



**MACHINE
GREATNESS™**

LEO 1600



**6 inch Compact
Turning Center**

LEO 1600

ver. EN 171107 SU

Basic structure

The 30° slant bed includes stable support structure with highly rigid roller type LM guideway for reliable machining.

A small footprint with big capabilities

The machine is a compact design with 1850 mm width and comes with a 175 mm X-axis stroke and 330 mm Z-axis stroke.

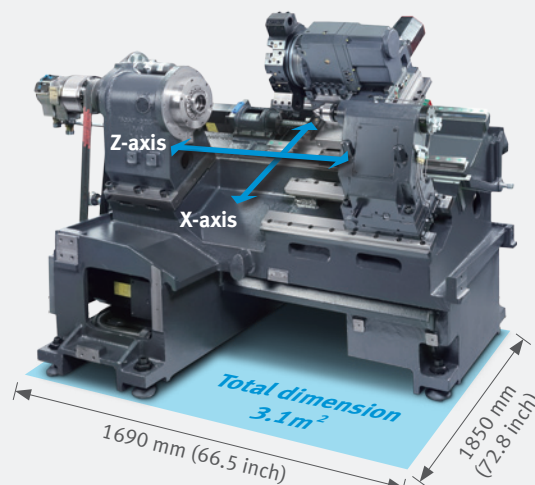
Travel

X-axis **175 mm**
(6.9 inch)

Z-axis **330 mm**
(13.0 inch)

Rapid feedrate

X / Z-axis **30 m/min**
(1181.1 ipm)



Machining area

LEO 1600 offers the largest machining area in its class.

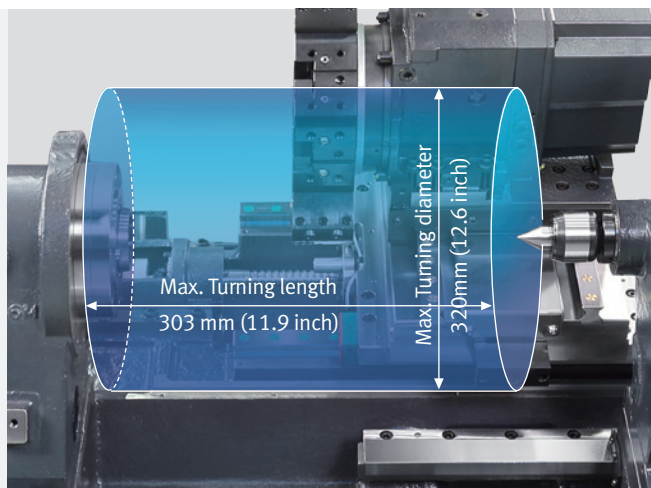
Bar working diameter

45 mm (1.8 inch)

Max. Allowable workpiece weight (including chuck)

Chuck work **70 kg**
(154.3 lb)

Shaft work **150 kg**
(330.7 lb)



High reliable spindle

Chuck size

170 mm
(6 inch)

Spindle speed

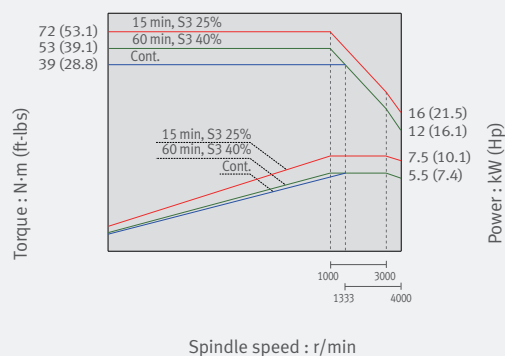
4000 r/min

Max. Spindle power

7.5 kW (10.1 Hp)



NC : DOOSAN FANUC i series



Turret

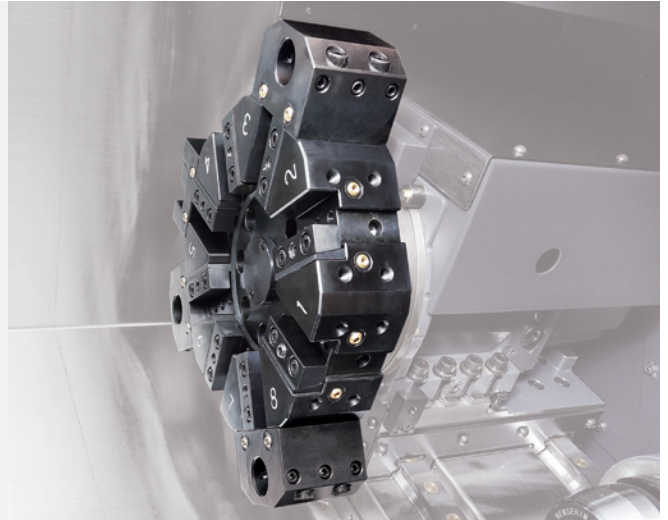
The durable eight station turret ensures stable tool rotation and increase machine performance.

No. of Tool positions

8 stations

Tool holder size

□ **25 x 25 mm**
(□ 1.0 x 1.0 inch)



Tailstock option

Rigid tailstock is available to provide stable support of long workpieces.

Quill diameter

65 mm (2.6 inch)

Quill Travel

80 mm (3.1 inch)

Live tail center

MT#4



Ease of Operation

User friendly Design for ease of operation

- Easy monitoring with reclined front window.
- Rear side chip disposal
- Routine maintenance details are placed in front



For reducing operator workload, designed wide door opening



Major Specifications

LEO 1600



Description			Unit	LEO 1600
Capacity	Max. Turning diameter		mm (inch)	320 (12.6)
	Max. Turning length		mm (inch)	303 (11.9)
	Chuck size		inch	170 (6") {8"}*
	Bar working diameter		mm (inch)	45 (1.8)
Travels	Travel distance	X axis	mm (inch)	175 (6.9)
		Z axis	mm (inch)	330 (13.0)
	Rapid Traverse Rate	X axis	m/min (ipm)	30 (1181.1)
		Z axis	m/min (ipm)	30 (1181.1)
Spindle	Max. Spindle speed		r/min	4000
	Spindle nose		ASA	A2-5
	Main spindle motor power		kW	7.5/5.5 (10.1/7.4)
	Spindle bearing diameter		mm (inch)	90 (3.5)
	Spindle through hole diameter		mm (inch)	61 (2.4)
	Max. Spindle Torque for Turning		N·m (ft·lbs)	71.6 (52.8)
Turret	No. of tool		ea	8
	OD tool size		mm (inch)	25 (1.0)
	Max. boring bar size		mm (inch)	32 (1.3)
Tailstock <div>option</div>	Type		-	MTS
	Quill diameter x Travel		mm (inch)	65 x 80 (2.6 x 3.1)
	Quill bore taper		mm (inch)	MT#4 (Live)
Machine Dimensions	Length		mm (inch)	1690 (66.5)
	Width		mm (inch)	1850 (72.8)
	Height		mm (inch)	1635 (64.4)
NC system	NC unit			DOOSAN FANUC i series
	Monitor		-	8.4" Color LCD

*{ } : Option



Doosan Machine Tools

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* 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.