○	-	-	-	○
	Non-chuck	○	○	○	○	○	○	○	○
Sub. Chuck (Applies to only Lynx 2100 LMSA/LMSB/ LMSB)	5 inch	-	-	-	-	- / ● (LMSA)	- / ● (LMSB)	- / ● (LMSC)	-
	Non-chuck	-	-	-	-	- / ○ (LMSA)	- / ○ (LMSB)	- / ○ (LMSC)	-
Jaw	Soft jaw	●	●	●	●	●	●	●	●
	Hard jaw	○	○	○	○	○	○	○	○
Chucking Option	Dual pressure chucking	○	○	○	○	○	○	○	○
	Chucking clamp confirmation	●	●	●	●	●	●	●	●
Turret	10 st.	○	○	●	●	-	-	-	-
	12 st.	●	●	○	○	-	-	-	-
	BMT45P_12st.(24 Position)	-	-	-	-	●	●	●	-
	BMT55P_12st.	-	-	-	-	-	-	-	●
	BMT55P_12st.(24 Position)	-	-	-	-	-	-	-	○
Tailstock (Lynx 2100 LMSA/LMSB/ LMSB is not applicable.)	CNC Tailstock (Hydraulic)	●	●	●	●	● / - (LMSA)	● / - (LMSB)	● / - (LMSC)	●
	Non-Tailstock (-NT)	○ (A) / -	○ (A) / -	-	-	○ (MA) / -	○ (MB) / -	-	-
	Live center(MT#4)	●	●	●	●	● / - (LMSA)	● / - (LMSB)	● / - (LMSC)	●
	Dead center(MT#4)	-	-	-	○	-	-	-	○
Coolant Pump	1.5 bar	●	●	●	●	●	●	●	●
	Increase power (4.5/7/10/14.5/20 bar)	○	○	○	○	○	○	○	○
	Add. coolant pump(for option) 4.5 bar	○	○	○	○	○ / ● (LMSA)	○ / ● (LMSB)	○ / ● (LMSC)	○
Coolant options	Oil skimmer	○	○	○	○	○	○	○	○
	Coolant chiller	○	○	○	○	○	○	○	○
	Coolant pressure switch	○	○	○	○	○	○	○	○
	Coolant level switch	●	●	●	○	●	●	●	○
	Chuck coolant	○	○	○	○	○	○	○	○
	Coolant gun	○	○	○	○	○	○	○	○
Chip disposal options	Side type chip conveyor	○	○	○	○	○	○	○	○
	Rear type chip conveyor	○	○	○	○	○	○	○	○
	Chip bucket	○	○	○	○	○	○	○	○
	Chip air blower	○	○	○	○	○	○	○	○
	Mist collector interface	●	●	●	●	●	●	●	●
	Mist collector (Stand alone type)	○	○	○	○	○	○	○	○
Standard devices	Front door interlock	●	●	●	●	●	●	●	●
	Manual book	●	●	●	●	●	●	●	●
	Installation parts	●	●	●	●	●	●	●	●
	Safety sticker	●	●	●	●	●	●	●	●
	Work light	●	●	●	●	●	●	●	●
	Foot switch	●	●	●	●	●	●	●	●
	Tool load monitoring system	●	●	●	●	●	●	●	●
Others	Linear scale (X/Z)	X	X	X	○	X	X	X	○
	Signal tower	○	○	○	○	○	○	○	○
	Air gun	○	○	○	○	○	○	○	○
	Automatic Power off	○	○	○	○	○	○	○	○
	Thermal compensation(sensor type)	○	○	○	○	○	○	○	○
	Sketch turn S/W	○	○	○	○	○	○	○	○
	Top protection cover	○	○	○	○	○	○	○	○
	Tool kit(l-lench/spanner)	○	○	○	○	○	○	○	○
Measuring & Automation	Tool setter (Manual)	○	○	○	○	○	○	○	○
	Tool setter (Automatic)	○	○	○	○	○	○	○	○
	Part catcher with parts box	○	○	○	○	○	○	○	○
	Part catcher with parts conyeyor	○	○	○	○	○	○	○	○
	Auto door	○	○	○	○	○	○	○	○
	Bar feeder interface	○	○	○	○	○	○	○	○
Customized special options*	Chip Breaking System (CBS II)	○	○	-	-	○	○	-	-
	Tsc for main spindle_preparation	○	○	○	○	○	○	○	○
	Chuck pressure switch	○	○	○	○	○	○	○	○
	Automatic top door	○	○	○	○	○	○	○	○
	Coolant shower	○	○	○	○	○	○	○	○
	Workpiece measuring system	○	○	○	○	○	○	○	○
	Quick change tooling (CAPTO)	○	○	○	○	○	○	○	○

** Please contact your DN Solutions representative for detailed machine information.*

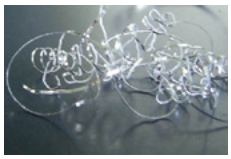
● *Standard* ○ *Optional* *X N/A*

⚠ Fire Safety Precautions

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

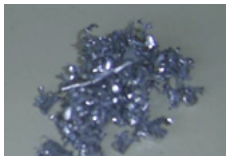
PERIPHERAL EQUIPMENT

Chip conveyor OPTION


Long


Short


Needle


Sludge

Hinged belt type : Most common type of chip conveyor. Appropriate for steel materials generating chips over 30mm.

Magnetic scraper type : Chip conveyor with a magnet. Appropriate for machining cast iron and the generation of fine chips.

Drum filter type : Drum filter type chip conveyor. Appropriate for aluminum work for filtering small chips.

Chip conveyor type \ Material		Carbon steel			Cast iron		Aluminium		
		Long	Short	Needle	Short	Sludge	Long	Short	Needle
Hinged belt type		○	△	X	△	X	○	△	X
Scrapper type	Normal	X	○	△	○	△	X	△	X
	Magnetic	X	○	○	○	○	-	-	-
Drum filter type	Hinged type	○	△	X	△	X	○	△	X
	Scrapper	X	○	△	○	△	X	○	△

●: Suitable, △: Possible, X: Not suitable

Greaselubrication system

The standard grease lubrication system eliminates the need for an oil skimmer and reduces lubrication costs by about 80% compared to oil lubrication.

Yearly maintenance cost

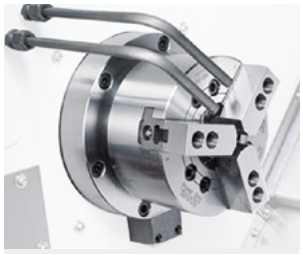
MAX. **80** %

Mist collector OPTION

The mist collector absorbs airborne oil vapor and fine dust particles in the system to improve the working environment.

Singnal tower OPTION

Coolant Blower OPTION



Quick change CAPTO OPTION

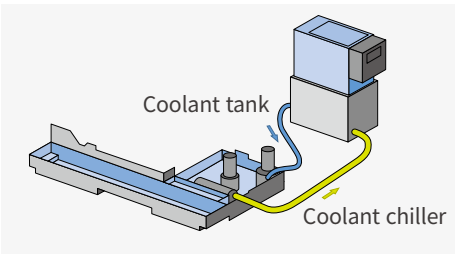
The Quick Change Tool system simplifies tool change operation. Recommended for users who need to change tools frequently or reduce the set-up time.

Oil skimmer OPTION

As the Lynx 2100/2600 Series uses a grease type lubricant, the coolant rarely mixes with oil. This optional oil skimmer helps to maintain the exceptional service life of the coolant.

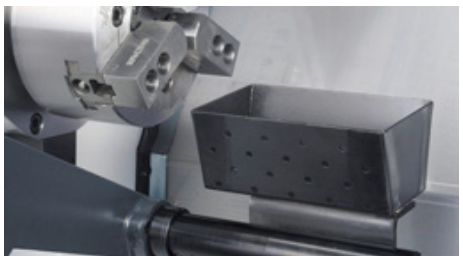
Coolant chiller (recommended) OPTION

A coolant chiller is recommended to help prevent temperature rises and to reduce thermal deformation when using a water-insoluble coolant or highpressure coolant system (i.e., power over 1.5kW).



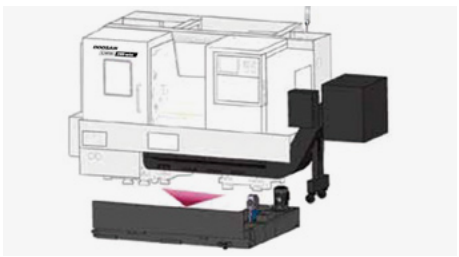
Part catcher OPTION

The Part Catcher automatically catches finished parts and transfers them securely to downstream processes.



Easy-to-clean coolant tank

The coolant tank can be isolated without removing the chip conveyor, significantly enhancing the operator's convenience and overall efficiency.



Tool setter (Manual /Auto) (Tool length measurement device) OPTION

The tool setter facilitates the setting of cutting tools, and can be used to automatically detect and compensate for worn tools.

FANUC i PLUS

DN Solutions Fanuc i Plus maximizes customer productivity and convenience.

15.6" Screen + New OP

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

FANUC 31i-B Plus

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

USB and PCMCIA card QWERTY keyboard

- EZ-Guide i standard
- Ergonimic operator panel
- 2MB Memory
- Hot keys

iHMI touchscreen

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

Range of applications

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

CBS, Chip Breaking Solution II

The servo axis vibrates in the direction of processing operations thereby improving chip control and preventing chip curling, and ensuring process stability, material transfer etc.

SKETCH-TURN OPTION

DN Solutions Conversational programming software for PC

- Easy to learn for beginners
- Time savings in programming
- Reduce processing cycle time

NUMERIC CONTROL SPECIFICATIONS

FANUC

Description	Item	Specifications	2-Axis DN Solutions Fanuc i Plus	M DN Solutions Fanuc i Plus
Controlled axis	Controlled axes		2(X,Z)	3(X,Z,C)
	Simultaneously controlled axes		2 axes	3 axes
Data input/output	Fast data server		○	○
	Memory card input/output		●	●
	USB memory input/output		●	●
	Larger capacity memory_2GB	Note *2) Available Option only with 15" Touch LCD (iHMI Only)	○ *2)	○ *2)
Interface function	Embedded Ethernet		●	●
	Fast Ethernet		○	○
	Enhanced Embedded Ethernet function		●	●
Operation	DNC operation	Included in RS232C interface.	●	●
	DNC operation with memory card		●	●
Program input	Workpiece coordinate system	G52 - G59	●	●
Feed function	AI contour control I	G5.1 Q_, 40 Blocks	○	○
	AI contour control II	G5.1 Q_, 200 Blocks	○	○
Operation Guidance Function	EZ Guidei (Conversational Programming Solution)		●	●
	iHMI with Machining Cycle	Note *1) Only with 15" Touch LCD standard	○ *1)	○ *1)
	EZ Operation package		●	●
Setting and display	CNC screen dual display function		●	●
Network	FANUC MTConnect		✪	✪
	FANUC OPC UA		✪	✪
Others	Display unit	15" color LCD	●	●
		15" color LCD with Touch Panel	○	○
	Part program storage size & Number of registerable programs	640M(256KB)_500 programs	X	X
		5120M(2MB)_1000 programs	●	●

Network: FANUC MTConnect and FANUC OPC UA available.

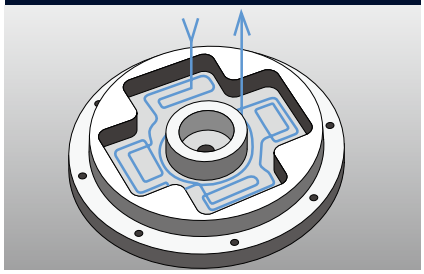
● *Standard* ○ *Optional* *X N/A* ✪ *Available*

DN SOLUTIONS FANUC i PLUS

EZ-Guide i

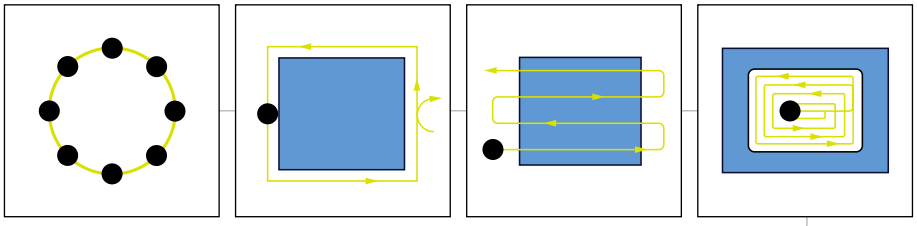
Using the DN Solutions EZ-Guide i, users can create a cutting program for any desired shape, including patterns, by entering just the dimensions.

Collet Chuck



Main screen

EXAMPLE PROGRAMMING : CUTTING SHAPE

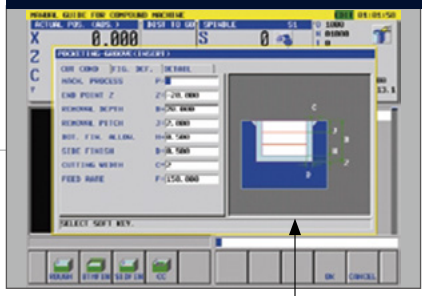


AUTOMATIC CREATION OF CUTTING PROGRAM

```
O7000 (SAMPLE PROGRAM) ;
...
M3 S1500 ;
G0 X50. Y125. ;
G0 Z30. ;
G1040 T0.5 J3. H0.2 K0.5 ... ;
G1020 H120. V50. U37. W68. ... ;
G0 Z80. ;
M5 ;
```

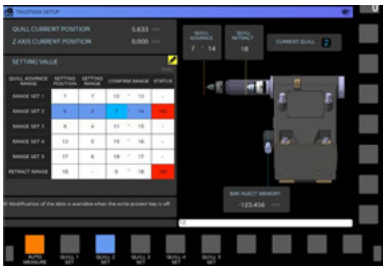
A cutting program is automatically created with the entered values.

EZ-GUIDE I SCREEN



Enter the dimensions of the shape

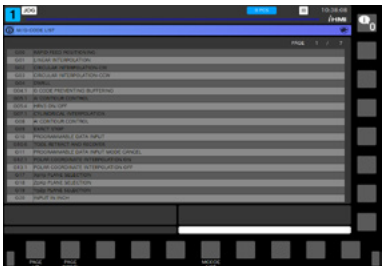
EZ Work



Tailstock quill position detection function

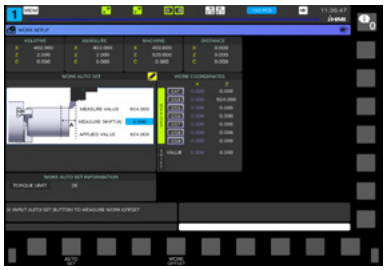
The user can set the tailstock position minutely with sensor. This fuction is able to recall the positions that the user had set. It can reduce the setting time.

Programing



G code / M code

The user can check the explanation of G code and M code in EZ Work.



Workpiece setting OPTION

By measuring the position of the workpiece, the user sets the offset manually or automatically.

Operation / Maintenance

Tool load monitoring

During cutting, abnormal load caused by wear or damage of the tool is detected and an alarm is triggered to prevent further damage.

Thermal compensation OPTION

Sensors check and calculate the displacements and compensate it beforehand.

Work management

Capability of checking operation hours of the system, and quantity of finished workpieces.

CONVENIENT OPERATION

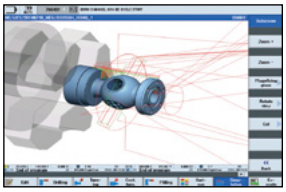
Siemens S828D

15.6 inch display + New OP

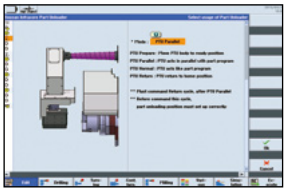
Siemens 828D' operation panel enhances operating convenience by incorporating common-design buttons and layout. It features a Qwerty keyboard for fast and easy data input and operation.

- 15.6 inch display
- USB (standard)
- QWERTY keyboard

Conversational convenient function

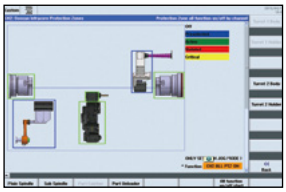


Cutting and operation support function
This function shows a cutting and tool path simulation in real-time.



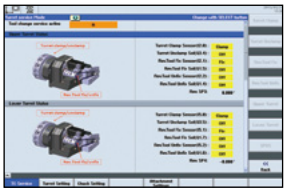
Shop-turn mode
[various]
⬇
[attachments]

The automation elements (parts catcher, parts unloader etc.), can be easily controlled via interactive screens.



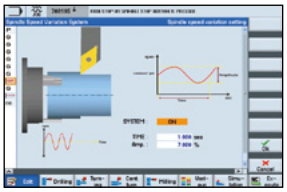
[Custom]
⬇
[Protection zones]

Operation safety function
Protection Zone Synchronized Actions checks the interference between the turret and the spindle to prevent collisions caused by operator error.



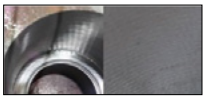
[offset]
⬇
[operating parameter]
⬇
[TC service]

Maintenance and service convenience function
Maintenance and service of major equipment and peripheral devices, including the timer and parts counter settings can be easily undertaken.

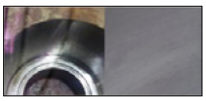


[various]
⬇
[attachment]
⬇
[DSSV]

Machining accuracy improvement
The NC controls spindle speed at an optimal level for precision threading and turning, making it possible to automatically improve surface roughness.



