



# ML

S E R I E S

High Agility  
High Performance.

Introducing the most advance  
ML-Series we ever built.



# ML-46

## HIGH SPEED SLANT BED LATHE



1

ML-46 is equipped with a high-speed hydraulic collet chuck to reduce the production time needed for each part. This gives the machine a higher output rate compare to most standard lathes on the market.



2

The ML-46 is designed to fit every customer operational needs. Controllers such as Fanuc, Mitsubishi, and other types of NC controller can be equipped to meet each customer needs.

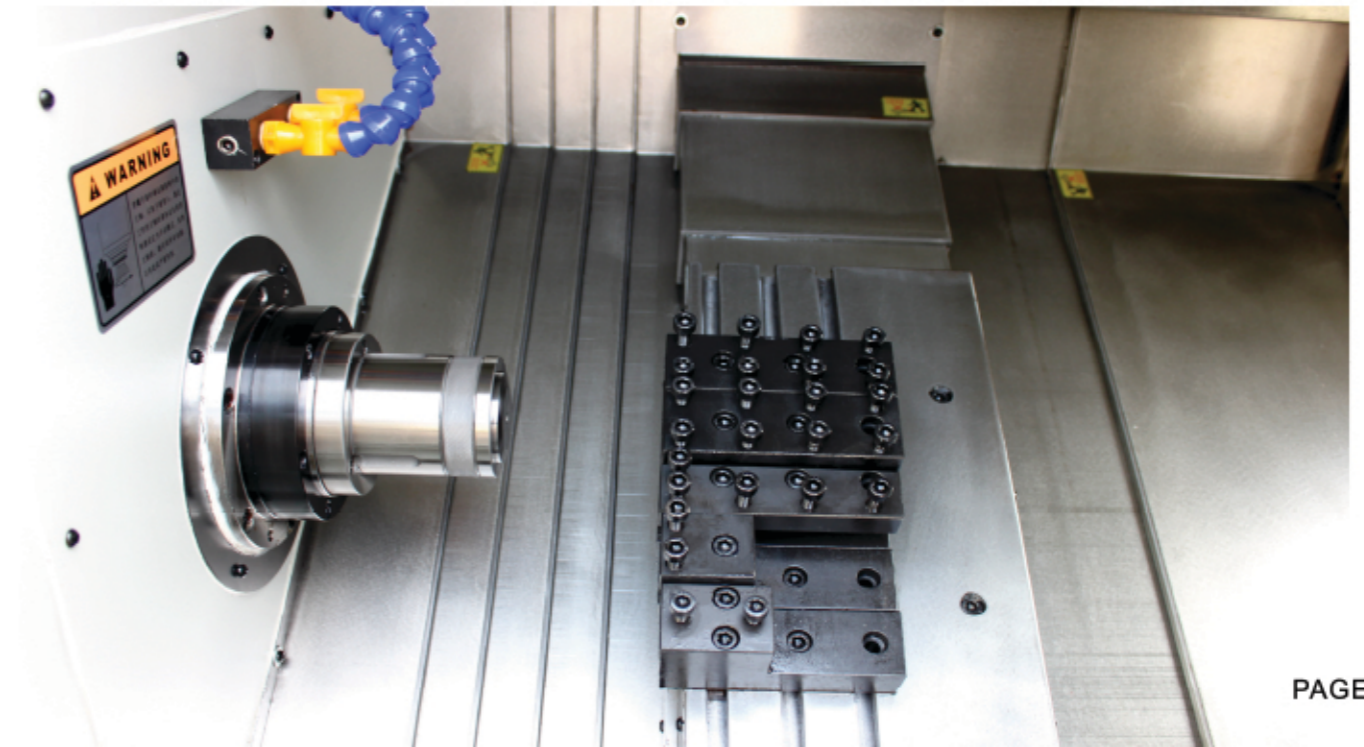


3

The 45° degree included work bed is designed into the ML-46 giving this high speed lathe a larger working area and the capability of installing more tools and at the same time turn larger work pieces.



The fully enclosed casing design ensures the machine operator a clean and safe working environment.



