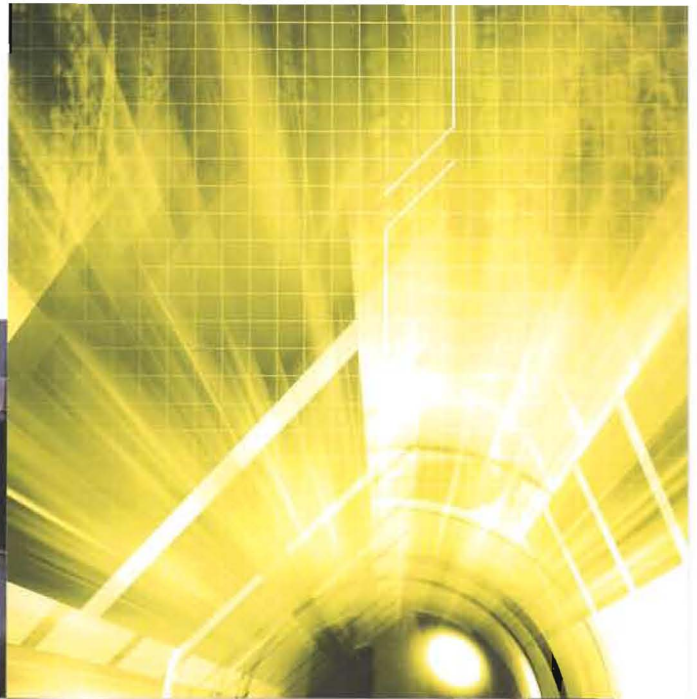
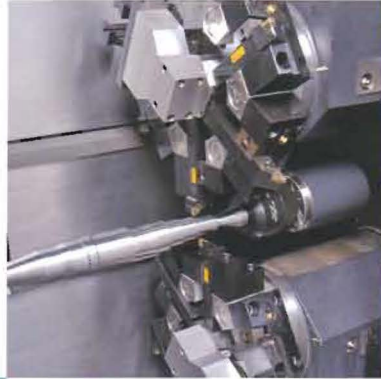


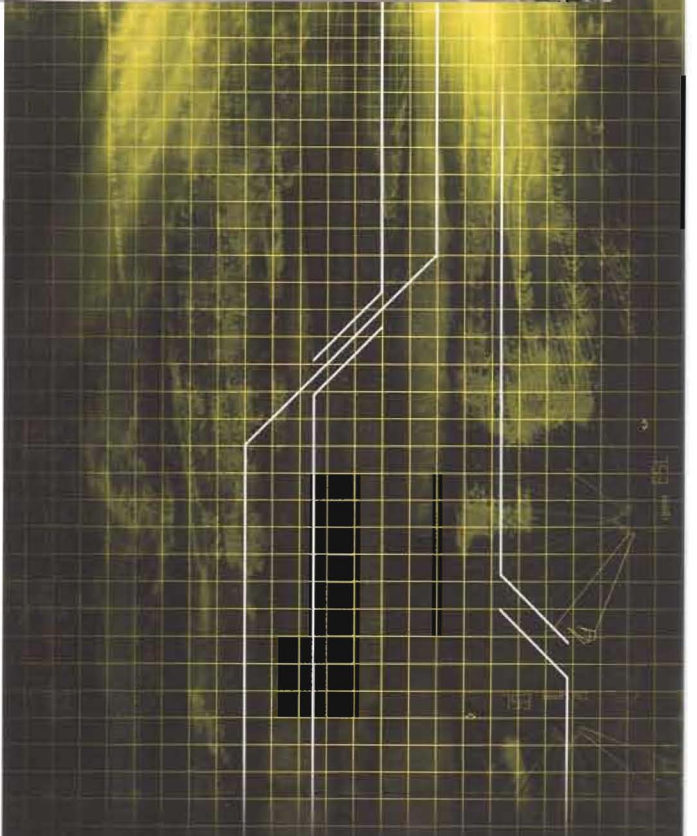
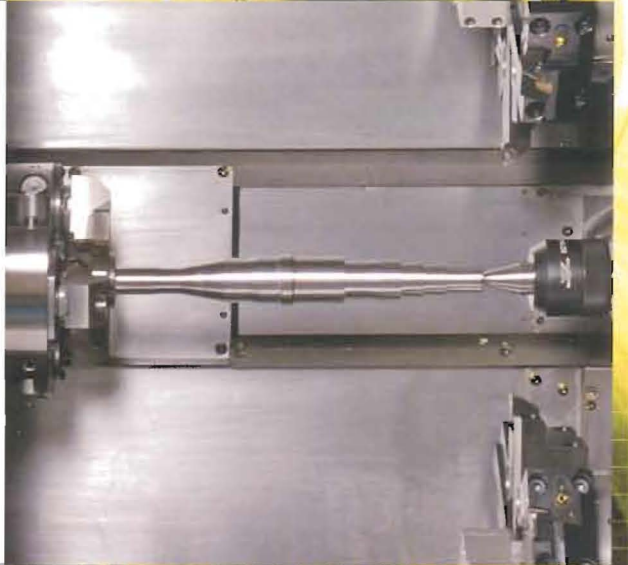
muratec



Shaft Turning Machine

ML400

ML400/T2



MURATA MACHINERY, LTD.