Before applying the functi



After applying the function

NUMERIC CONTROL SPECIFICATIONS

SIEMENS

Description	Item	Specifications	2-Axis S828D	M S828D	S S828D	MS S828D	Y S828D	SY S828D
Controlled axis	Controlled axes		X,Z,C1	X,Z,C1,C2	X,Z,C1,C3,B	X,Z,C1,C2,C3,B	X,Z,C1,C2,Y	X,Z,C1,C2,Y,C3,B
	Simultaneously controlled axes		4 axes	4 axes	4 axes	4 axes	4 axes	4 axes
Data input/output	Memory card input/output		X	X	X	X	X	X
	USB memory input/output		●	●	●	●	●	●
Interface function	Ethernet	(X130)	●	●	●	●	●	●
Operation	On network drive	(without EES option, Extcall)	●	●	●	●	●	●
	On USB storage medium, e.g. memory stick	(without EES option, Extcall)	●	●	●	●	●	●
Program input	Workpiece coordinate system	G54 - G59, G507 - G599	●	●	●	●	●	●
Feed function	Advanced surface		X	X	X	X	X	X
	Top surface		X	X	X	X	X	X
	Look ahead number of block		1	1	1	1	1	1
Programming & Editing function	3D simulation, finished part		●	●	●	●	●	●
	Simultaneous recording		●	●	●	●	●	●
	DXF Reader for PC integrated in SINUMERIK Operate		○	○	○	○	○	○
Operation Guidance Function	Shopturn		●	●	●	●	●	●
Setting and display	Operation via a VNC viewer		●	●	●	●	●	●
Network	MTConnect		✪	✪	✪	✪	✪	✪
	OPCUA		○	○	○	○	○	○
Others	Display unit	15.6" color display with touch screen	●	●	●	●	●	●
	Part program storage size	CNC user memory 5MB	●	●	●	●	●	●
		CNC user memory 100 MB	○	○	○	○	○	○
		CNC user memory 6GB	X	X	X	X	X	X
		CNC user memory 40GB (with PCU or IPC)	X	X	X	X	X	X
		CNC user memory without limit(Execution from extenal storage devices)(EES / Using by USB or Network)	○	○	○	○	○	○
		HMI user memory for CNC part program 6GB	X	X	X	X	X	X

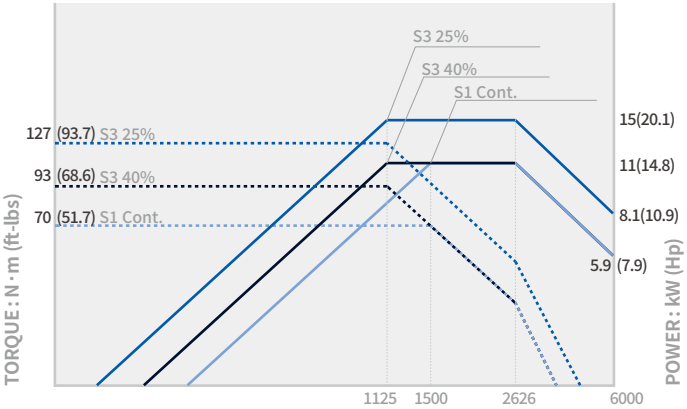
● *Standard* ○ *Optional* *X N/A* ✪ *Available*

