



**MACHINE
GREATNESS™**

Lynx 2100LY series



**Y axis added 6/8 inch
Global Compact
Turning Center**

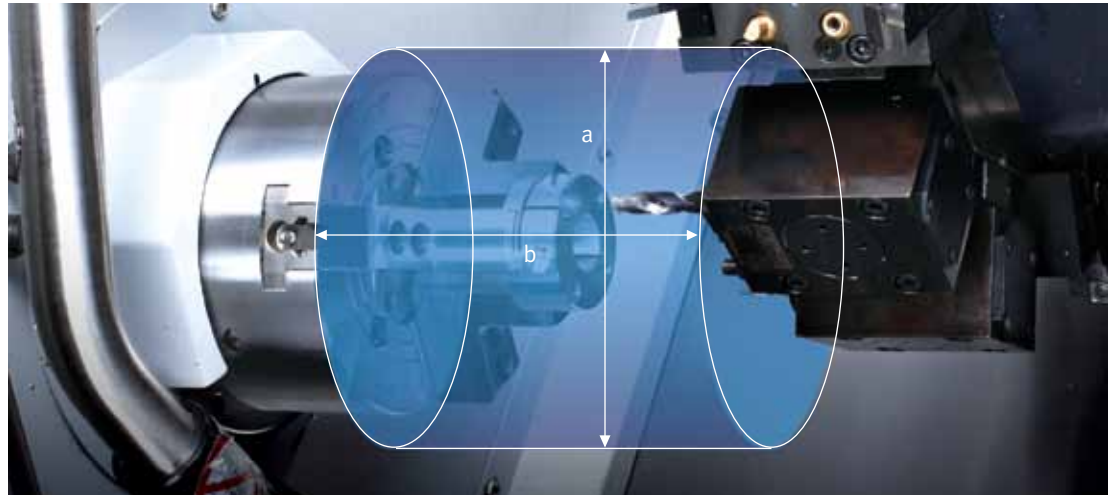
Lynx 2100LY series

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.

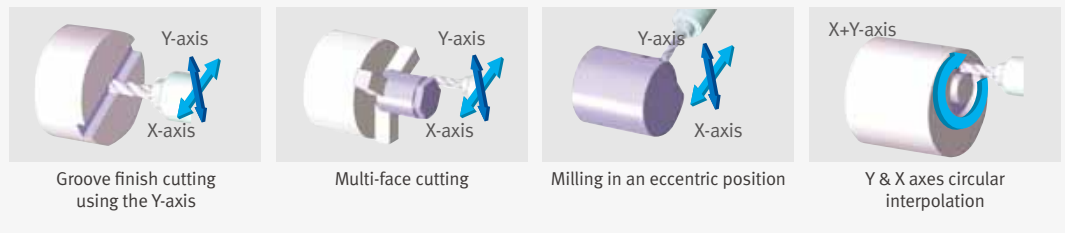


| Model | Max. Turning diameter(a) | Max. Turning length(b) | Sub spindle |
|----------------------|--------------------------|------------------------|-------------|
| Lynx 2100LYA / LYB | 300 mm* | 510 mm (20.1 inch) | X |
| Lynx 2100LSYA / LSYB | (11.8 inch) | 510 mm (20.1 inch) | O |

* 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 0.001 degree 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

12 ea (16ea option)

Indexing time

(1 station swivel)

0.11s

Max. Rotary Tool Speed

6000 r/min

(10000 r/min option)



12station Turret



16station Turret



Easy operation

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

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

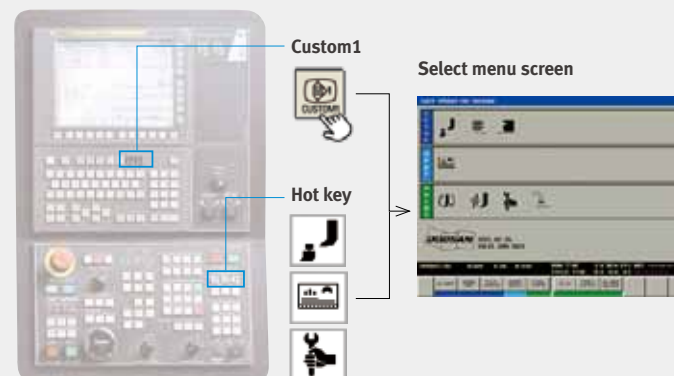
Adoption of the hydraulic actuation type CNC tailstock (hydraulic type) enables tailstock positioning and work setting using the operation panel. The dedicated screen reduces the work setting time by about 50%.



- 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

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 | 205 (8.1) | | | |
| | | Z axis | 560 (22.0) | | | |
| | | Y axis | 105 (±2.5) (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 of 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.