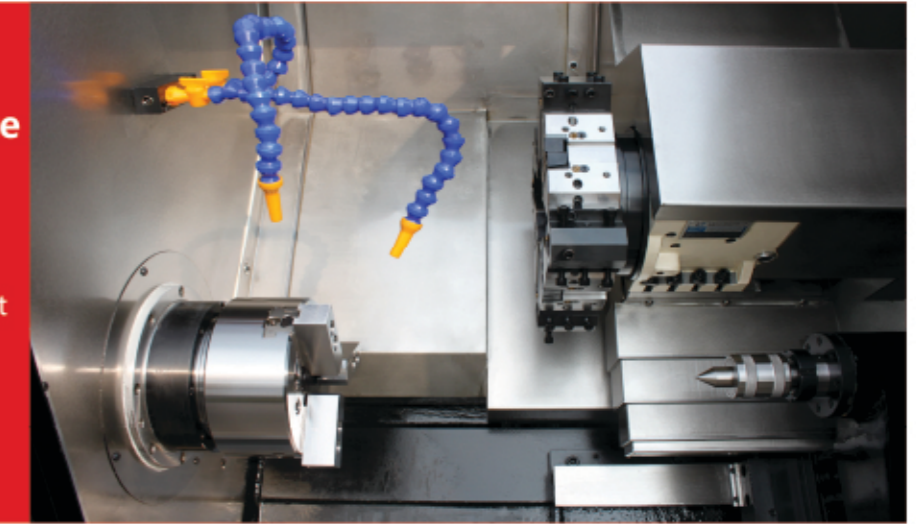
# ML-280

## HIGH SPEED SLANT BED LATHE WITH 8 POSITION SERVO HYDRAULIC TURRET



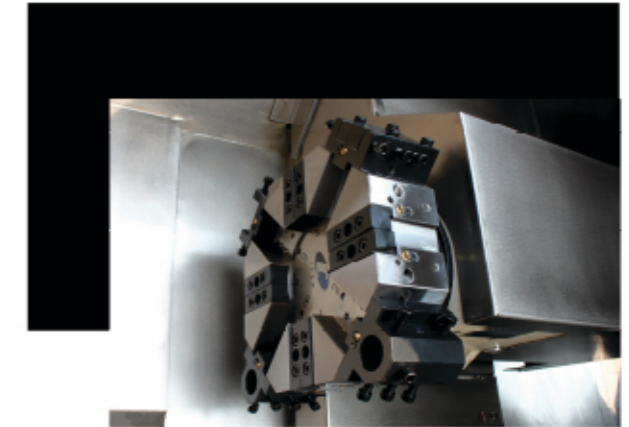
### Superior Machining Performance

Equipped with a 7.5 kW high-power motor and machine structure, and further enhanced spindle and axis ball screw stiffness, the ML-280 Series offers excellent cutting capability up to a maximum turning diameter of  $\varnothing 400$  (Disc) and  $\varnothing 210$  (Axis), and with a maximum turning length of 600mm.



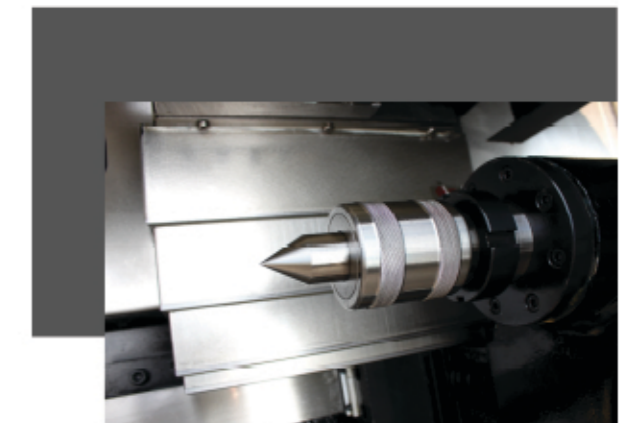
### High Reliability

The ML-Series' excellent reliability is based on the adoption of a wider support structure, more stable bed, lower vibration and lower noise spindle, servo-driven turret, and a full enclosed cover for preventing coolant leaks and chips from penetrating the machine while the operator is working on the work piece. Using high quality C3 roller type linear guideway with NSK bearings ensuring the stability



### Improved User Convenience

The CNC programmable tailstock with our standard hydraulic tailstock enable the user to operate peripheral devices quickly and conveniently. This helps reduce the time it takes to setup each work piece manually, creating higher production profitability.



