



**MACHINE  
GREATNESS™**

# LEO 1600



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**6 inch Compact  
Turning Center**

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**LEO 1600**

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ver. EN 171130 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.

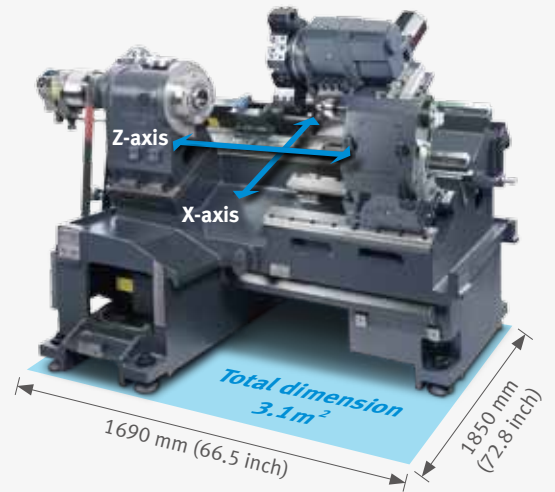
#### Travel

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

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

#### Rapid feederate

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



## Machining area

LEO 1600 offers the largest machining area in its class.

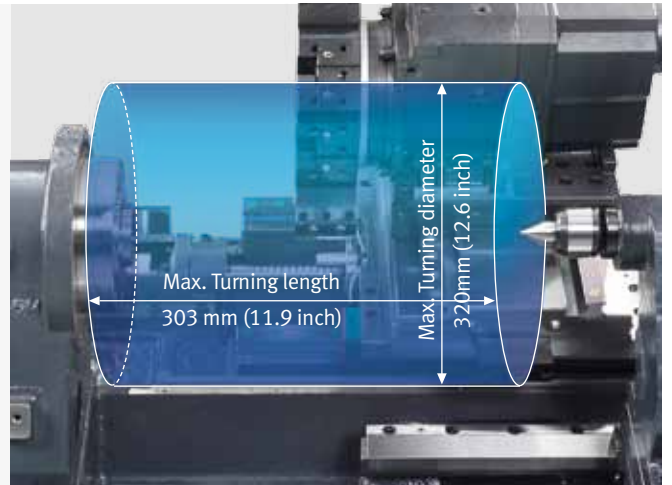
#### Bar working diameter

**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

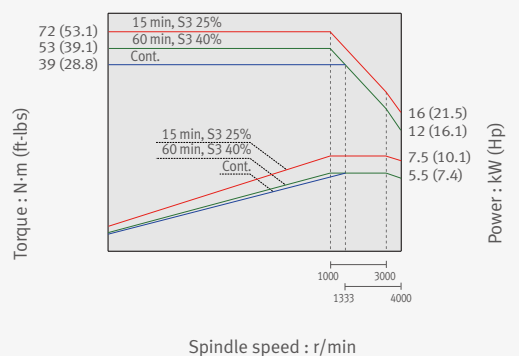
**4000 r/min**

#### Max. Spindle power

**7.5 kW** (10.1 Hp)

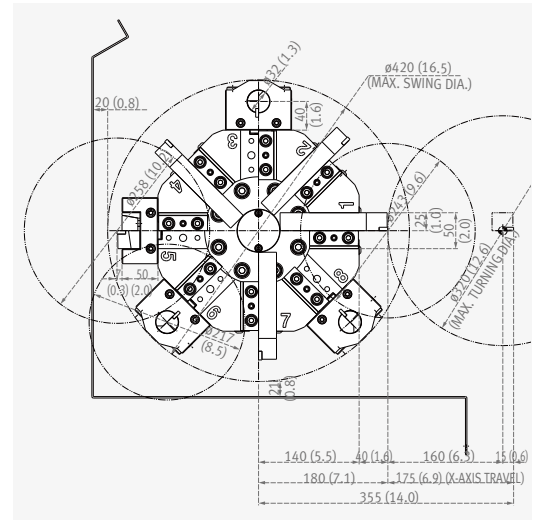


### NC : DOOSAN FANUC i series



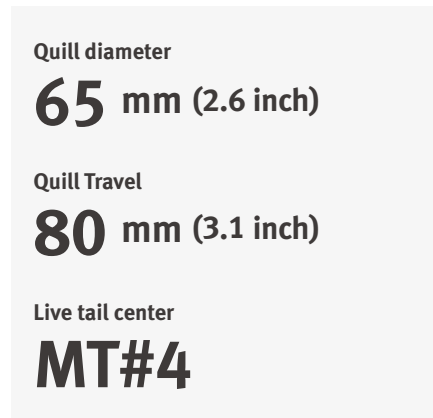
## Turret

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



## Tailstock option

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



## 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

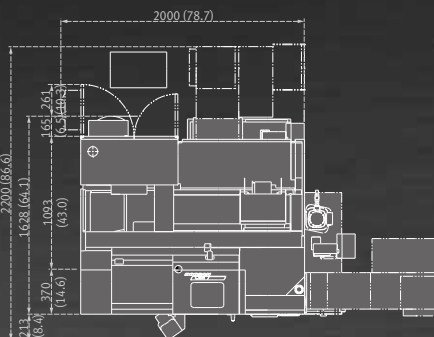


Description		Unit	LEO 1600
Capacity	Max. Turning diameter	mm (inch)	320 (12.6)
	Max. Turning length	mm (inch)	303 (11.9)
	Chuck size	inch	170 (6") {8"}*
	Bar working diameter	mm (inch)	45 (1.8)
Travels	Travel distance X / Z axis	mm (inch)	175 / 330 (6.9 / 13.0)
	Rapid Traverse Rate X / Z axis	m/min (ipm)	30 / 30 (1181.1 / 1181.1)
Spindle	Max. Spindle speed	r/min	4000
	Spindle nose	ASA	A2-5
	Main spindle motor power	kW (Hp)	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)
Machine Dimensions	Length / Width / Height	mm (inch)	1690 / 1850 / 1635 (66.5 / 72.8 / 64.4)
	NC system		DOOSAN FANUC i series
	Monitor		8.4" Color LCD

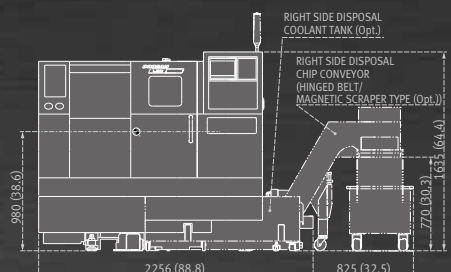
\*{ } : Option

### External Dimensions

Top view



front view



## Doosan Machine Tools

<http://www.doosanmachinetools.com>

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[www.youtube.com/c/DoosanMachineToolsCorporation](https://www.youtube.com/c/DoosanMachineToolsCorporation)

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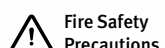
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\* For more details, please contact Doosan Machine Tools.

\* The specifications and information above-mentioned may be changed without prior notice.

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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.