High Speed & High Efficiency

Drastic Reduction of "Idle time" and "Cutting time"
by Two Turrets



Shaft Turning Machine 1 Spindle, 2 Turret

ML400/T2



Main Specification

Target shaft size	ø200 x L400 (Standard Spec) ø60 x L350 (Walkthrough Option)
Spindle Motor	11kW/30min : Standard 15kW/30min : Option
Number of Turret station	6station x 2

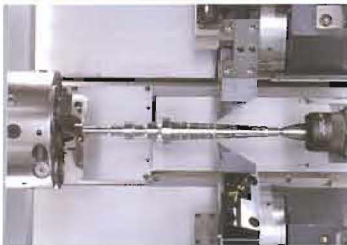
Change over time "Zero"
Servo drive tail stock (MT No4)



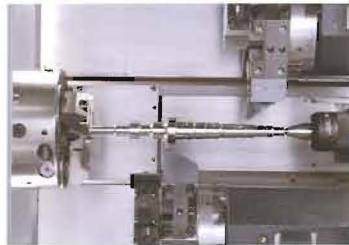
Tail stock stroke Tail stock speed
Tail stock thrust power
There are programmable.
Maximum stroke : 300mm

Cutting example of cycle savings time using Two Turrets

Pinch Turning



Tool change over time is "Zero"



Total shipment of Gantry loader machine
by MURATEC amount to over 8000 units

Gantry loader type **ML400G**

The key word is "Automation"

A special 3-axis MURATEC Gantry Loader and Carriage system for Automation improvements and manpower reduction.



Efficiency in Compact Footprint

It is possible to cut both "O.D." and "I.D."
in the same operation

Shaft Turning Machine 1 Spindle, 1 Turret **ML400**

Main Specification

Target shaft size	φ200 x L400 (Standard Spec) φ200 x L250 (Inside cutting Spec)
Spindle Motor	7.5kW/30min : Standard 11kW/30min : Option
Number of Turret station	6station

Servo driven roller support enables I.D. turn. (Option)

Z Axis movement of roller support is driven by Servo system.

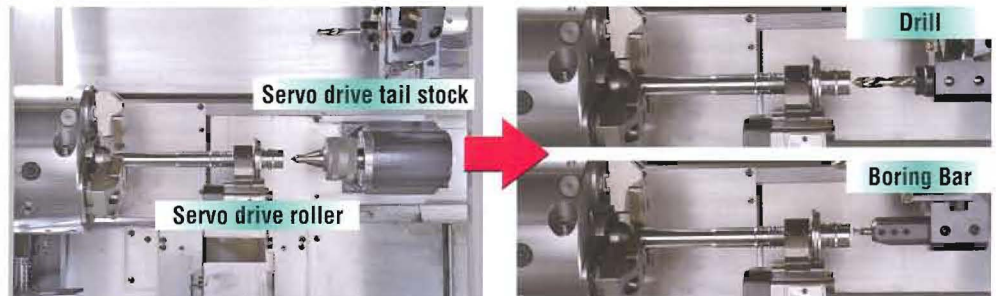
This unit can support a work at any desired position by employing servo system for axis movement.

Therefore, retooling time will be almost Zero. Radial movement and grip are driven by Hydraulic pressure system.

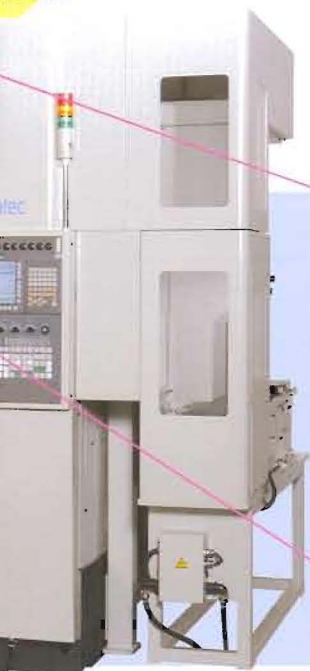
Z Axis maximum stroke : 300mm



By Utilizing both the Roller support and Tailstock, I.D. turning is possible.

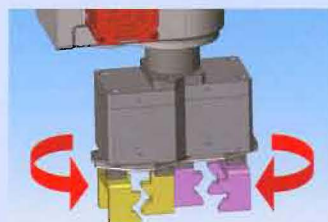


Machines manufactured in units.



Lengthwise turn type

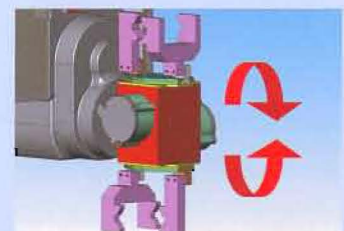
Choice of 2 Loader head configurations can be specified depending on parts shape and feed-in / feed-out system.