POWER | TORQUE

FANUC · Lynx 2100 A/LA/MA/LMA/LMSA/B/LB/LMB/LMSB/LC/LMC/LMSC

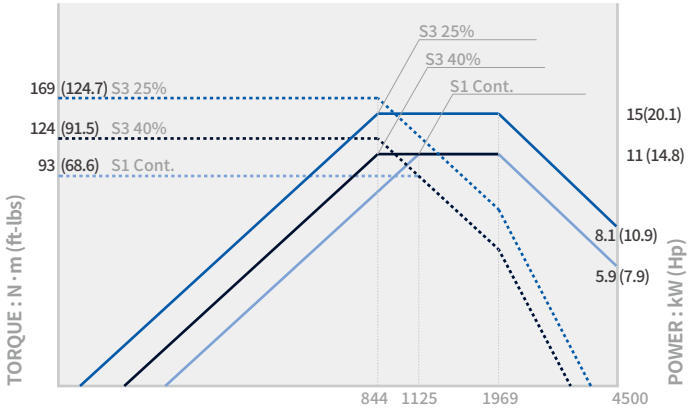
Main spindle

Lynx 2100A / LA / MA / LMA / LMSA



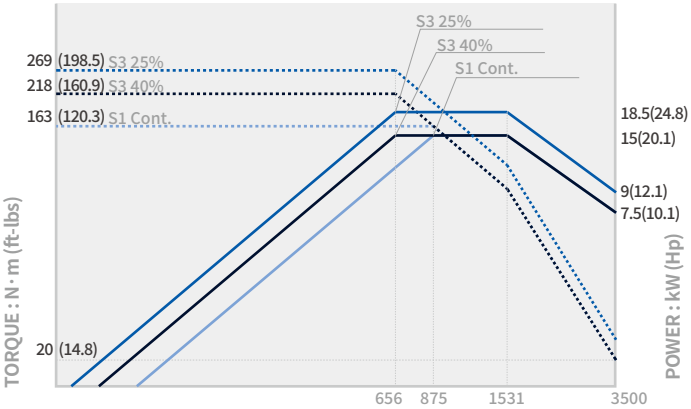
Main spindle

Lynx 2100B / LB / MB / LMB / LMSB



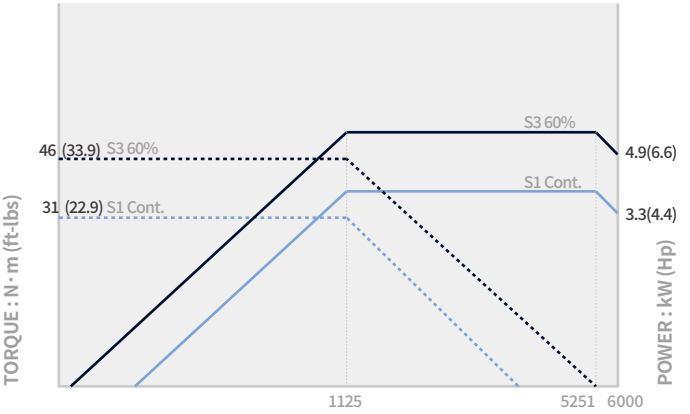
Main spindle

Lynx 2100LC / LMC / LMSC



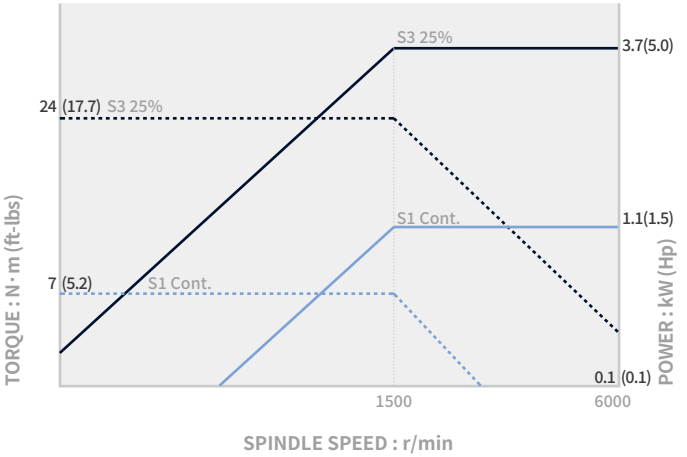
Sub spindle

Lynx 2100LMSA / LMSB / LMSC



Rotary tool

Lynx 2100M / LM / LMS

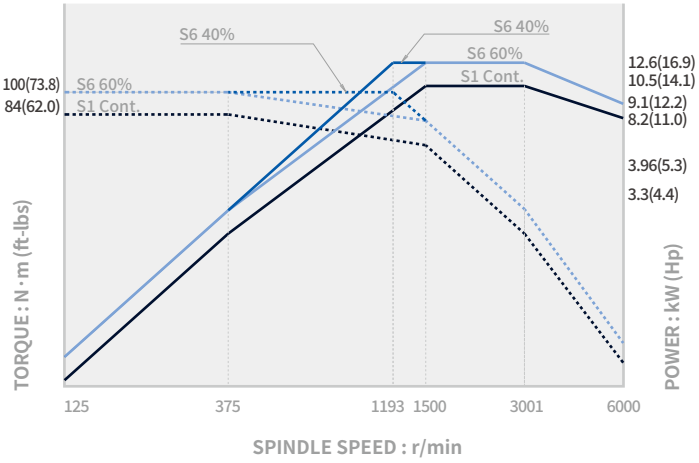


POWER | TORQUE

SIEMENS · Lynx 2100 A/LA/MA/LMA/LMSA/B/LB/LMB/LMSB/LC/LMC/LMSC

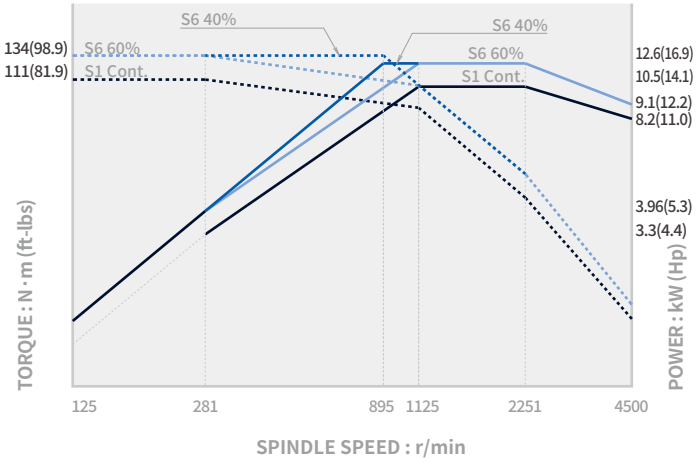
Main spindle

Lynx 2100A / LA / MA / LMA / LMSA



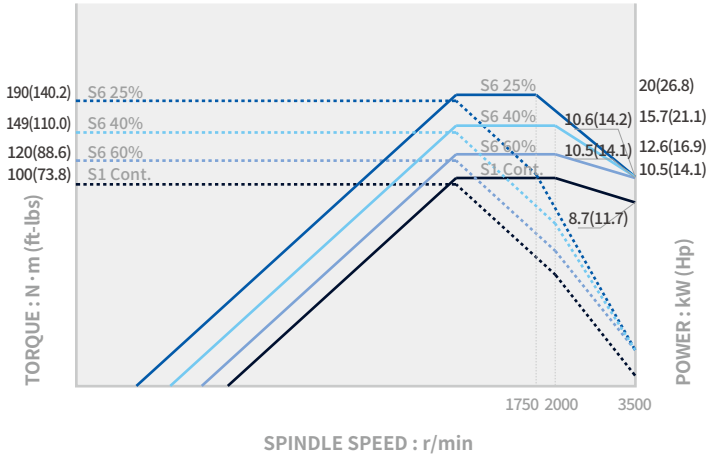
Main spindle

Lynx 2100B / LB / MB / LMB / LMSB



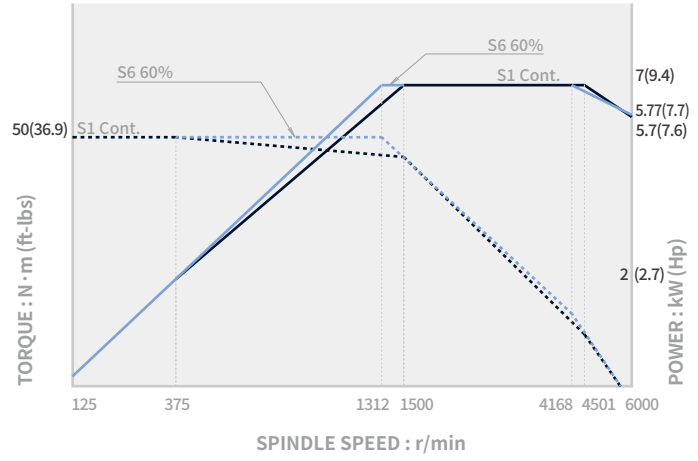
Main spindle

Lynx 2100LC / LMC / LMSC



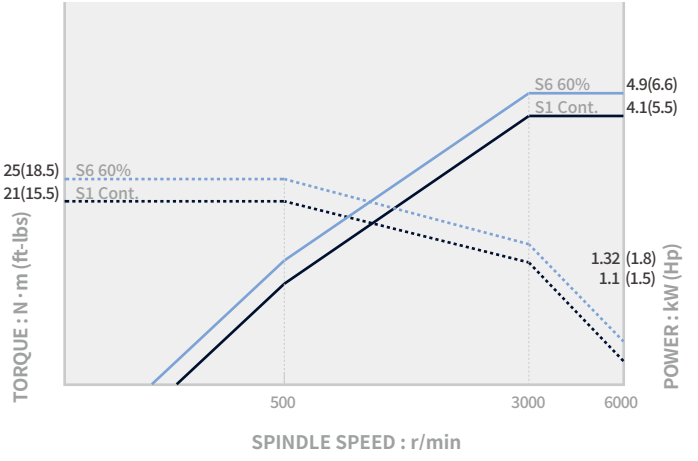
Sub spindle

Lynx 2100LMSA / LMSB / LMSC



Rotary tool

Lynx 2100M / LM / LMS

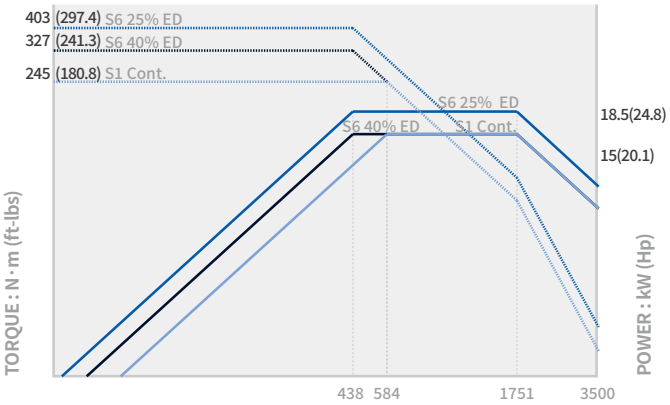


POWER | TORQUE

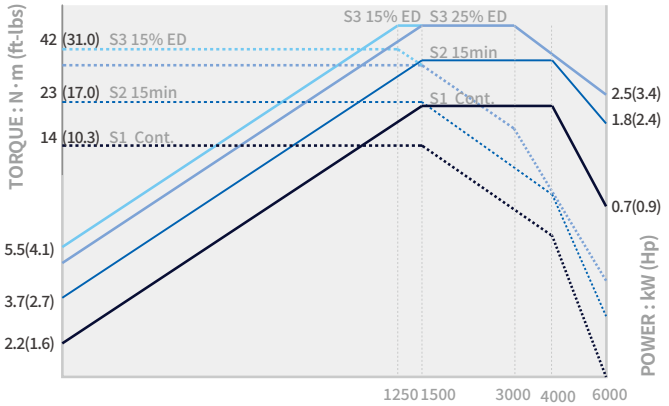
Lynx 2600/M

FANUC

Main spindle Lynx 2600/M

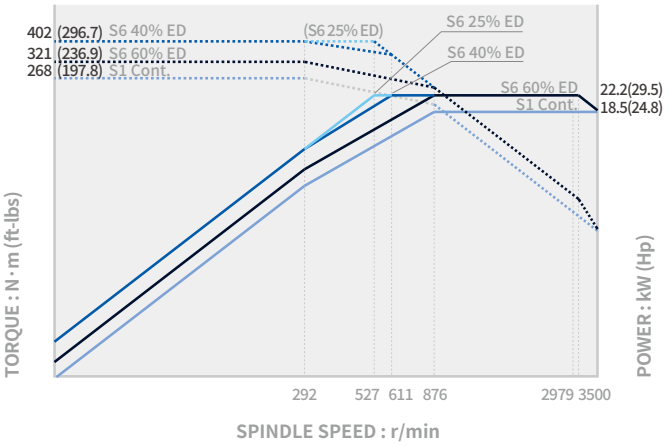


Rotary tool Lynx 2600/M

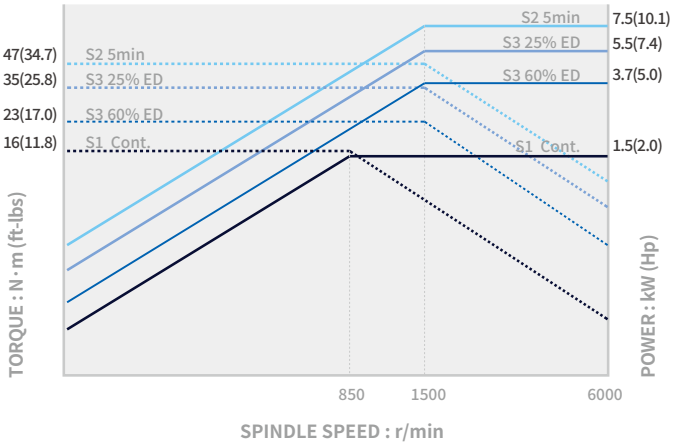


SIEMENS

Main spindle Lynx 2600/M



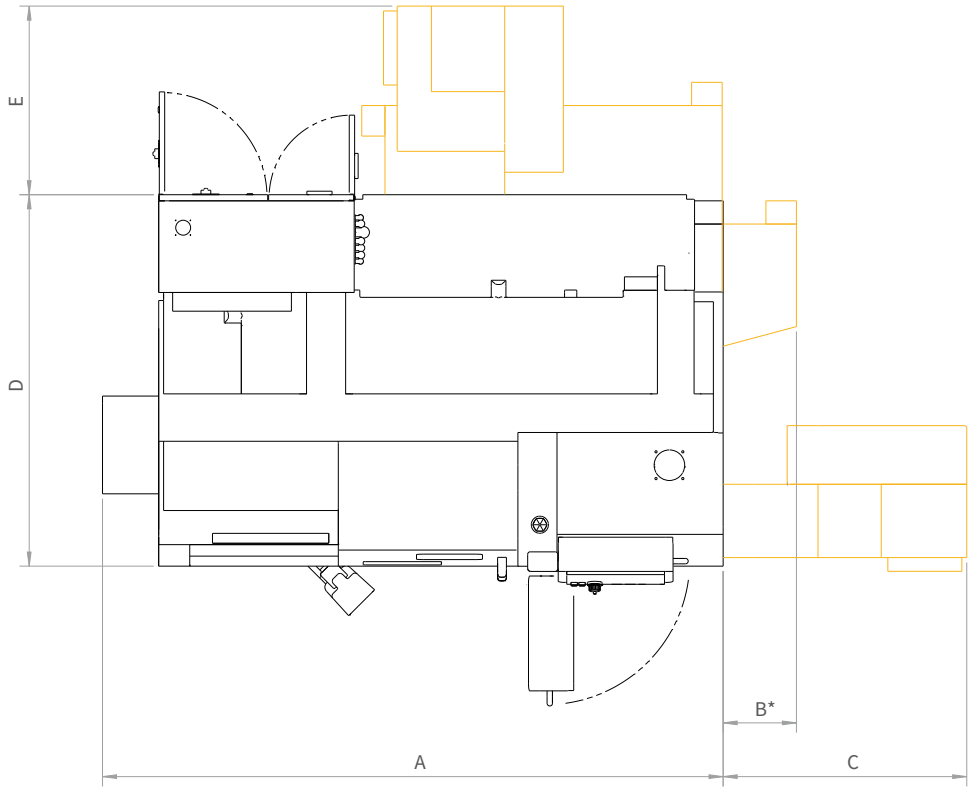
Rotary tool Lynx 2600/M



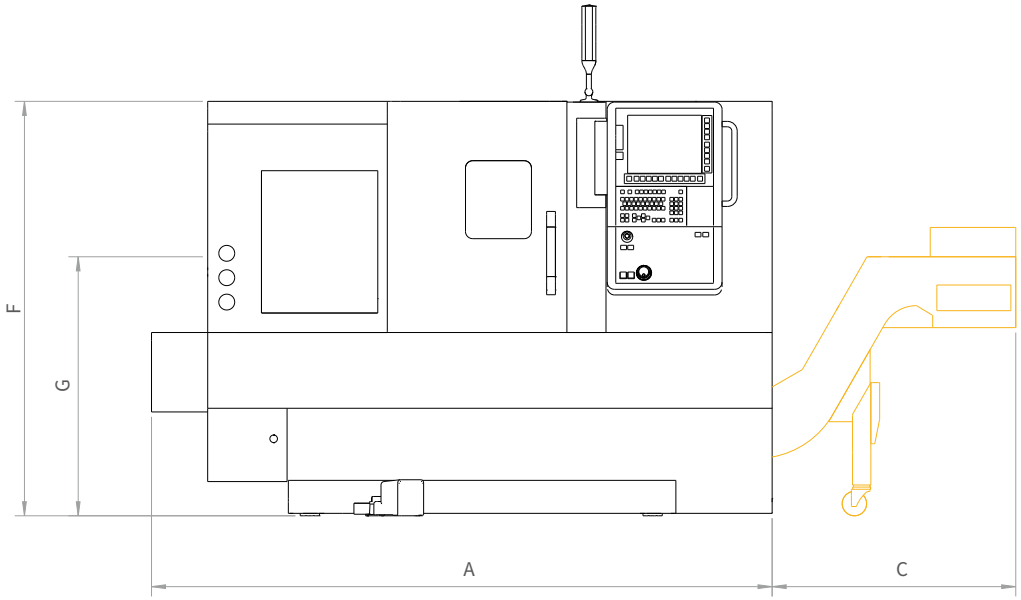
EXTERNAL DIMENSIONS

Unit : mm(inch)

TOP



FRONT



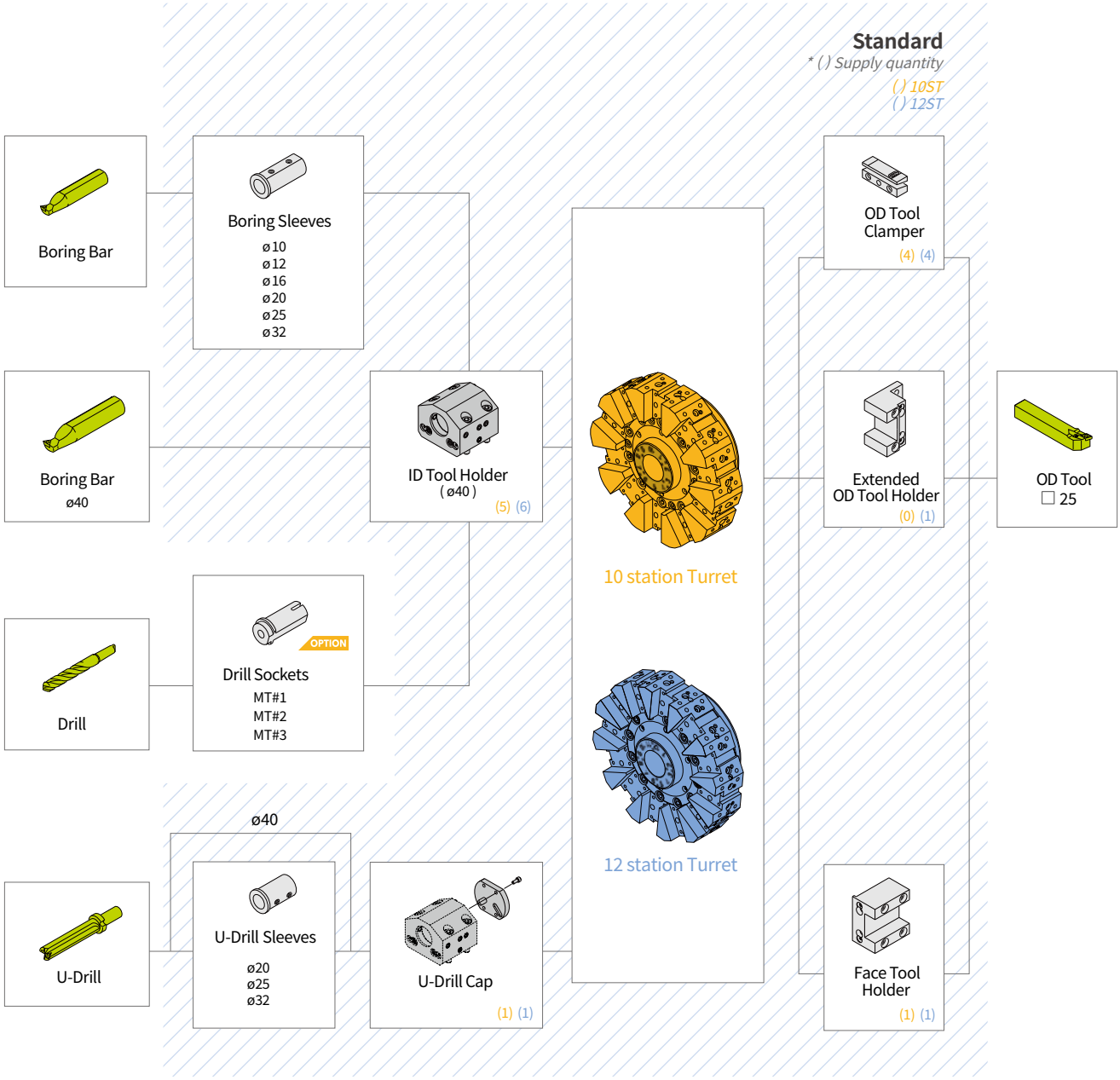
Model	A	B* High Pressure Coolant Pump[14.5/20bar]	C Right SideChip Conveyor	D	E Rear SideChip Conveyor	F	G Spindle Center
Lynx 2100 A/MA	2320 (91.3)	300 (11.8)	953 (37.5)	1595 (62.8)	770 (30.3)	1693 (66.7)	1060 (41.7)
Lynx 2100 B/MB	2350 (92.5)	300 (11.8)	953 (37.5)	1595 (62.8)	770 (30.3)	1693 (66.7)	1060 (41.7)
Lynx 2100 LA/LMA	2540 (100)	300 (11.8)	997 (39.3)	1595 (62.8)	770 (30.3)	1693 (66.7)	1060 (41.7)
Lynx 2100 LB/LMB	2570 (101.2)	300 (11.8)	997 (39.3)	1595 (62.8)	770 (30.3)	1693 (66.7)	1060 (41.7)
Lynx 2100 LC/LMC	2570 (101.2)	300 (11.8)	997 (39.3)	1595 (62.8)	770 (30.3)	1693 (66.7)	1060 (41.7)
Lynx 2100 LMSA	2807 (110.5)	100 (3.9)	997 (39.3)	1595 (62.8)	770 (30.3)	1693 (66.7)	1060 (41.7)
Lynx 2100 LMSB/LMSC	2837 (111.7)	100 (3.9)	993 (39.1)	1595 (62.8)	770 (30.3)	1693 (66.7)	1060 (41.7)
Lynx 26000 /M	3290 (129.5)	-	928 (36.5)	1665 (65.6)	1177 (46.3)	1790 (70.5)	1060 (41.7)

**Applies only to the right side coolant tank and high pressure coolant pump(14.5/20bar) of Lynx 2100 series.*
*** Some peripheral equipment can be placed in other places.*

TOOLING SYSTEM

Lynx 2100 A / LA / B / LB / LC (10/12각)

Unit : mm(inch)

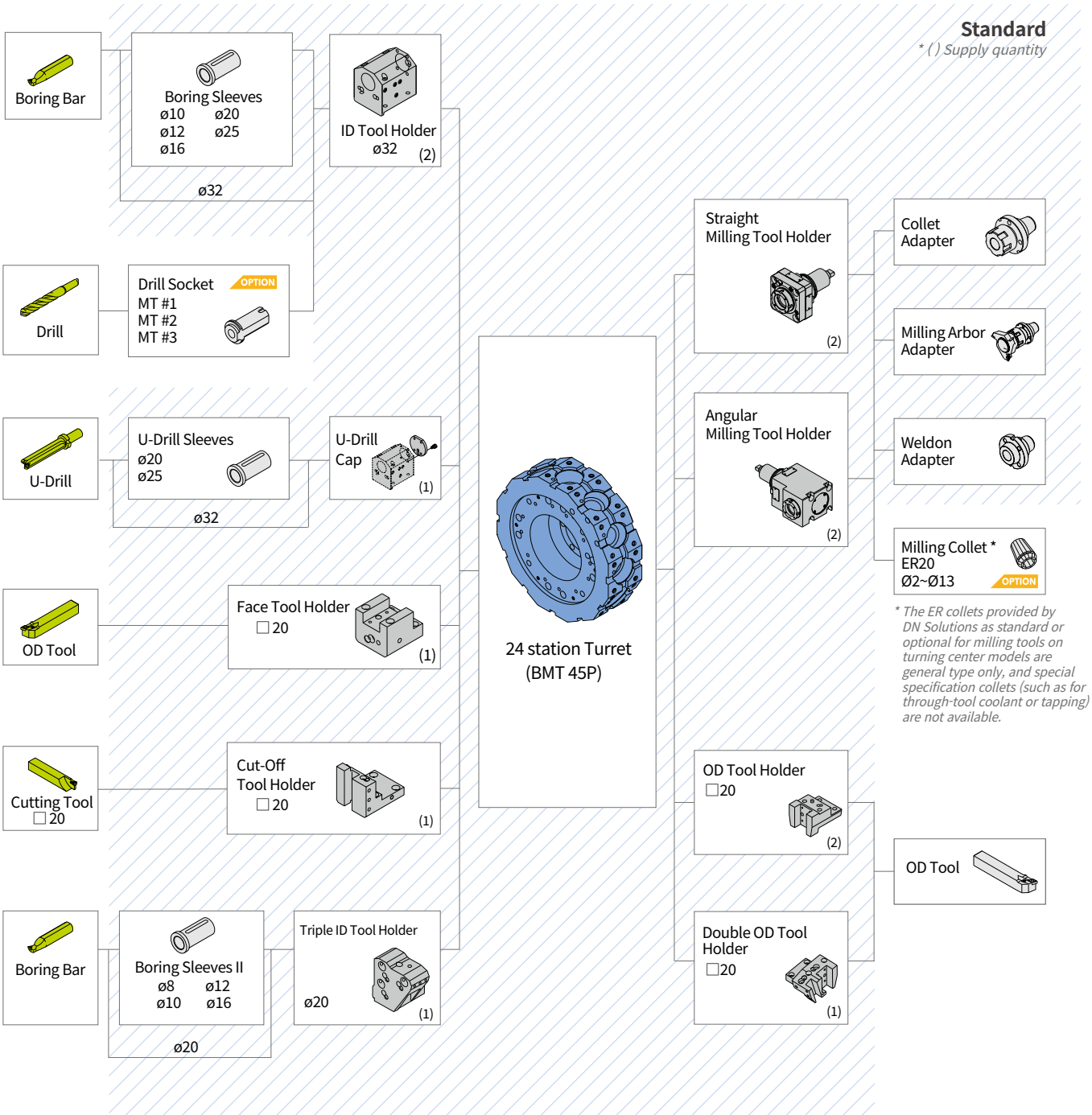


TOOLING SYSTEM

Lynx 2100MA / MB / LMA / LMB / LMC (BMT45P)

Unit : mm(inch)

24 station



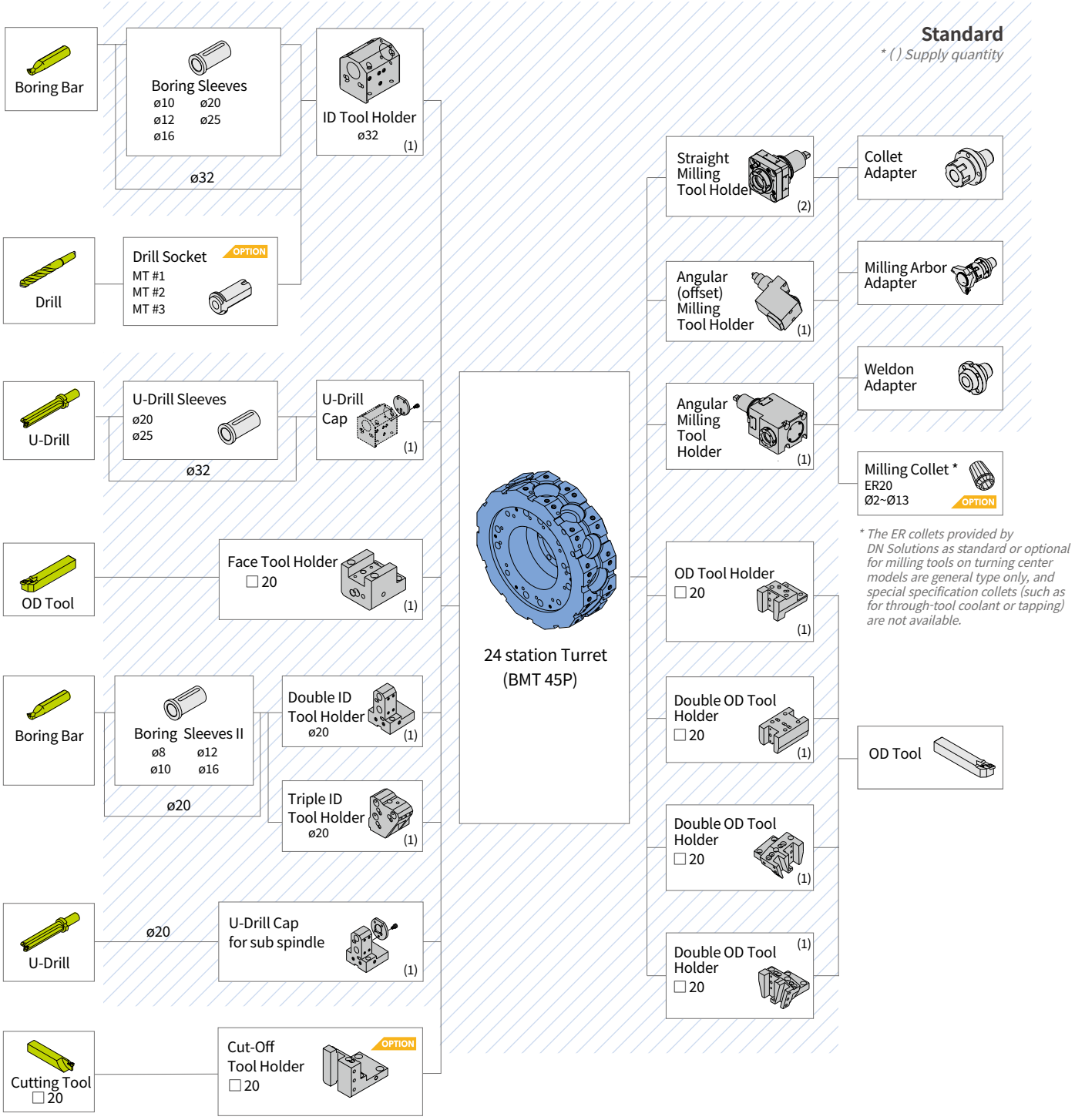
** The ER collets provided by DN Solutions as standard or optional for milling tools on turning center models are general type only, and special specification collets (such as for through-tool coolant or tapping) are not available.*

TOOLING SYSTEM

Lynx 2100LMSA / LMSB / LMSC (BMT45P)

