

# 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.



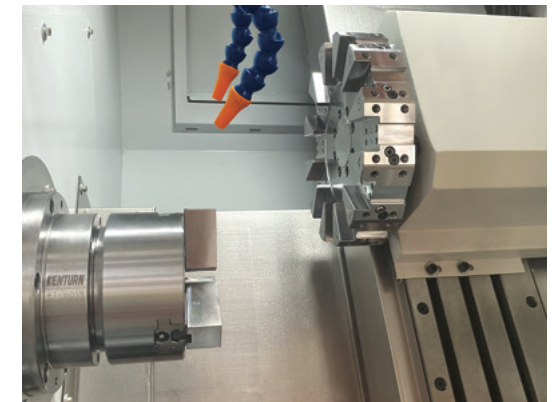
2

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.

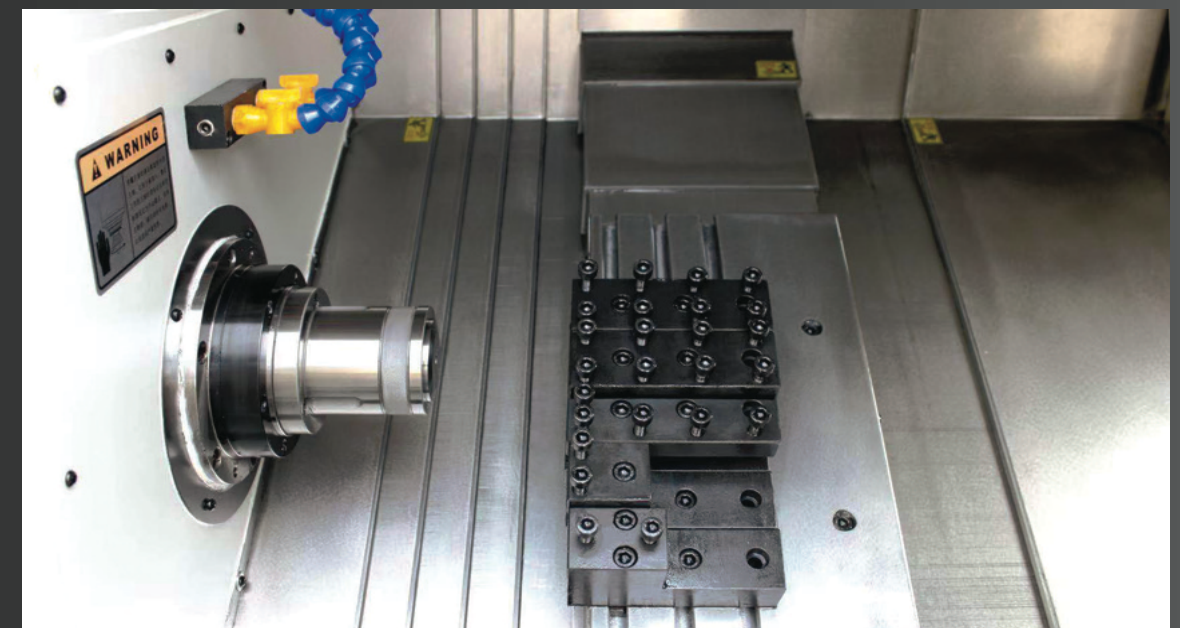


3

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.