Horizontal row turn type

: small diameter

Includes 180 turn-around function.



Lengthwise turn type

: large diameter

Lengthwise type for large diameter parts of flanges.

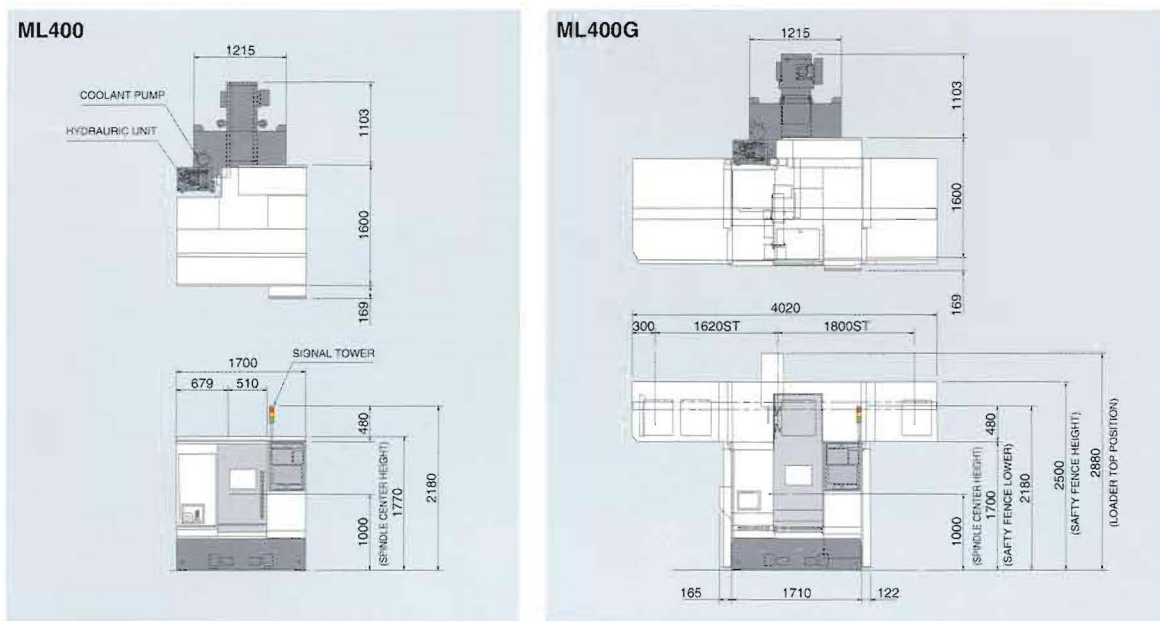
Specifications

	ML400/T2	ML400
Chuck size	6(8)Inch	
Maximum workpiece size	ø200×L400	
Maximum workpiece size(option)	ø60×L350 (Walkthrough)	ø200×L250 (I.D. turn)
Number of turret	2	1
Number of turret station	6	
Standard OD tool shank diameter	□20	
Maximum ID tool shank diameter	ø25. ø32	
Cross stroke	130 mm	
Z-axis	430 mm	
Spindle diameter at front bearing mounting	ø100	
Diameter of spindle bore	ø63	
Spindle nose	A2-5	
Spindle AC motor	standard	11 kw/30 min
(FANUC)	option	15 kw/30 min
		7.5 kw/30 min
Spindle speed	4500 rpm(3000 rpm)	
Rapid traverse rate(X-axis/Z-axis)	X-axis:20 m/min, Z-axis:32 m/min	
Tailstock	MT4 (Rolling Center)	
Tailstock thrust force	380 kgf	
Quill stroke	300 mm(Servo drive)	
Quill rapid traverse rate	16 m/min	
Roller Support unit (option)	—	Cross/Grasp : Hydraulic
Roller Support stroke	—	300 mm(Servo drive)
Roller Support rapid traverse rate	—	32 m/min
Machine size (Without loader, feed in/out devices, chip c/v, etc.)	W : 1,700×D : 1,650×H : 1,650	
Total weight	3500 kg	3400 kg

Gantry loader specifications

X-axis left/right Stroke	1620 mm / 1800 mm
Maximum Speed	120m/min
Y-axis left/right Stroke	File type : 795 mm, Horizontal row type : 850 mm
Maximum Speed	100m/min
Z-axis left/right Stroke	File type : 130 mm, Horizontal row type : 150 mm
Maximum Speed	35 m/min
α-axis Stroke	180°
Wrist index Maximum Speed	1.5 sec.
Jaw Stroke	30 mm
Maximum part weight	5.0 kg×2
Workpiece dimension capacity of loader	ø60×L400

Floor Plan



* Machine appearance may differ to that shown in the catalogue pictures. * All specifications are subject to change without advanced notice.

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