### Maximum customize flexibility

More and more customers are asking for solutions that can help increase productive and reduce cost. The Maple ML-Series is answer to both those demands. With customizable solutions for parts catchers, part feeder, and robotic arms. The machine can operate automatically with very little stop time giving the machine a higher output rate than other machines on the market.

## TECHNICAL PARAMETERS

	ML-46C	ML-46J
X / Z Travel (mm)	790/250	790/250
Swing Over Bed (mm)	φ 400	φ 400
Swing Over Size (mm)	φ 120	φ 120
Max Turning Diameter (disc) (mm)	—	φ 380
Max Turning Diameter (axis) (mm)	φ 42	—
Max Turning Length (mm)	200	200
Distance Between Centers (mm)	—	—
Power Chuck Size (in)	—	6"
Max. Diameter Of Bar Bore (mm)	φ 45	φ 45
Diameter Of Spindle Bore (mm)	φ 56	φ 56
Spindle Head Type (ASA)	A2-5	A2-5
Spindle RPM (rpm)	6000	6000
Spindle Motor (kw)	5.5	5.5
Spindle Accuracy (mm)	0.004	0.004
X / Z axis Rapid Traverse (m/min)	30/30	30/30
X / Z axis Servo Motor (kw)	1.3/1.3	1.3/1.3
Number of tools (units)	Gang type tool plate	Gang type tool plate
Position Accuracy (mm)	± 0.005	± 0.005
Repeatability (mm)	± 0.005	± 0.005
Turning Tool Size (mm)	20X20	20X20
Boring Tool Size (mm)	φ 20	φ 20
Machine Weight (Little) (KG)	2300	2300
Machine Size (mm)	2100X1700X1700	2100X1700X1700

### STANDARD

- Collet chuck
- Foot switch
- Working lamp and alarm
- Tools and tool box
- Spindle air blow

### OPTION

- Chip conveyor with bucket
- Parts catcher
- Parts Conveyor
- 6" 3 jaw hydraulic hollow chuck
- Hydraulic turret
- Water oil separator
- Bar feeder interface
- Servo turret

## TECHNICAL PARAMETERS

	ML-280	ML-280E	ML-350
X / Z Travel (mm)	210/400	210/600	440/800
Swing Over Bed (mm)	φ 470	φ 470	φ 560
Swing Over Size (mm)	φ 280	φ 280	φ 350
Max Turning Diameter (disc) (mm)	φ 400	φ 400	φ 420
Max Turning Diameter (axis) (mm)	φ 210	φ 210	φ 350
Max Turning Length (mm)	400	600	750
Distance Between Centers (mm)	500	700	900
Power Chuck Size (in)	8"	8"	10"
Max. Diameter Of Bar Bore (mm)	φ 52	φ 52	φ 75
Diameter Of Spindle Bore (mm)	φ 62	φ 62	φ 91
Spindle Head Type (ASA)	A2-6	A2-6	A2-8
Spindle RPM (rpm)	4500	4500	3000
Spindle Motor (kw)	7.5	7.5	11
Spindle Accuracy (mm)	0.003	0.003	0.003
X / Z axis Rapid Traverse (m/min)	24/24	24/24	20/20
X / Z axis Servo Motor (kw)	1.8/1.8	1.8/1.8	1.8/2.5
Number of tools (units)	8	8	12
Position Accuracy (mm)	± 0.005	± 0.005	0.005
Repeatability (mm)	± 0.003	± 0.003	0.003
Turning Tool Size (mm)	25X25	25X25	25X25
Boring Tool Size (mm)	φ 40	φ 40	φ 40
Tailstock Travel (mm)	400	600	700
Quill Taper (MT)	MT4	MT4	MT5
Machine Weight (Little) (KG)	3500	3700	4100
Machine Size (mm)	3455X1395X1855	3700X1395X1855	3800X1700X1950

### STANDARD

- 8" 3 jaw hydraulic hollow chuck
- Hydraulic turret
- Foot switch
- Working lamp and alarm
- Tools and tool box
- Programmable tailstock

### OPTION

- Chip conveyor with bucket
- Tool pre-setter
- 10" 3 jaw hydraulic hollow chuck
- 12" 3 jaw hydraulic hollow chuck
- Servo turret
- Power turret
- Water oil separator



M A P L E



Endless Innovation



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