DOOSAN

MACHINE GREATNESS

Lynx 2100LY series

Y axis added 6/8 inch Global Compact Turning Center

Lynx 2100LY series

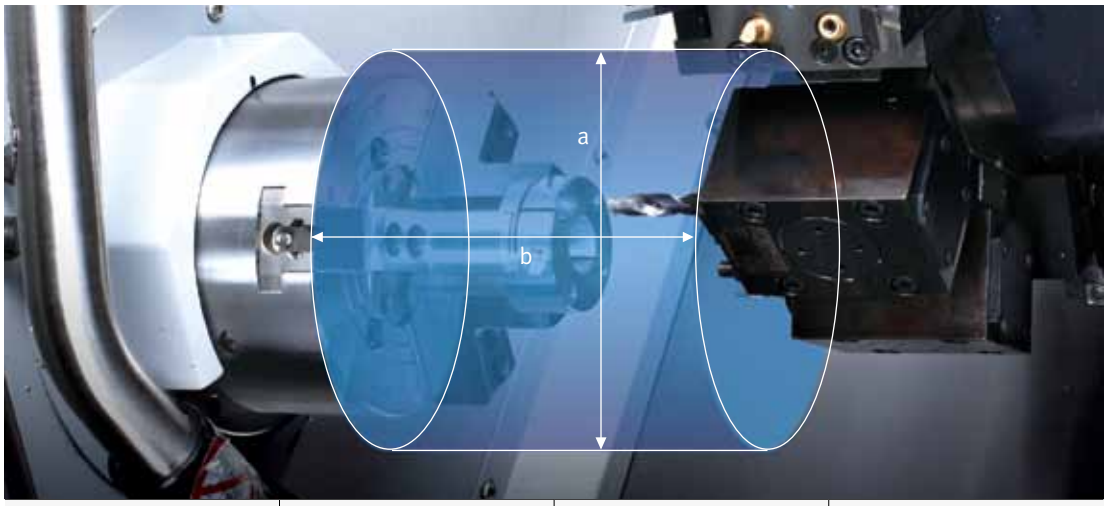
Lynx 2100LYA / LYB

Lynx 2100LSYA / LSYB

ver. EN 180123 SU

Structure and Machining area

Stable high rigidity bed structure and application of roller type LM guide for all axes realize continued high rigidity and high accuracy of the machine.

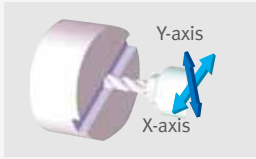


Model	Max. Turning diameter(a)	Max. Turning length(b)	Sub spindle
Lynx 2100LYA / LYB	300 mm* (11.8 inch)	510 mm (20.1 inch)	X
Lynx 2100LSYA / LSYB		510 mm (20.1 inch)	O

* Max. Turning diameter is 236 mm in case that optional 16 station turret is mounted

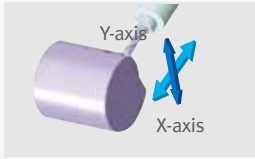
Easy machining of complex shapes with one setup

Additional Y axis and sub spindle help to make machining of parts with diverse and complex shapes faster and easier.

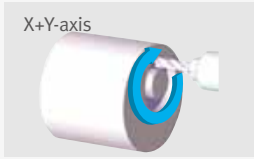


Groove finish cutting using the Y-axis

Multi-face cutting



Milling in an eccentric position



Y & X axes circular interpolation

Spindle

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

Main spindle

Powerful spindle motor is capable of 0.001degree high accuracy C axis control and can provide large bar capacity until 65mm bar working diameter.

Max. spindle speed

6000 r/min

Spindle Motor Power

15 kW (20 Hp)

Model	Spindle			Sub spindle
	Max. Speed r/min	Max. Power kW (Hp)	Max.Torque N·m (ft-lbs)	Max. Speed r/min
Lynx 2100LYA/LSYA	6000	15 (20.1)	127 (93.7)	6000
Lynx 2100LYB/LSYB	4500	15 (20.1)	169 (124.7)	6000

Turret

Servo driven indexing raise the reliability and BMT type milling turret ensures high rigidity.

Servo driven Turret

High torque servo motor controls rotational acceleration and deceleration of turret and clamping/unclamping operations and its excellent dividing position brings continual high machining accuracy.