Unit : mm(inch)

24 station

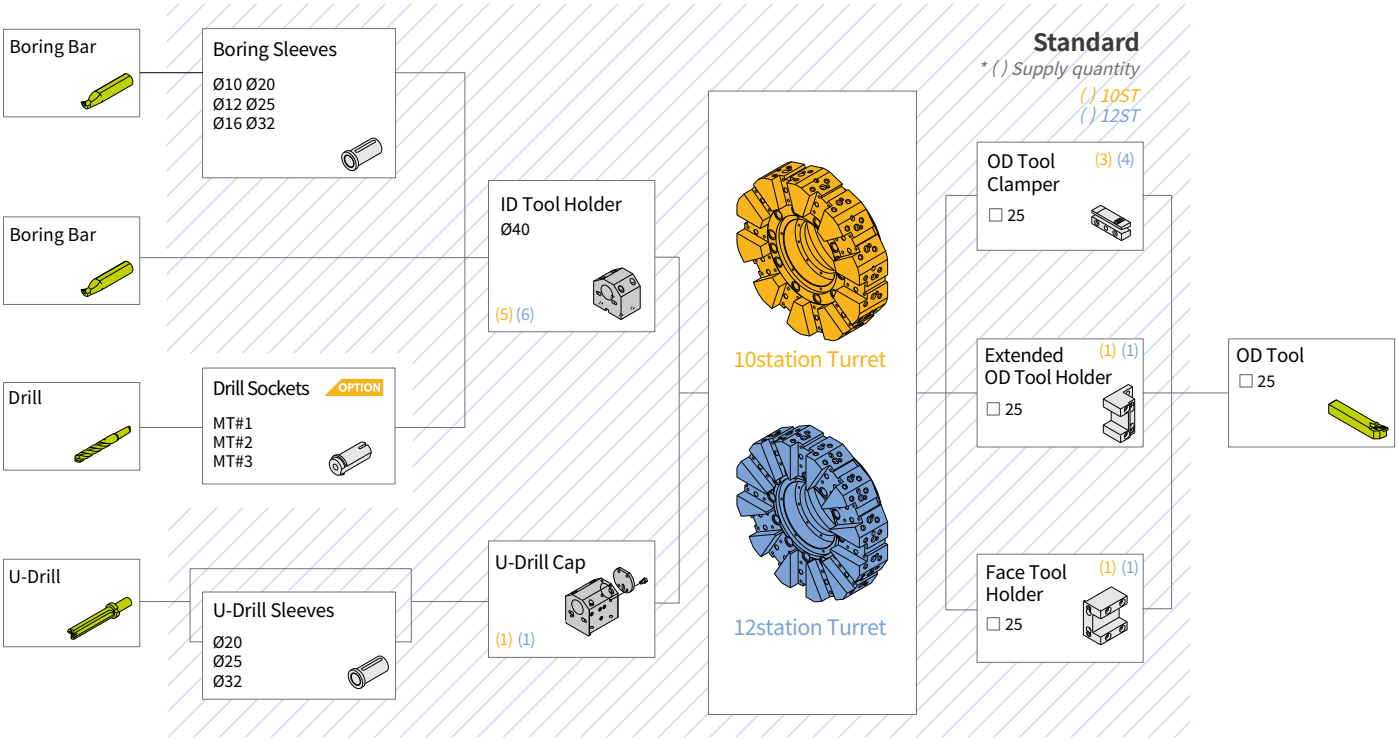


** The ER collets provided by DN Solutions as standard or optional for milling tools on turning center models are general type only, and special specification collets (such as for through-tool coolant or tapping) are not available.*

TOOLING SYSTEM

Lynx 2600

Unit : mm(inch)

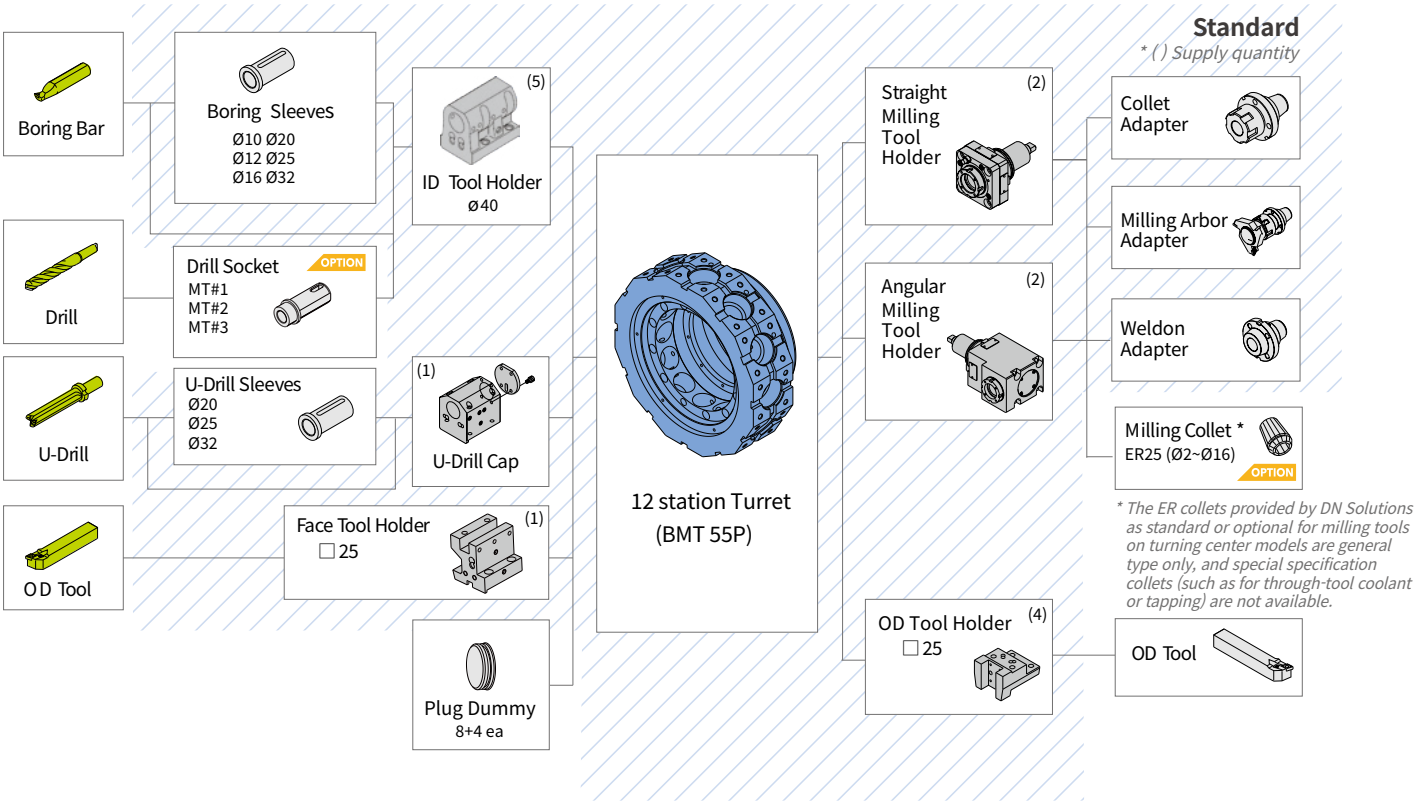


TOOLING SYSTEM

Lynx 2600M

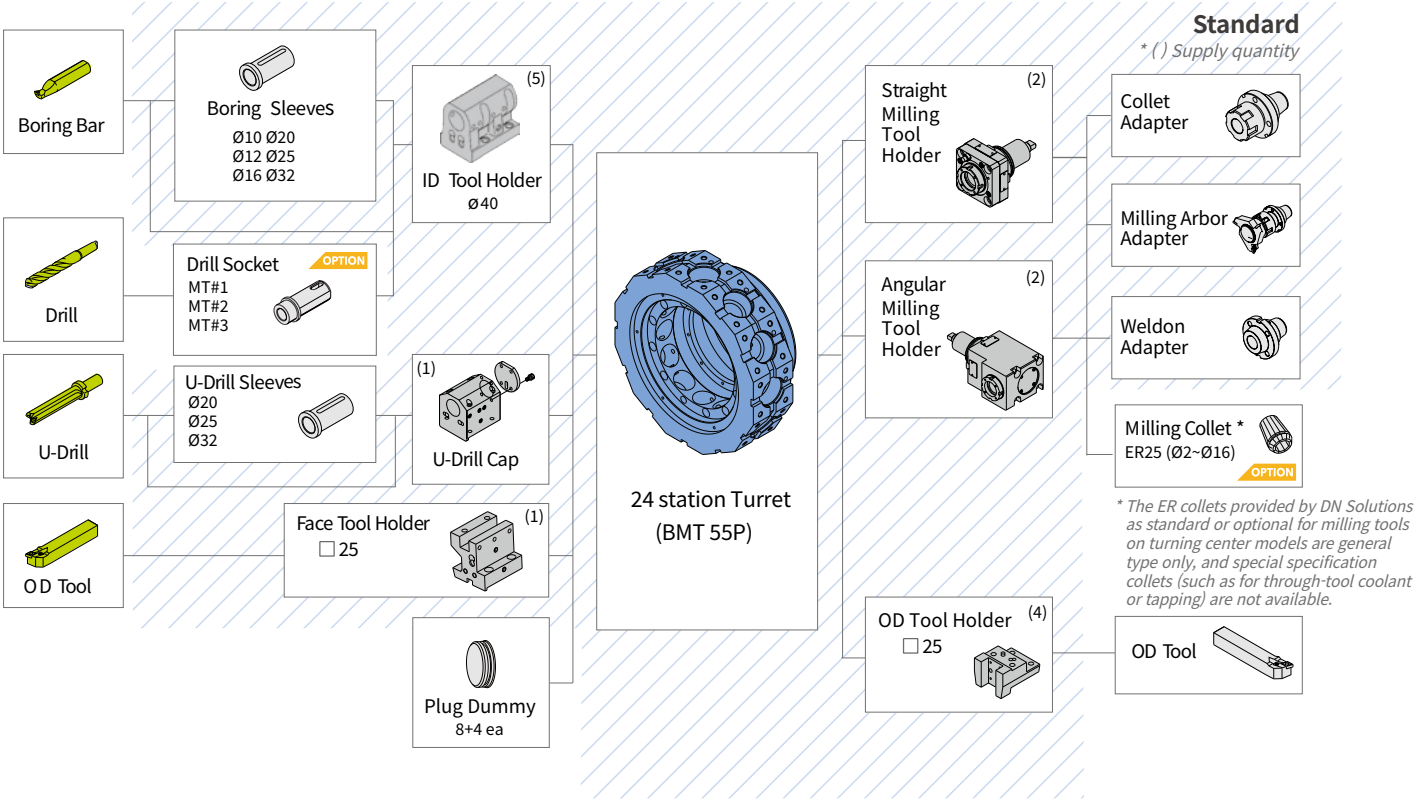
Unit : mm(inch)

12 station



* The ER collets provided by DN Solutions as standard or optional for milling tools on turning center models are general type only, and special specification collets (such as for through-tool coolant or tapping) are not available.

24 station



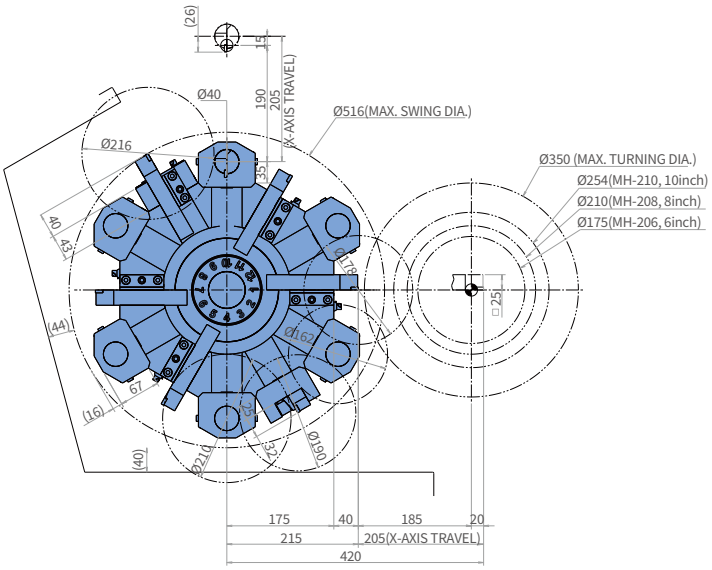
* The ER collets provided by DN Solutions as standard or optional for milling tools on turning center models are general type only, and special specification collets (such as for through-tool coolant or tapping) are not available.

TOOL INTERFACE

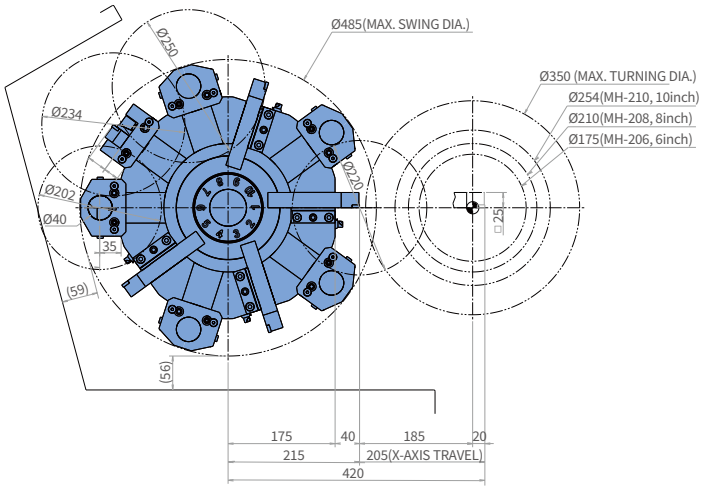
Unit : mm(inch)

Lynx 2100A / B / LA / LB / LC

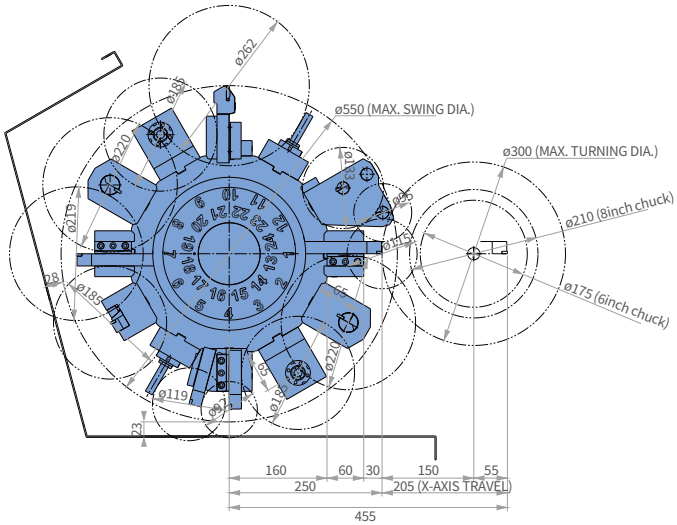
12st.



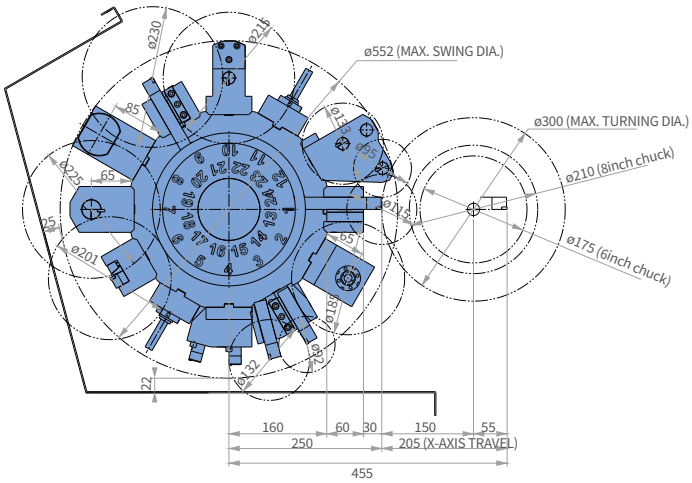
10st.



Lynx 2100MA / MB / LMA / LMB / LMC



Lynx 2100LMSA / LMSB / LMSC

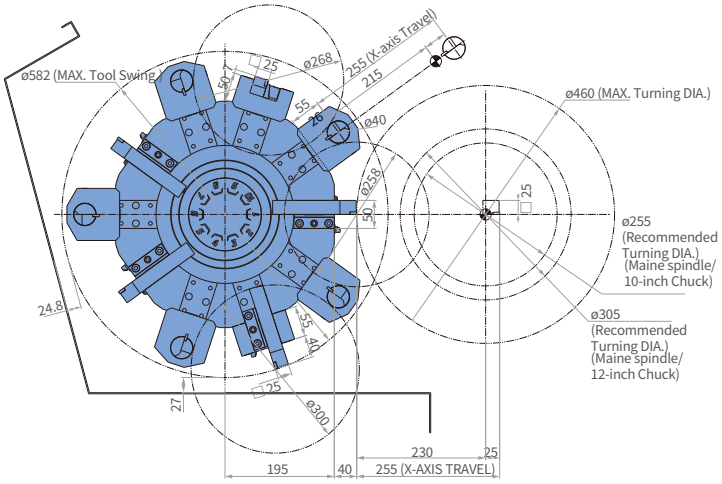


TOOL INTERFACE

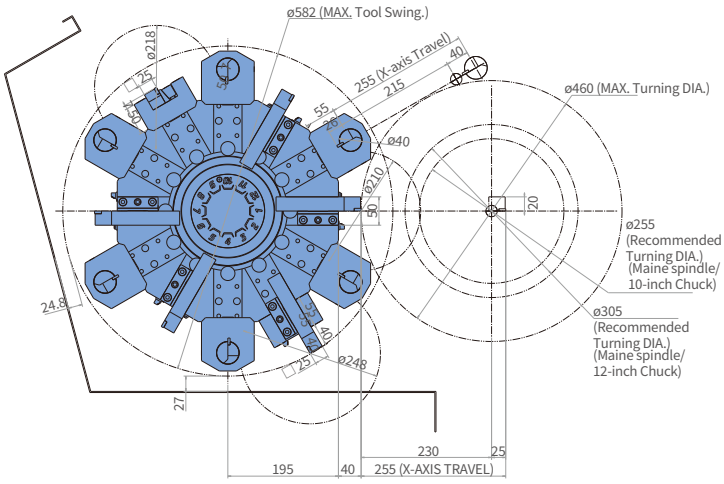
Unit : mm(inch)

Lynx 2600

10 st.