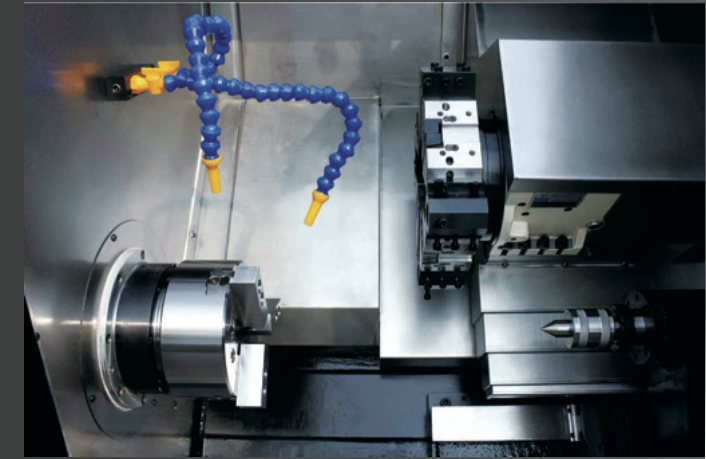
# ML-280

HIGH SPEED SLANT BED LATHE  
WITH 8 POSITION SERVO TURRET



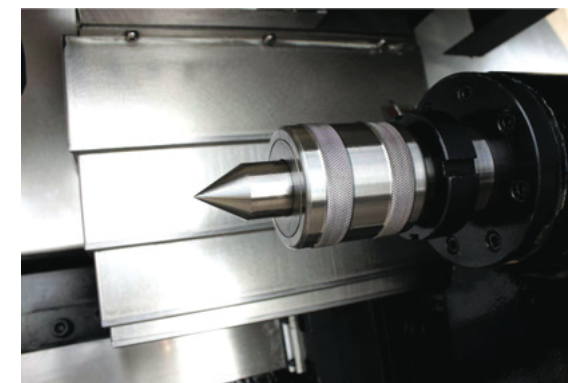
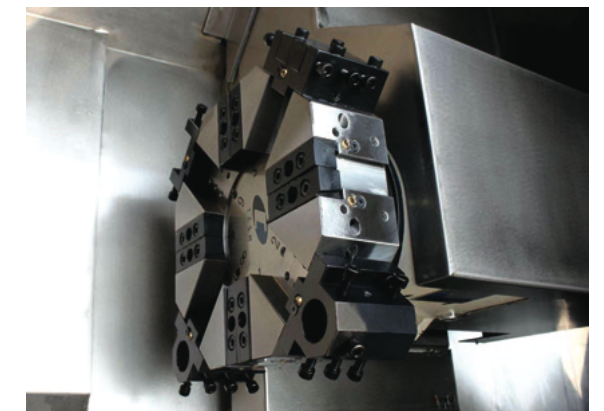
## Superior Machining Performance

Equipped with a 11 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  $\Phi 400$  (Disc) and  $\Phi 210$  (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 and performance of the machine.



## Better Support

ML-Series lathe comes with our must reliable hydraulic tailstock which enables the user to continues repeat contact on the exact location and at the same time give high rigidity support for longer parts. In addition, the ML lathe can be equipped with servo tailstock, which helps greatly reduce tailstock travel time and production.

## 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 then other machines on the market.



## TECHNICAL PARAMETERS

ITEMS	ML-46C	ML-46J
X / Z Travel (mm)	475/310	475/310
Swing Over Bed (mm)	φ 480	φ 480
Swing Over Size (mm)	φ 140	φ 140
Max Turning Diameter (disc) (mm)	-	φ 480
Max Turning Diameter (axis) (mm)	φ 42	φ 120
Max Turning Length (mm)	300	300
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)	5.5/7.5	5.5/7.5
Spindle Accuracy (mm)	0.004	0.004
X / Z axis Rapid Traverse (m/min)	30/30	30/30
X / Z axis Servo Motor (kw)	1.8/1.8	1.8/1.8
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 (KG)	2300	2300
Machine Size (mm)	2100x1380x1930	2100x1380x1932

## TECHNICAL PARAMETERS

ITEMS	ML-280	ML-280L	ML-350	ML-350L
X / Z Travel (mm)	210/400	210/600	220/800	220/1050
Swing Over Bed (mm)	φ 550	φ 550	φ 600	φ 600
Swing Over Size (mm)	φ 280	φ 280	φ 350	φ 350
Max Turning Diameter (disc) (mm)	φ 400	φ 400	φ 410	φ 410
Max Turning Diameter (axis) (mm)	φ 280	φ 280	φ 350	φ 350
Max Turning Length (mm)	400	600	730	900
Distance Between Centers (mm)	550	750	880	1130
Power Chuck Size (in)	8"	8"	10"	10"
Max. Diameter Of Bar Bore (mm)	φ 52	φ 52	φ 75	φ 75
Diameter Of Spindle Bore (mm)	φ 62	φ 62	φ 91	φ 91
Spindle Head Type (ASA)	A2-6	A2-6	A2-8	A2-8
Spindle RPM (rpm)	4000	4000	3000	3000
Spindle Motor (kw)	7.5/11	7.5/11	11/15	11.15
Spindle Accuracy (mm)	0.003	0.003	0.003	0.003
X / Z axis Rapid Traverse (m/min)	24/24	24/24	20/20	20/20
X / Z axis Servo Motor (kw)	1.8/1.8	1.8/1.8	3.0/3.0	3.0/3.0
Number of tools (units)	8	8	12	12
Position Accuracy (mm)	± 0.005	± 0.005	0.005	0.005
Repeatability (mm)	± 0.003	± 0.003	0.003	0.003
Turning Tool Size (mm)	25X25	25X25	25X25	25X25
Boring Tool Size (mm)	φ 40	φ 40	φ 40	φ 40
Tailstock Travel (mm)	400	600	680	930
Quill Taper (MT)	MT4	MT4	MT5	MT5
Machine Weight (KG)	3500	3700	4500	5000
Machine Size (mm)	2650 x1640 x 2136	2870x1640 x 2136	3800x1700x1950	4000x1700x1950

### STANDARD

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

### STANDARD

- 3 jaw hydraulic hollow chuck
- Servo turret
- Hydraulic tailstock (ML-280)
- Servo tailstock (ML-350)
- Foot switch
- Working lamp and alarm
- Tools and tool box

### 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

### OPTION

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



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