Number of Tool stations

12ea (16ea option)

Indexing time
(1 station swivel)

0.11s


12station Turret


16station Turret

Max. Rotary Tool Speed

6000 r/min
(10000 r/min option)

Easy operation

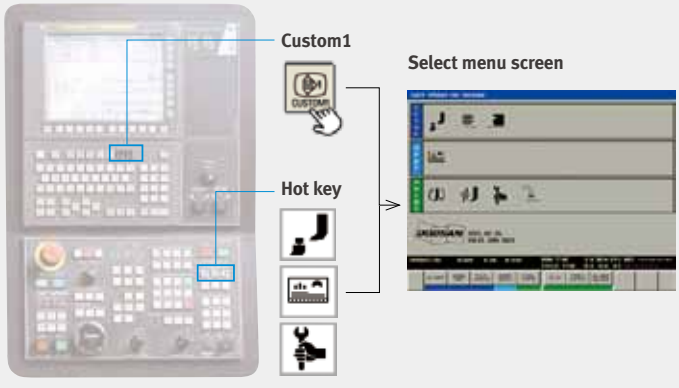
Enhances ease of operation by the design based on the user's convenience.

CNC Tailstock(Hydraulic type) for Lynx 2100LYA / LYB

Adoption of the hydraulic actuation type CNC tailstock (hydraulic type) enables tailstock positioning and work setting using the operation panel. The dedicated screen reduces the work setting time by about 50%.

Easy Operation Package

Doosan Easy Operation Package (EOP) supports the user with tool, help desk, operation, functionalities to maximize operational efficiency and user convenience.



- **Convenient set up for peripheral equipment**
  Helps tool setter guide, work setting, tailstock setting, and other measurement and parameter control to reduce setting-up time and facilitates operation.
- **Screen for monitoring the machine and operating conditions**
  The screen provides a complete view of machine operation. Information on the feed system position, offset, feedrate and spindle speed, tool life and count in an easy-to-view screen.
- **Management Convenience Screen**
  Helps to prepare tools and provides for visual information on alarms to reduce maintenance time.

Main Specifications

Lynx 2100LY series

Description			Unit	Lynx 2100 LYA	Lynx 2100 LYB	Lynx 2100LSYA	Lynx 2100LSYB
Capacity	Max. Turning diameter		mm (inch)	300 (11.8)			
	Max. Turning length		mm (inch)	510 (20.1)			
	Chuck size		inch	6	8	6	8
	Bar working diameter		mm (inch)	51 (2.0)	65 (2.6)	51 (2.0)	65 (2.6)
Travel distance	Travel distance	X axis	mm (inch)	205 (8.1)			
		Z axis	mm (inch)	560 (22.0)			
		Y axis	mm (inch)	105 (±52.5) (4.1 (±2.1))			
Spindle	Max. Spindle speed		r/min	6000	4500	6000	4500
	Main spindle motor power		kW (Hp)	15 / 15 / 11 (20 / 20 / 15) (S3 25%/15min/Cont.)			
	Max. Spindle Torque for Turning		N·m (lbf-ft)	127 (93.7)	169 (124.7)	127 (93.7)	169 (124.7)
	Spindle through hole diameter		mm (inch)	61 (2.4)	76 (3.0)	61 (2.4)	76 (3.0)
Sub spindle	Max. Spindle speed		r/min	-	-	6000	
	Sub spindle motor power (30min./cont.)		kW (Hp)	-	-	5.5/3.7 (7.4/5.0)	
	Spindle through hole diameter		mm (inch)	-	-	43 (1.7)	
Turret	No. of tool stations		st	12 (24 Position Index) {16}*			
	OD tool size		mm (inch)	20 (0.8)			
	Max. boring bar size		mm (inch)	32 / 20 (1.3 / 0.8)			
Tail stock	Tailstock travel		mm (inch)	560 (22.0)		-	-
	Quill diameter		mm (inch)	65 (2.6)		-	-
	Quill travel		mm (inch)	80 (3.1)		-	-
	Quill bore taper		MT	MT#4		-	-
Machine Dimensions	Length		mm (inch)	2850 (112.2)	2880 (113.4)	2850 (112.2)	2880 (113.4)
	Width		mm (inch)	1710 (67.3)			
	Height		mm (inch)	1920 (75.6)			
Control	NC system		-	Doosan Fanuc i series / Siemens 840D			

* { } : Option

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* For more details, please contact Doosan Machine Tools.
* The specifications and information above-mentioned may be changed without prior notice.
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Fire Safety Precautions | There is a high risk or fire when using non-water-soluble cutting fluids, processing flammable materials, neglecting use coolants and modifying the machine without the consent of the manufacturer. Please check the SAFETY GUIDANCE carefully before using the machine.