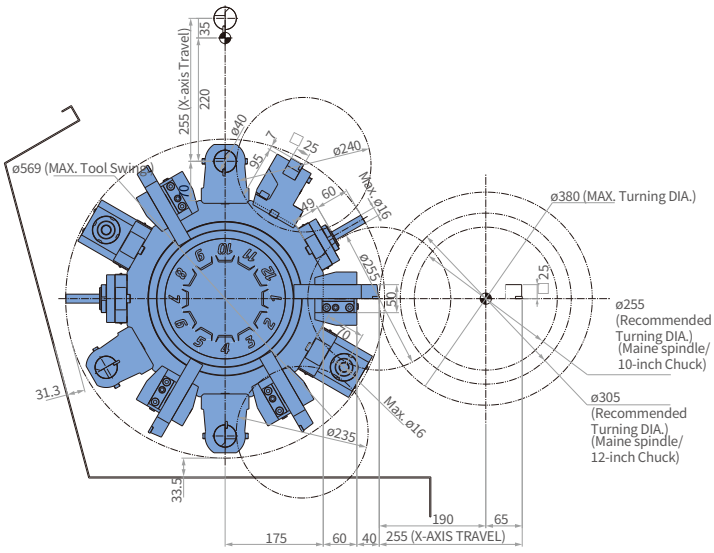


12 st. OPTION

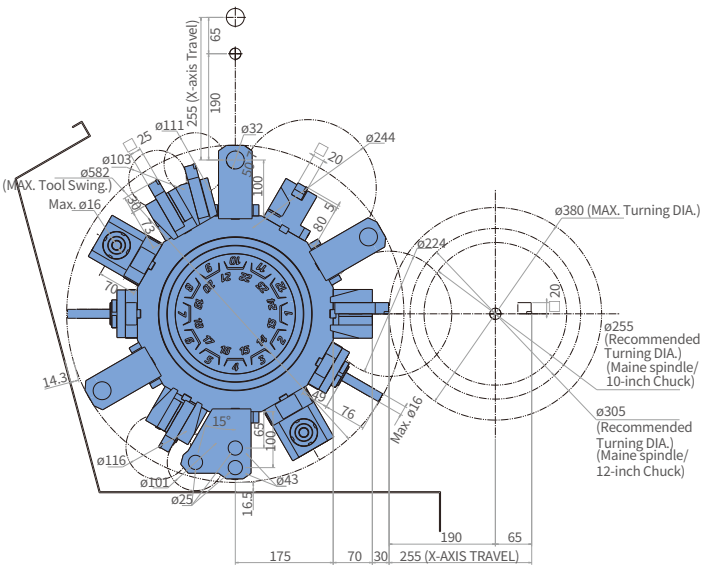


Lynx 2600M

12 st.



24 st. OPTION

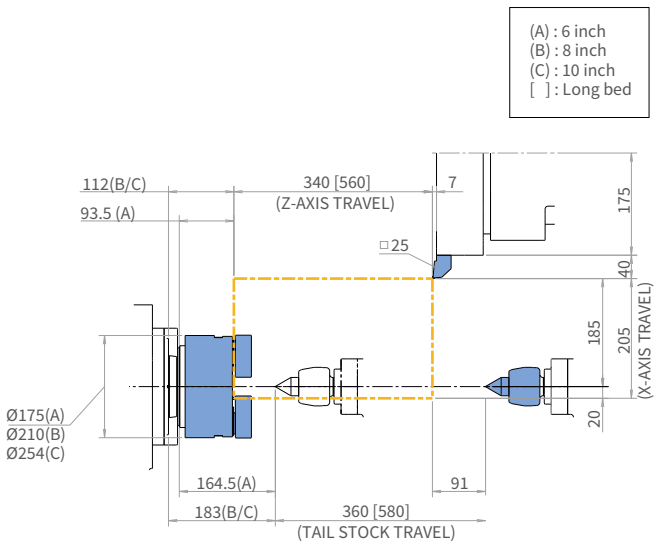


WORKING RANGE

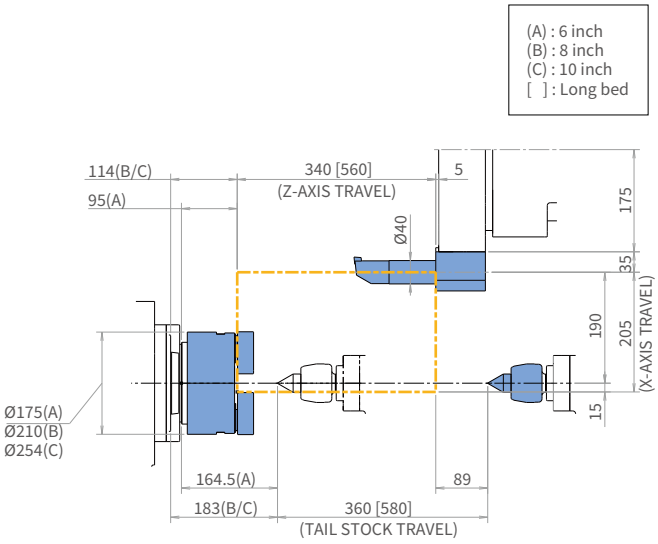
Lynx 2100A / B [LA / LB / LC]_10 / 12 station

Unit : mm(inch)

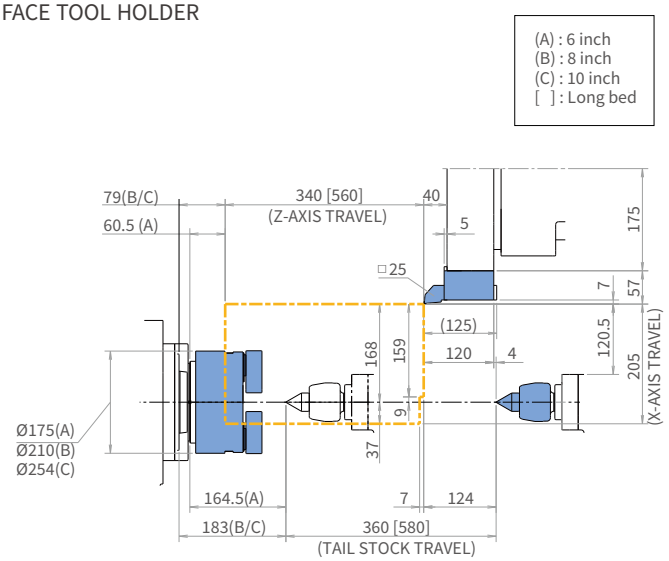
OD HOLDER



ID HOLDER

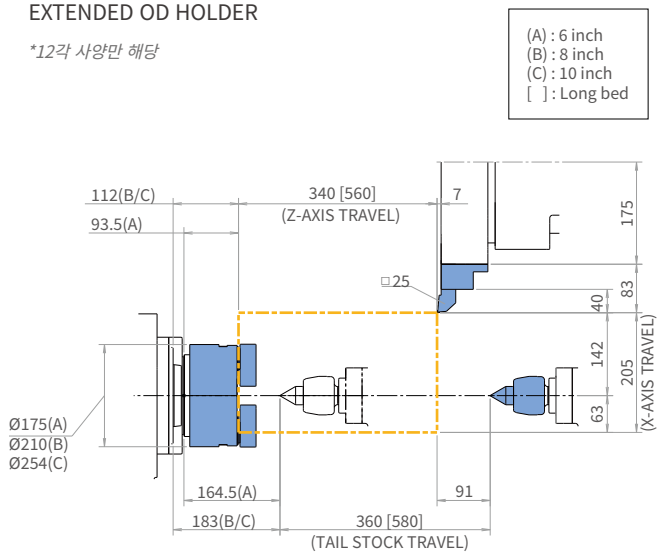


FACE TOOL HOLDER



EXTENDED OD HOLDER

**12각 사양만 해당*

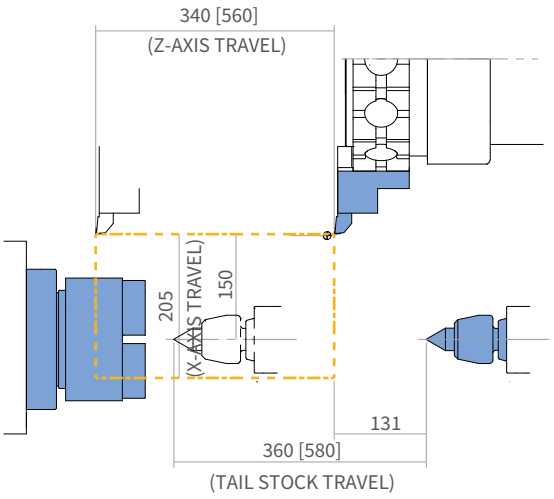


WORKING RANGE

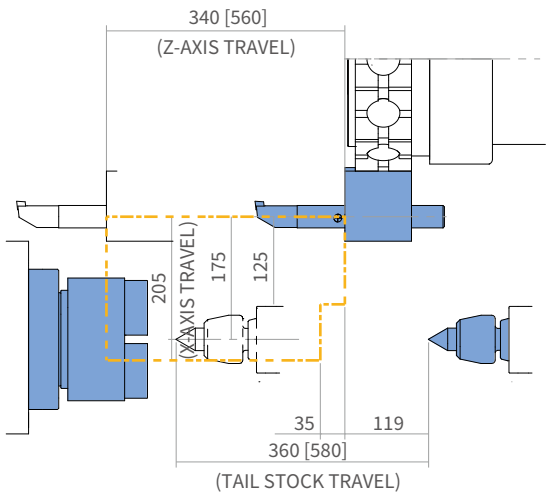
Lynx 2100MA / MB [LMA / LMB / LMC]_24 station

Unit : mm(inch)

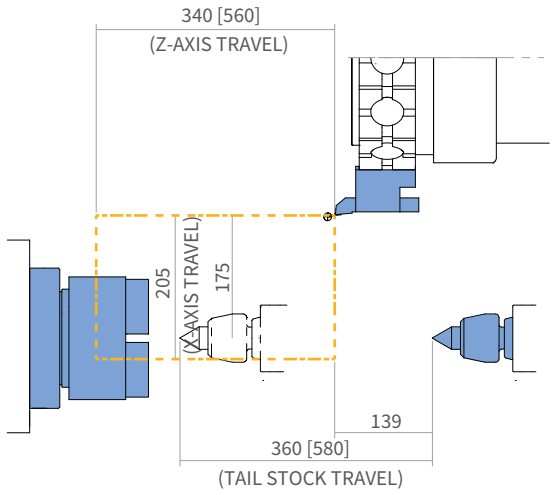
OD HOLDER



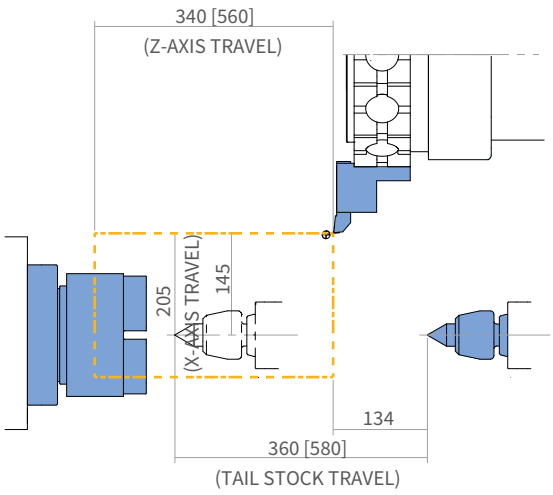
ID HOLDER



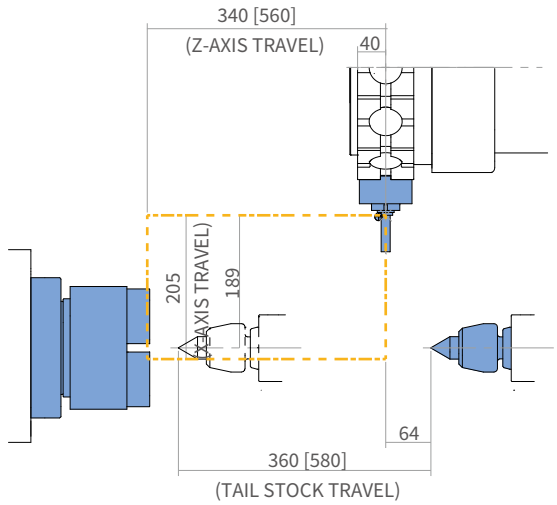
FACE TOOL HOLDER



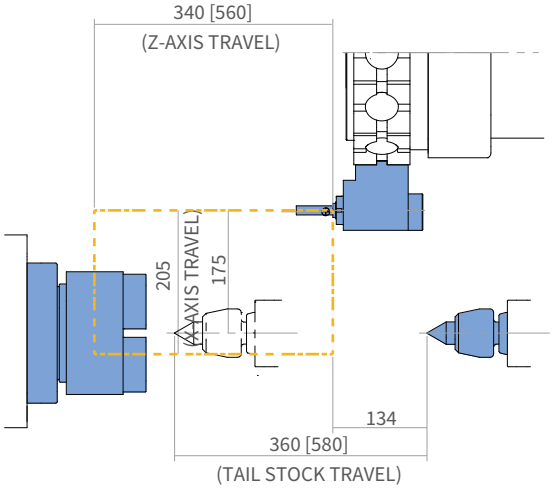
DOUBLE OD HOLDER



STRAIGHT MILLING HOLDER



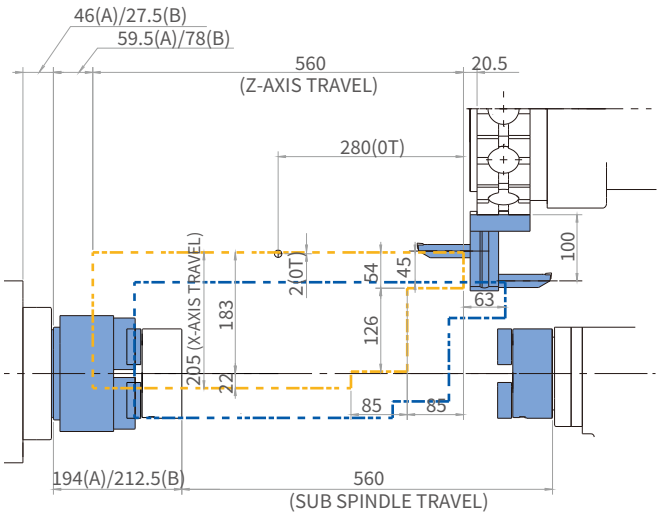
ANGULAR MILLING HOLDER



WORKING RANGE

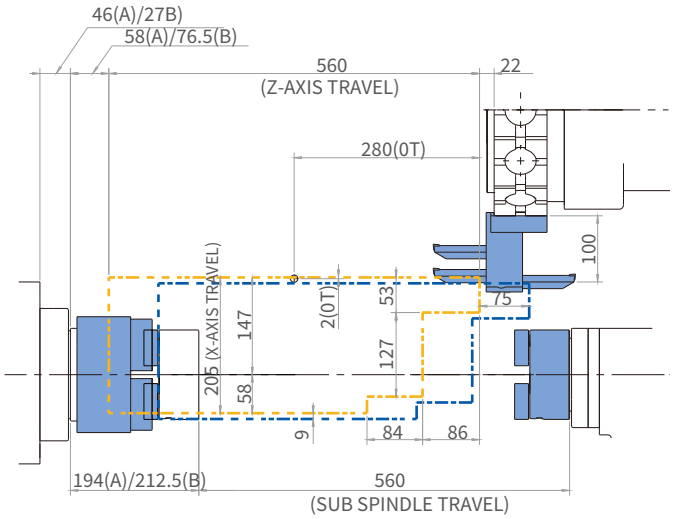
Lynx 2100LMSA / LMSB / LMSC_24 station

DOUBLE ID HOLDER

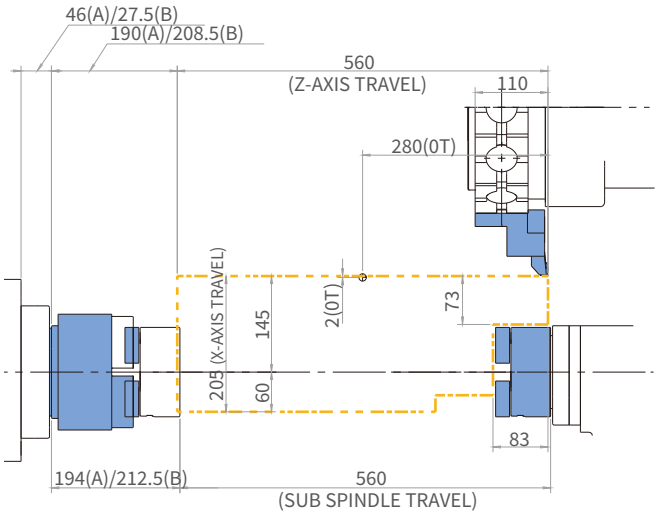


TRIPLE ID HOLDER

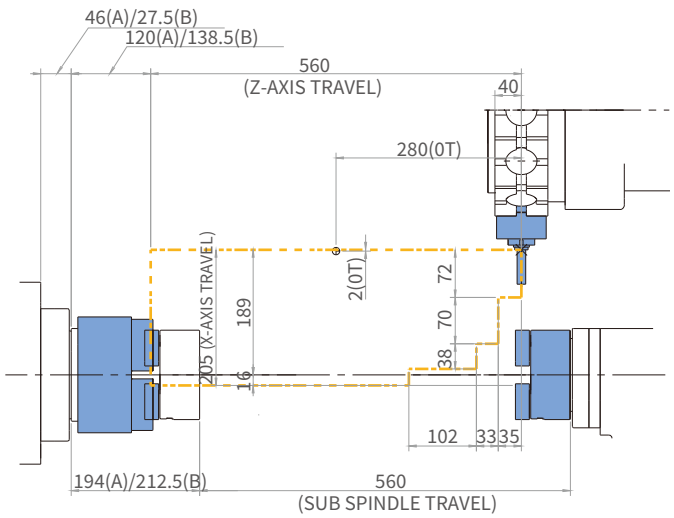
Unit : mm(inch)



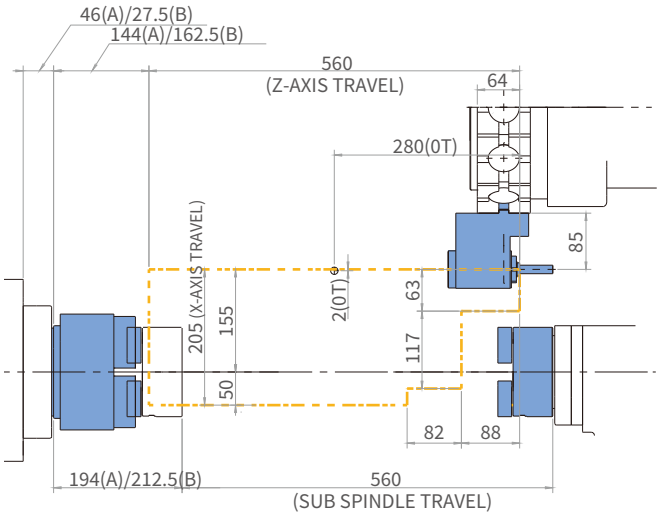
DOUBLE OD HOLDER (SUB)



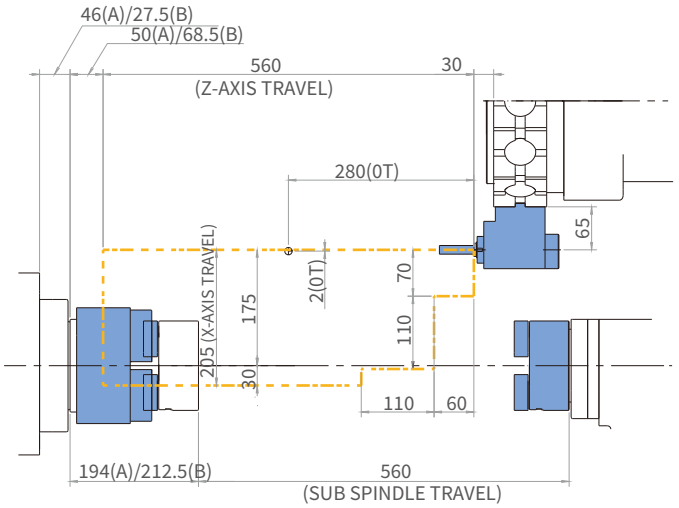
STRAIGHT MILLING HOLDER



ANGULAR MILLING HOLDER (OFFSET)



ANGULAR MILLING HOLDER



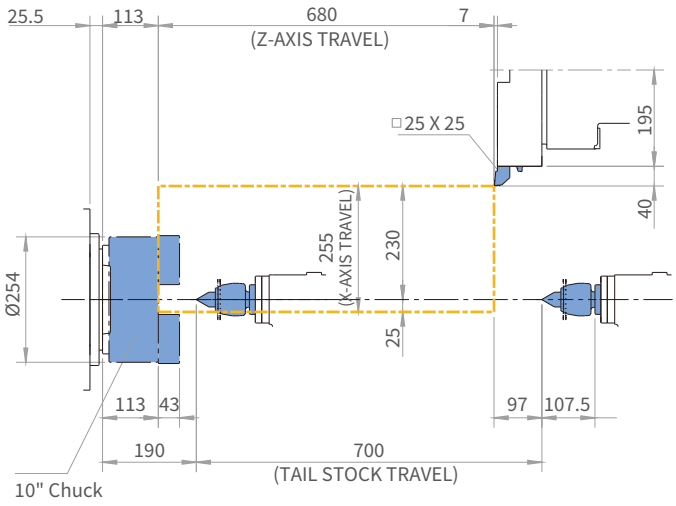
WORKING RANGE

Lynx 2600_10 / 12 station

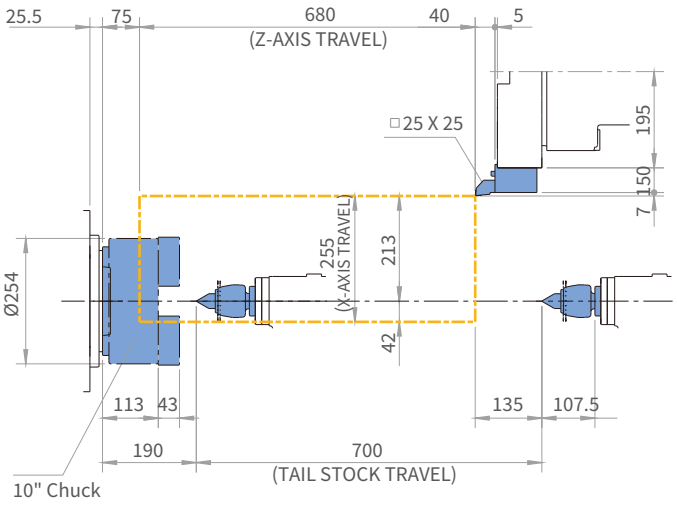
Unit : mm(inch)

TAIL STOCK (Live Center)

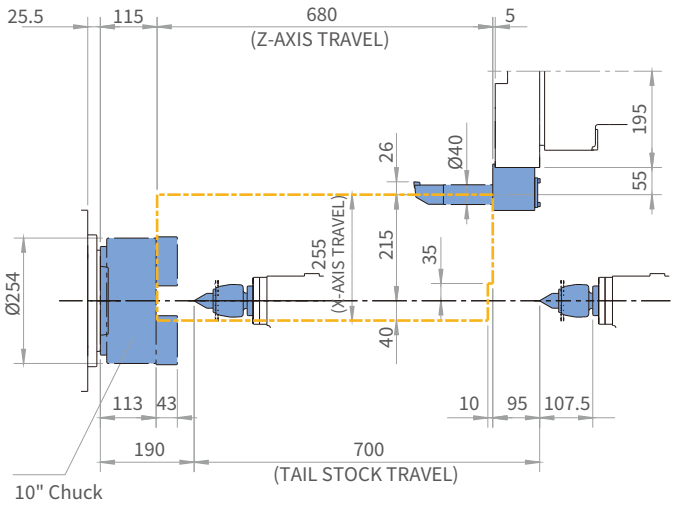
OD HOLDER



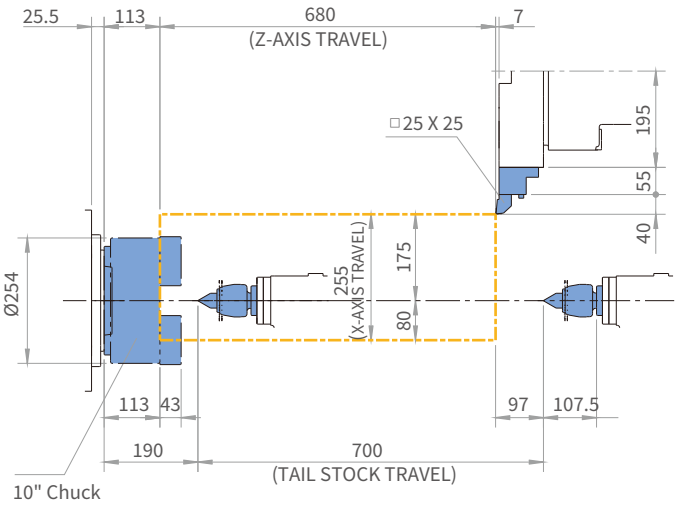
FACE HOLDER



ID HOLDER



EXTENDED OD HOLDER



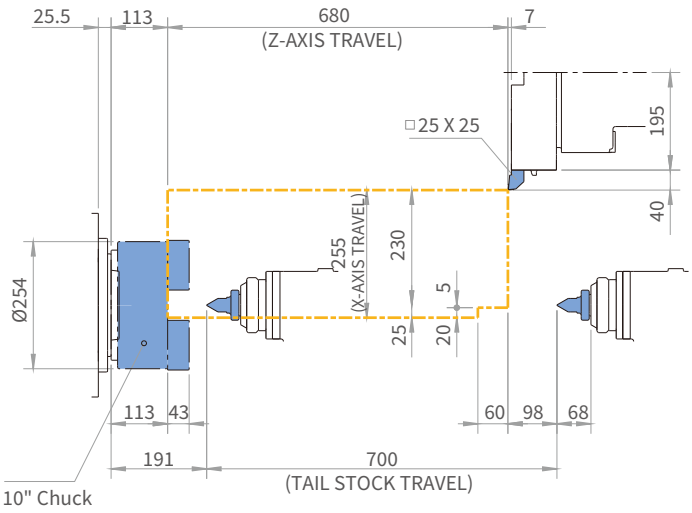
WORKING RANGE

Lynx 2600_10 / 12 station

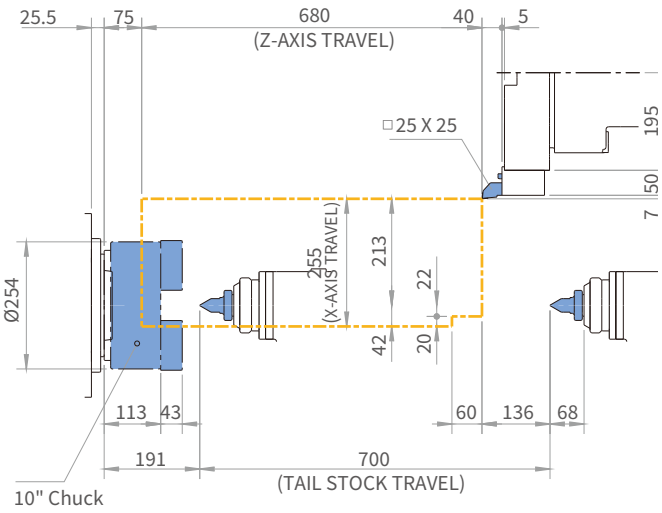
Unit : mm(inch)

TAIL STOCK (Dead Center) OPTION

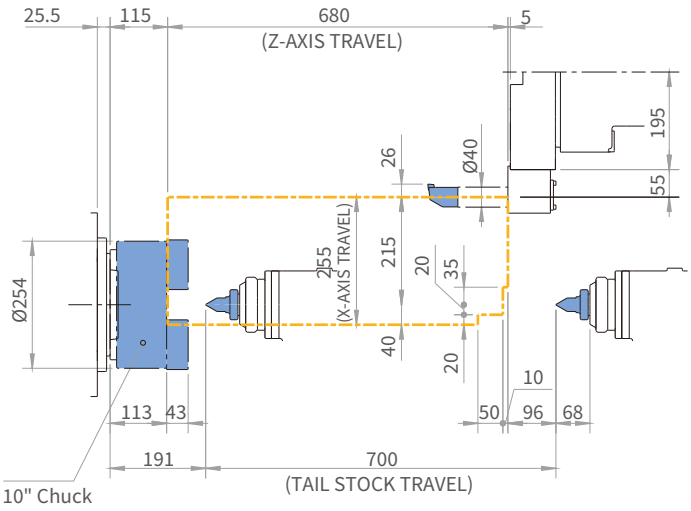
OD HOLDER



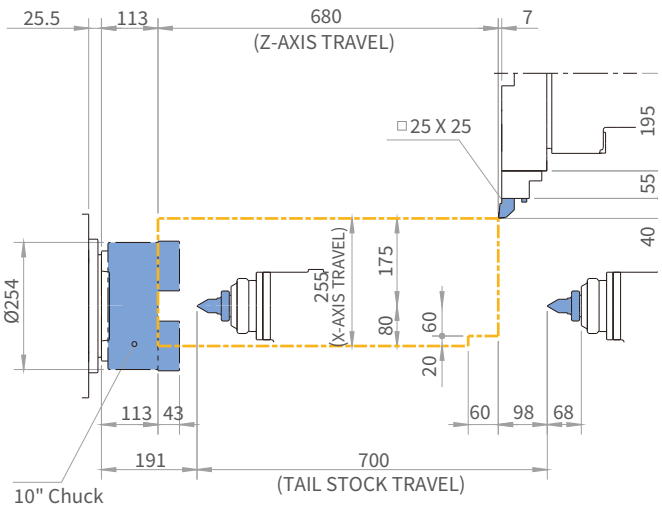
FACE HOLDER



ID HOLDER



EXTENDED OD HOLDER



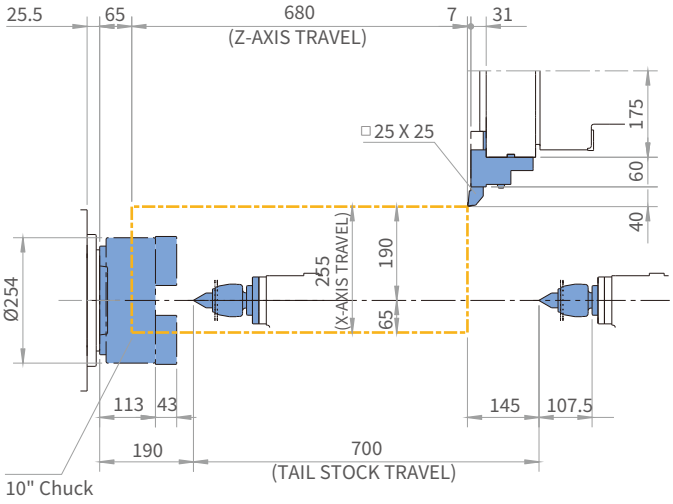
WORKING RANGE

Lynx 2600M_12 station

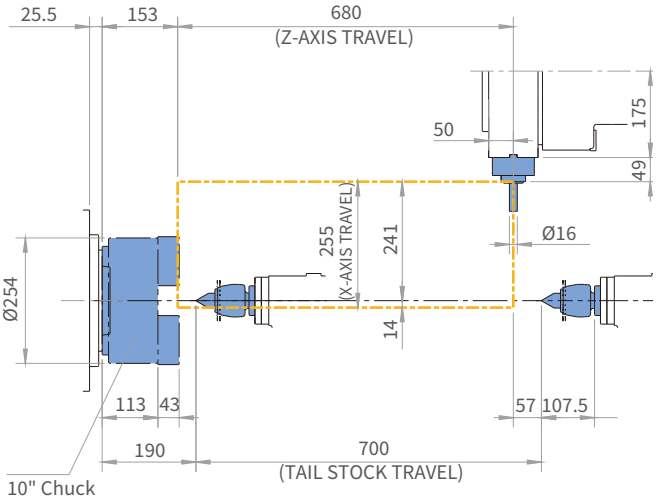
TAIL STOCK (Live Center)

Unit : mm(inch)

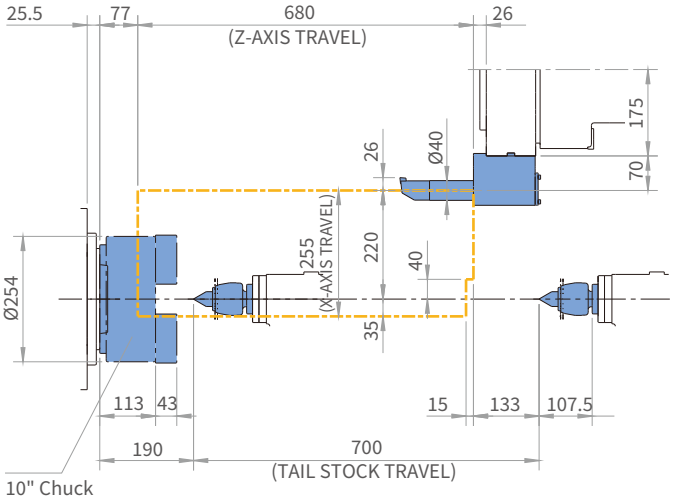
OD HOLDER



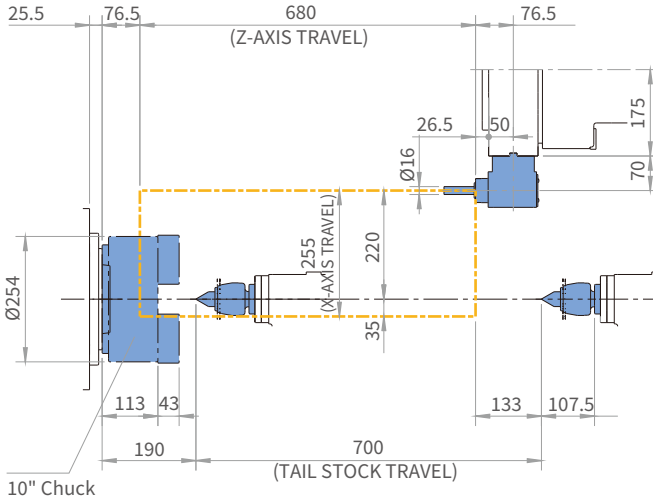
STRAIGHT MILLING HOLDER



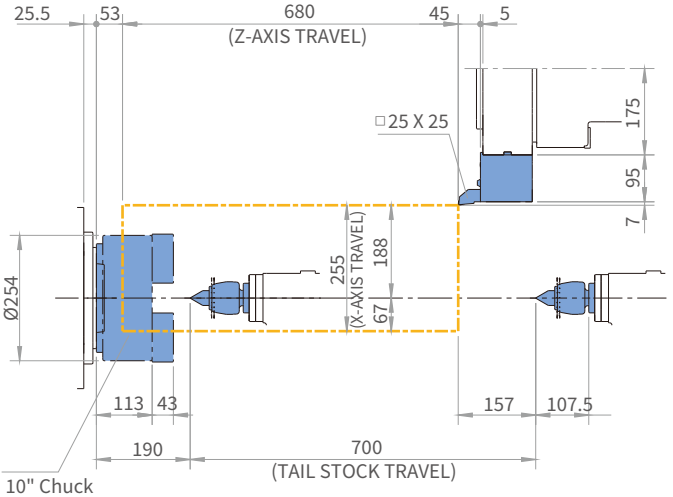
ID HOLDER



ANGULAR MILLING HOLDER



FACE TOOL HOLDER

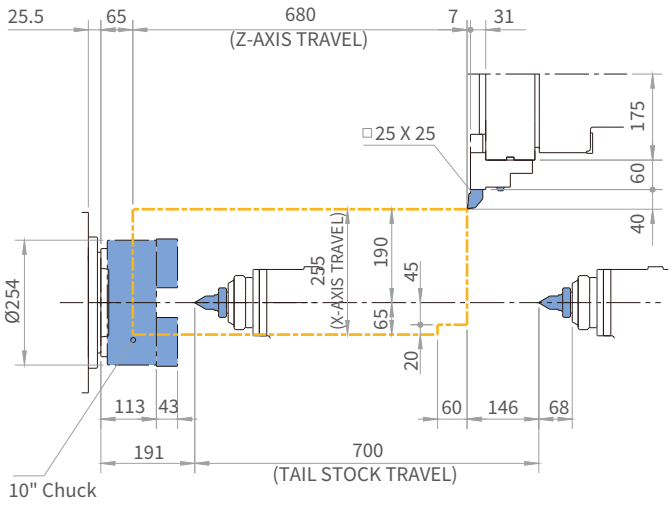


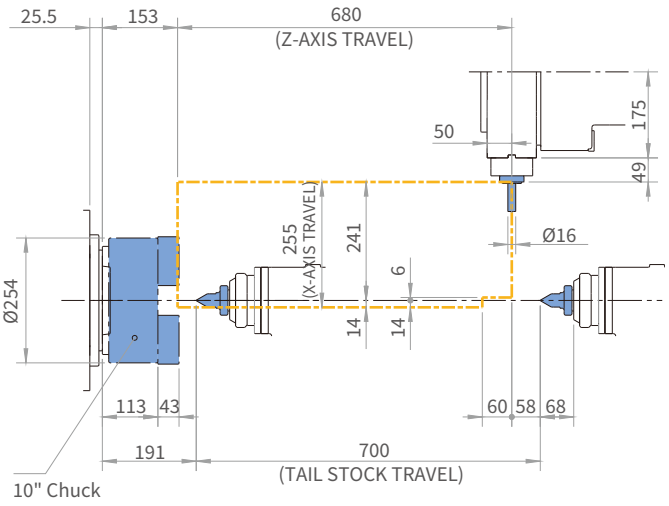
WORKING RANGE

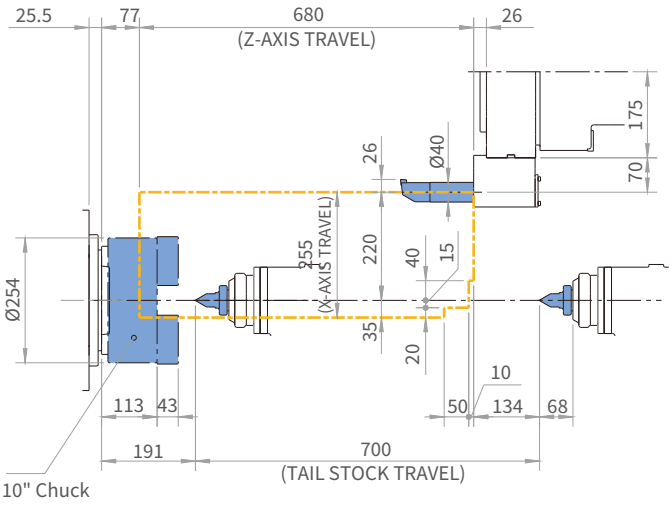
Lynx 2600M_12 station

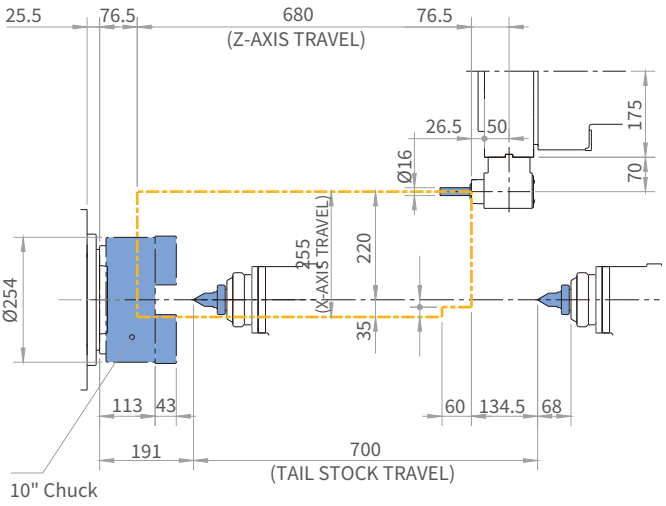
TAIL STOCK (Dead Center) OPTION

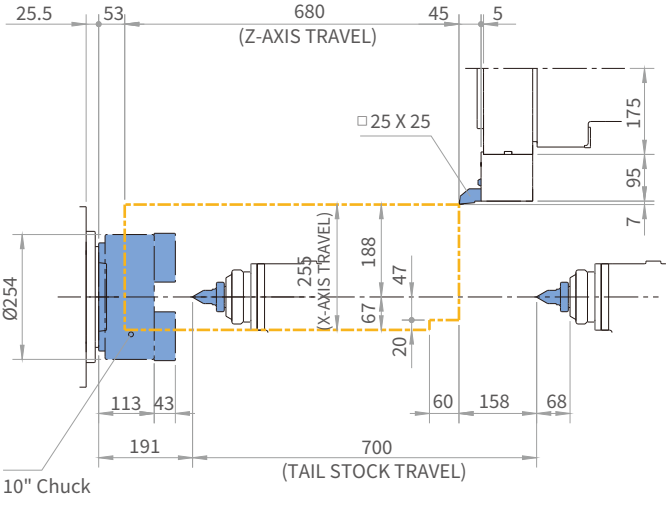
Unit : mm(inch)











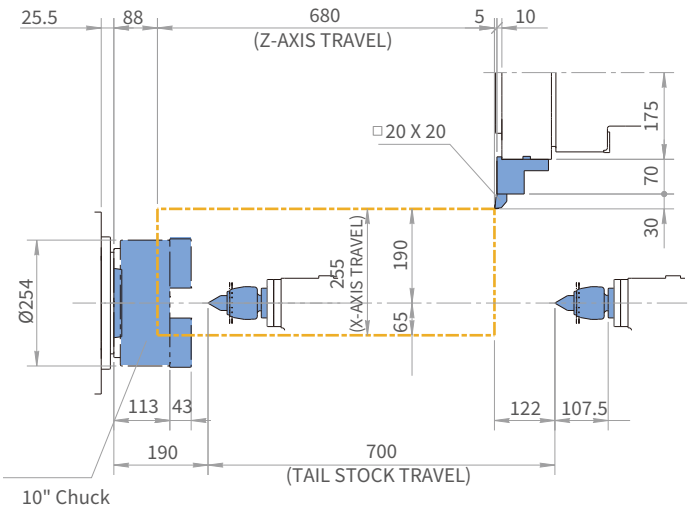
WORKING RANGE

Lynx 2600M_24 station

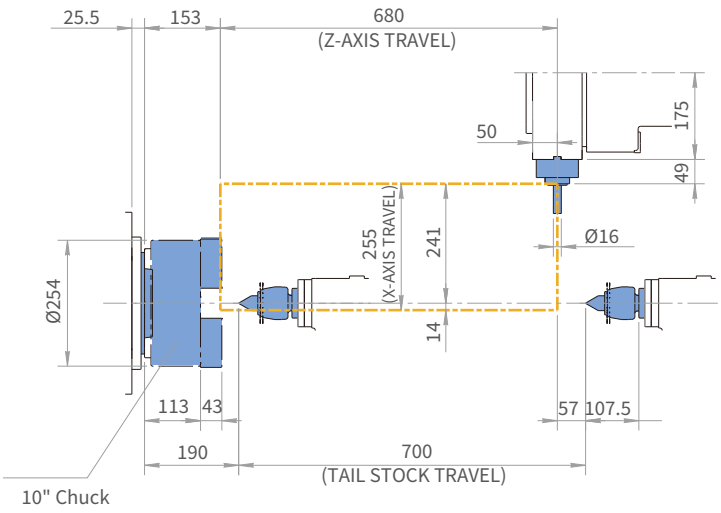
TAIL STOCK (Live Center)

Unit : mm(inch)

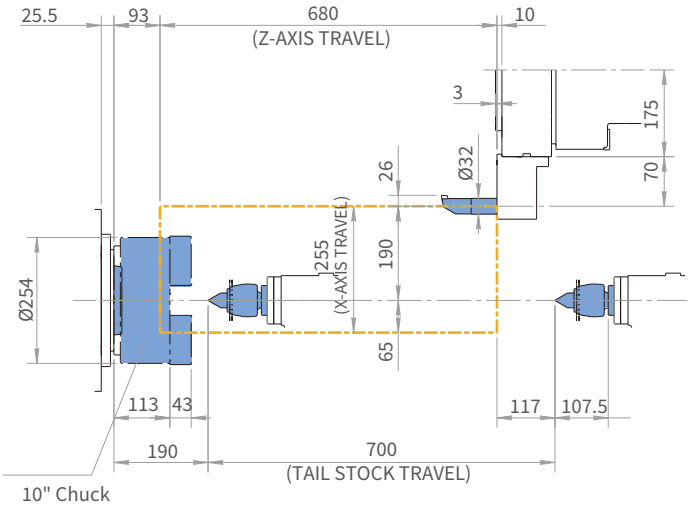
OD HOLDER



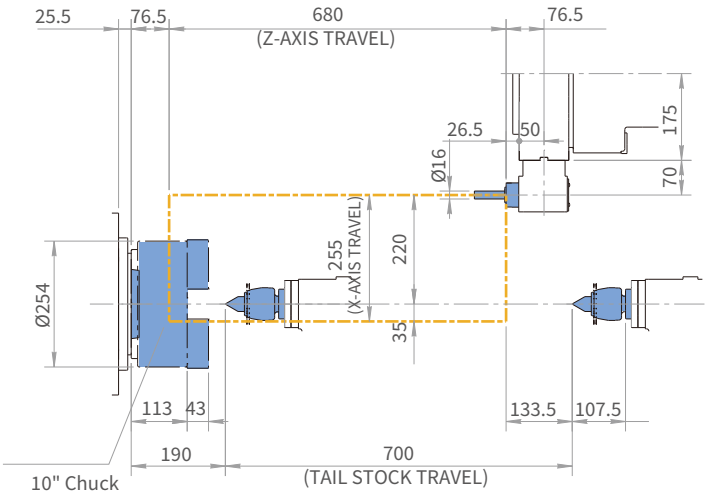
STRAIGHT MILLING HOLDER



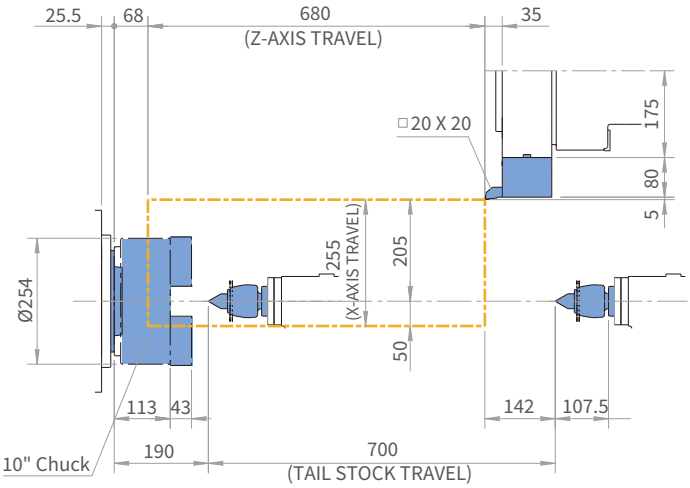
ID HOLDER



ANGULAR MILLING HOLDER



FACE TOOL HOLDER

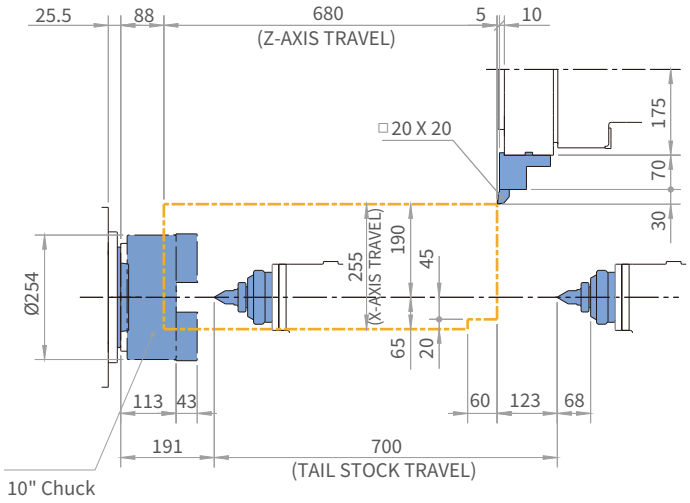


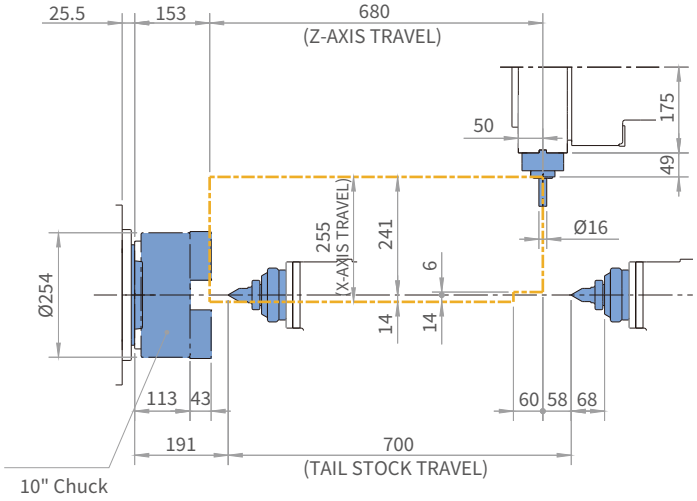
WORKING RANGE

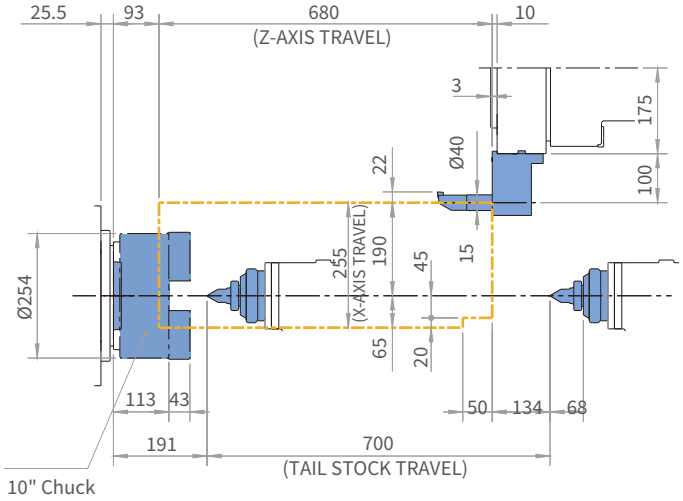
Lynx 2600M_24 station

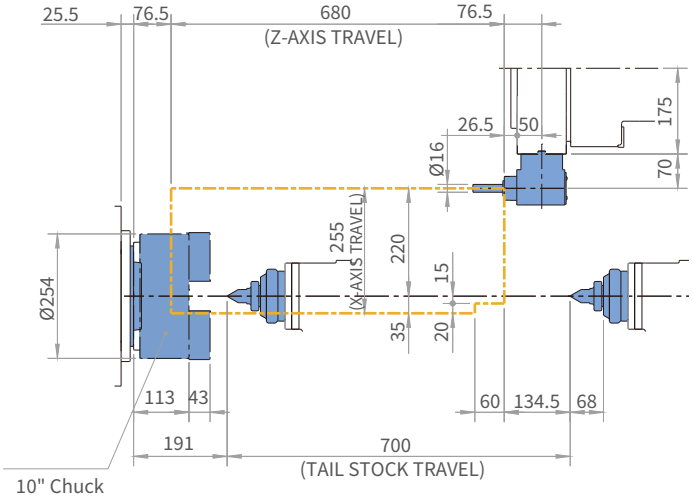
TAIL STOCK (Dead Center) OPTION

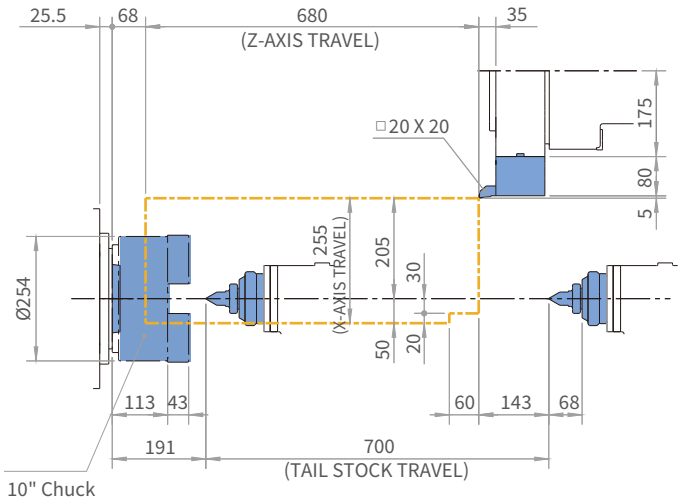
Unit : mm(inch)











MACHINE SPECIFICATIONS

Description			Unit	Lynx 2100A [NT]/LA	Lynx 2100MA [NT]/LMA	Lynx 2100LMSA	Lynx 2100B [NT]/LB	Lynx 2100MB [NT]/LMB	Lynx 2100LMSB
Capacity	Swing over bed		mm (inch)	600 (23.6)			600 (23.6)		
	Swing over saddle		mm (inch)	400 (15.7)			400 (15.7)		
	Recommended turning diameter		mm (inch)	170 (6.7)			210 (8.3)		
	Max. turning diameter		mm (inch)	350 (13.8)	300 (11.8)		350 (13.8)	300 (11.8)	
	Max. turning length		mm (inch)	330 [550] (13.0 [21.7])	290 [510] (11.4 [20.1])	510 (20.1)	330 [550] (13.0 [21.7])	290 [510] (11.4 [20.1])	510 (20.1)
	Chuck size		inch	6 {8}*			8 {10}*	8 {10}*	
	Bar working diameter		mm (inch)	51 (2.0)			67 (2.6)		
Travel	Travel distance	X-axis	mm (inch)	205 (8.1)			205 (8.1)		
		Z-axis	mm (inch)	340 [560] (13.4 [22.0])		560	340 [560] (13.4 [22.0])		560 (22.0)
Feedrate	Rapid traverse	X-axis	m/min (ipm)	30 (1181.1)			30 (1181.1)		
		Z-axis	m/min (ipm)	36 (1417.3)			36 (1417.3)		
Spindle	Spindle speed		r/min	6000			4500		
	Spindle moter power (FANUC)		kW (Hp)	15/11/11 (20.1/14.8/14.8) (S3 25%/S3 60%/S1 Cont.)			15/11/11 (20.1/14.8/14.8) (S3 25%/S3 60%/S1 Cont.)		
	Spindle moter power (SIEMENS)		kW (Hp)	12.6/10.5 (16.9/14.1) (S6 60%/S1 Cont.)			12.6/10.5 (16.9/14.1) (S6 60%/S1 Cont.)		
	Max. spindle torque (FANUC)		N·m (ft-lbs)	127 (93.7)			169 (124.6)		
	Max. spindle torque (SIEMENS)		N·m (ft-lbs)	100 (73.7)			134 (98.3)		
	Spdinel nose		ASA	A2-5			A2-6		
	Spindle bearing diameter		mm (inch)	90 (3.5)			110 (4.3)		
	Spindle inner diameter		mm (inch)	61 (2.4)			76 (3.0)		
	C-axis min.indexing angle		deg	-	0.001		-	0.001	
Turret	No.of tool stations		ea	12{10}	12		12{10}	12	
	OD tool size		mm (inch)	□25 x 25 (1.0 x 1.0)	□20 x 20 (0.8 x 0.8)		□25 x 25 (1.0 x 1.0)	□20 x 20 (0.8 x 0.8)	
	Max.ID tool size		mm (inch)	Ø40 (Ø1.6)	Ø32 (Ø1.3)		Ø40 (Ø1.6)	Ø32 (Ø1.3)	
	Turret indexing time		s	0.11 {0.15}*	0.11		0.11 {0.15}*	0.11	
	Max.rotary tool speed		r/min	-	6000 {10000}*		-	6000 {10000}*	
	Ratary tool motor power (FANUC)		kW (Hp)	-	3.7/1.1 (5.0/1.5) (S3 25%/S1 Cont.)		-	3.7/1.1 (5.0/1.5) (S3 25%/S1 Cont.)	
	Ratary tool motor power (SIEMENS)		kW (Hp)	-	4.9/4.1 (6.6/5.5) (S6 60%/S1 Cont.)		-	4.9/4.1 (6.6/5.5) (S6 60%/S1 Cont.)	
Tail stock	Tail stock travel		mm (inch)	360 [580] (14.1 [22.8])		-	360 [580] (14.1 [22.8])		-
	Quill taper		MT	MT#4 (Live)		-	MT#4 (Live)		-
Sub spindle	Spindle speed			-	-	6000	-	-	6000
	Spindle moter power (FANUC) (S3 25%/S3 60%/S1 Cont.)		kW (Hp)	-	-	5.5/5.5//3.7 (7.4/7.4/5.0)	-	-	5.5/5.5//3.7 (7.4/7.4/5.0)
	Spindle moter power (SIEMENS) (S3 25%/S3 60%/S1 Cont.)		kW (Hp)	-	-	7.0 / 7.0 (9.4/9.4) (S6 60%/S1 Cont.)	-	-	7.0 / 7.0 (9.4/9.4) (S6 60%/S1 Cont.)
	Max. spindle torque (FANUC)		N·m (ft-lbs)	-	-	47 (34.7)	-	-	47 (34.7)
	Max. spindle torque (SIEMENS)		N·m (ft-lbs)			50 (36.9)			50 (36.9)
	Spdinel nose			-	-	Flat ø110	-	-	Flat ø110
	Spindle bearing diameter		mm (inch)	-	-	75	-	-	75
	Spindle inner diameter		mm (inch)	-	-	43 (1.7)	-	-	43 (1.7)
	C-axis min.indexing angle		deg	-	-	0.001	-	-	0.001
Power source	Power consumption (FANUC / SIEMENS)		kVA	24.21 /23.49	24.21/23.49	30.07 /31.27	24.21/23.49	24.21/23.49	30.07 /31.27
Machine dimensions	Length		mm (inch)	2320 [2540] (91.3 [100.0])	2320 [2540] (91.3 [100.0])	2805 (110.4)	2350 [2570] (92.5 [101.2])		2835 (111.6)
	Width		mm (inch)	1595 (62.8)			1595 (62.8)		
	Height		mm (inch)	1693 (66.7)			1693 (66.7)		
	Weight		kg (lb)	3100 [3400] (6834.2 [7495.6])	3170 [3480] (6988.6 [7672.0])	3600 (7936.5)	3100 [3400] (6834.2 [7495.6])	3170 [3480] (6988.6 [7672.0])	3500 (7716.1)
Control	NC system			DN Solutions Fanuc i Plus, SIEMENS S828D			DN Solutions Fanuc i Plus, SIEMENS S828D		

*{} : Option

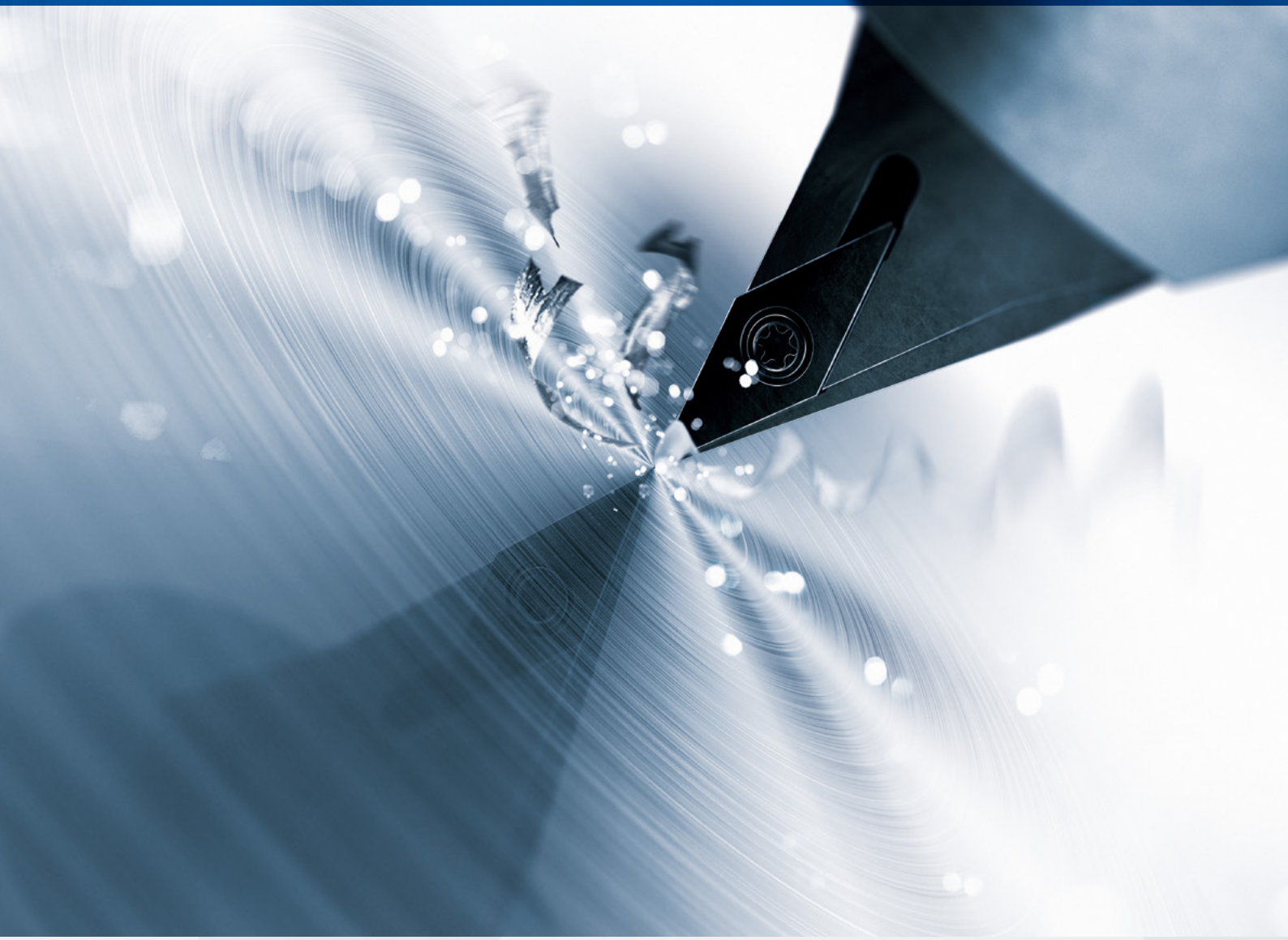
MACHINE SPECIFICATIONS

Description			Unit	Lynx 2100LC	Lynx 2100LMC	Lynx 2100LMSC	Lynx 2600	Lynx 2600M
Capacity	Swing over bed		mm (inch)	600 (23.6)			630 (24.8)	
	Swing over saddle		mm (inch)	400 (15.7)			460 (18.1)	
	Recommended turning diameter		mm (inch)	255 (10.0)			255 (10.0)	
	Max. turning diameter		mm (inch)	350 (13.8)	300 (11.8)		460 (18.1)	380 (15.0)
	Max. turning length		mm (inch)	537 (21.1)	497 (19.6)		658 (25.9)	610 (24.0)
	Chuck size		inch	10			10	
	Bar working diameter		mm (inch)	81 (3.2)			81 (3.2)	
Travel	Travel distance	X-axis	mm (inch)	205 (8.1)			255 (10.0)	
		Z-axis	mm (inch)	560 (22.0)			680 (26.8)	
Feedrate	Rapid traverse	X-axis	m/min (ipm)	30 (1181.1)			30 (1181.1)	
		Z-axis	m/min (ipm)	36 (1417.3)			30 (1181.1)	
Spindle	Spindle speed		r/min	3500			3500	
	Spindle moter power (FANUC)		kW (Hp)	18.5/15/15 (24.8/20.1/20.1) (S3 25%/S3 60%/S1 Cont.)			18.5/15/15 (24.8/20.1/20.1) (S3 25%/S3 60%/S1 Cont.)	
	Spindle moter power (SIEMENS)		kW (Hp)	20/15.7/12.6/10.5 (26.8/21/16.9/14.1) (S6 25%/S6 40%/S6 60%/S1 Cont.)			22.2/22.2/18.5 (29.7/24.8) (S6 40%/S6 60%/S1 Cont.)	
	Max. spindle torque (FANUC)		N·m (ft-lbs)	269 (198.5)			403 (297.4)	
	Max. spindle torque (SIEMENS)		N·m (ft-lbs)	190 (140.1)			402 (296.5)	
	Spdinel nose		ASA	A2-8			A2-8	
	Spindle bearing diameter		mm (inch)	130 (5.1)			130 (5.1)	
	Spindle inner diameter		mm (inch)	91 (3.6)			91 (3.6)	
	C-axis min.indexing angle		deg	-	0.001		-	0.001
Turret	No.of tool stations		ea	12{10}	12		10{12}	12
	OD tool size		mm (inch)	□25 x 25 (1.0 x 1.0)	□20 x 20 (0.8 x 0.8)		□25 x 25 (1.0 x 1.0)	□25 x 25 (1.0 x 1.0)
	Max.ID tool size		mm (inch)	Ø40 (Ø1.6)	Ø32 (Ø1.3)		Ø40 (Ø1.6)	Ø32 (Ø1.3)
	Turret indexing time		s	0.15	0.11		0.15	0.15
	Max.rotary tool speed		r/min	-	6000 {10000}*		-	6000 {10000}*
	Ratary tool motor power (FANUC)		kW (Hp)	-	3.7/1.1 (5.0/1.5) (S3 25%/S1 Cont.)		-	5.5/2.2 (7.4/3.0) (S3 25%/S1 Cont.)
	Ratary tool motor power (SIEMENS)		kW (Hp)	-	4.9/4.1 (6.6/5.5) (S6 60%/S1 Cont.)		-	6.2/4.1 (8.3/5.5) (S6 40%/S1 Cont.)
Tail stock	Tail stock travel		mm (inch)	580 (22.8)		-	700 (938.7)	
	Quill taper		MT	MT#4 (Live)		-	MT#4(Live) {MT#4(Dead)}	
Sub spindle	Spindle speed			-	-	6000	-	-
	Spindle moter power (FANUC) (S3 25%/S3 60%/S1 Cont.)		kW (Hp)	-	-	5.5/5.5//3.7 (7.4/7.4/5.0)	-	-
	Spindle moter power (SIEMENS) (S3 25%/S3 60%/S1 Cont.)		kW (Hp)	-	-	7.0 / 7.0 (9.4/9.4) (S6 60%/S1 Cont.)	-	-
	Max. spindle torque (FANUC)		N·m (ft-lbs)	-	-	47 (34.7)	-	-
	Max. spindle torque (SIEMENS)		N·m (ft-lbs)	-	-	50 (36.9)	-	-
	Spdinel nose			-	-	Flat Ø110	-	-
	Spindle bearing diameter		mm (inch)	-	-	75 (3.0)	-	-
	Spindle inner diameter		mm (inch)	-	-	43 (1.7)	-	-
	C-axis min.indexing angle		deg	-	-	0.001	-	-
Power source	Power consumption (FANUC / SIEMENS)		kVA	32.46/ (T.B.D)	32.46/ (T.B.D)	34.49/(T.B.D)	28.19/33.35	28.19/33.35
Machine dimensions	Length		mm (inch)	2570 (101.2)	2570 (101.2)	2837 (111.7)	3290 (129.5)	
	Width		mm (inch)	1602 (63.1)			1778 (70.0)	
	Height		mm (inch)	1693 (66.7)			1790 (70.5)	
	Weight		kg (lb)	3450 (7605.8)	3500 (7716.1)	4100 (9038.8)	4750 (10471.8)	4800 (10582.0)
Control	NC system			DN Solutions Fanuc i Plus, SIEMENS S828D			DN Solutions Fanuc i Plus, SIEMENS S828D	

*{} : Option

WHY DN SOLUTIONS

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



UNBEATABLE MACHINES

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

READILY AVAILABLE - ANYWHERE IN THE WORLD

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

ROBUST PRODUCT LINE

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

EXPERT SERVICE

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

RESPONDING TO CUSTOMERS **ANYTIME, ANYWHERE**

DN SOLUTIONS GLOBAL NETWORK

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WE'RE THERE FOR YOU WHENEVER YOU NEED US.

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

FIELD SERVICES

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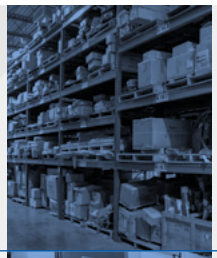

PARTS SUPPLY

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

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- Electrical and mechanical maintenance
- Applications engineering

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- Responds to technical queries
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** Specifications and information contained within this catalogue may be changed without prior notice.*

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