



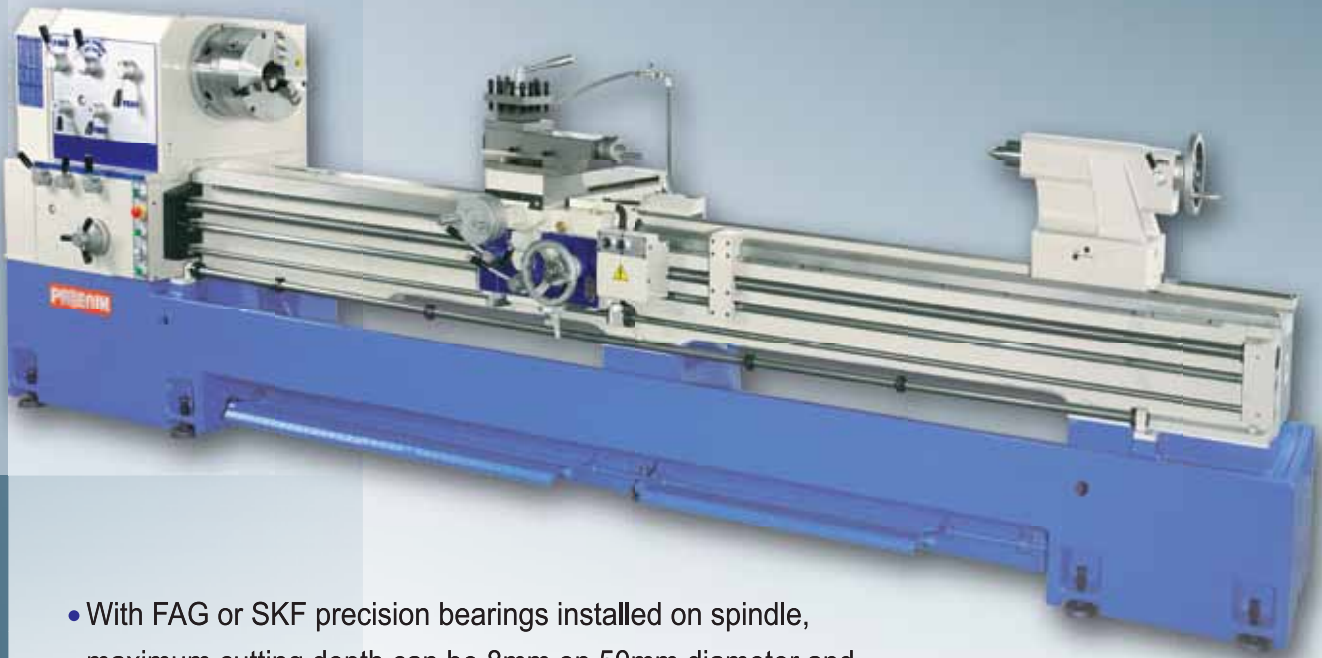
# HIGH SPEED PRECISION LATHE

*Precision, rigidity and heavy duty*



**FL-S480x1000**





- With FAG or SKF precision bearings installed on spindle, maximum cutting depth can be 8mm on 50mm diameter and best roundness reaching 0.003mm(200mm long).
- Thermal treated and precision ground alloy gears.
- Universal gearbox for both imperial and metric thread-conversion table also attached.
- Overload device to ensure safety when operating.
- Thermal treated Meehanite bed casting.
- One-piece base with high rigidity and low vibration.
- High-capacity coolant tank offers sufficient coolant output.

## ▲ FL-L660X3300

## HIGH SPEED PRECISION INVERTER TRANSMISSION LATHE



- Power-saving, stable electric current, and fine cutting trace.
- Being controlled by a rotary switch, gear shifting is simplified.
- Stepless speed, shifting any speed in the range is available.

## ▲ FL-V480X1000

## SPECIFICATIONS

MODEL	FL-S430		FL-S480		FL-S530		FL-V430		FL-V480		FL-V530	
	560	760	1000	1500	2200	560	760	1000	1500	2200		
Swing over bed	430mm(16-7/8")		470mm(18-1/2")		520mm(20-7/16")		430mm(16-7/8")		470mm(18-1/2")		520mm(20-7/16")	
Swing over cross slide	240mm(9-7/16")		280mm(11")		330mm(12-15/16")		240mm(9-7/16")		280mm(11")		330mm(12-15/16")	
Center height	215mm(8.465")		235mm(9.252")		260mm (10.236")		215mm(8.465")		235mm(9.252")		260mm (10.236")	
Distance between centers	510mm (20")	690mm (27-1/8")	940mm (37")	1440mm (56-5/8")	2200mm (86-1/2")	510mm (20")	690mm (27-1/8")	940mm (37")	1440mm (56-5/8")	2200mm (86-1/2")		
Swing over gap	650mm(25-9/16")		690mm(27-1/8")		740mm(29-1/8")		650mm(25-9/16")		690mm(27-1/8")		740mm(29-1/8")	
Bed width	300mm(11.811")					300mm(11.811")						
Spindle nose	ASA D1-6 / D1-8 ( opt. )				ASA D1-8		ASA D1-6 / D1-8 ( opt. )				ASA D1 - 8	
Spindle bore	58mm(2.283") / 80mm(3.150")(opt.)				80mm(3.150")		58mm(2.283") / 80mm(3.150")(opt.)				80mm(3.150")	
Taper of spindle bore	MT 6 / MT 7 (opt. )					MT 6 / MT 7 (opt. )						
Spindle speed	20 ~ 2000 r.p.m. (12 steps) - spindle bore : 58mm / 40 ~ 2000 r.p.m. (12 steps) - spindle bore : 80mm					20 ~ 2000 r.p.m. (stepless)						
Inch threads range	4 ~ 56 T.P.I.					4 ~ 56 T.P.I.						
Metric threads range	P 0.5 ~ 7 mm					P 0.5 ~ 7 mm						
Longitudinal feeds range	0.05 ~ 0.82mm (0.002 ~ 0.032")					0.05 ~ 0.82mm (0.002 ~ 0.032")						
Cross feeds range	0.02 ~ 0.4mm (0.001 ~ 0.0094")					0.02 ~ 0.4mm (0.001 ~ 0.0094")						
Leadscrew diameter	35mm (1.378")					35mm (1.378")						
Leadscrew pitch	4 T.P.I. or 6mm					4 T.P.I. or 6mm						
Taper of tailstock center	MT 4					MT 4						
Tailstock quill travel	150mm (5-7/8")					150mm (5-7/8")						
Tailstock quill diameter	58mm (2.283")		68mm (2.677")			58mm (2.283")		68mm (2.677")				
Main drive motor	5HP(3.75KW) / 7.5HP(5.625KW) (opt.)		7.5HP (5.625KW) / 10HP (7.5KW) (opt.)			7.5HP (5.625KW)						
Coolant pump	1/8 HP (0.1KW)					1/8 HP (0.1KW)						
Compound rest travel	125mm (4-7/8")					125mm (4-7/8")						
Cross slide travel	245mm(9-5/8")				275mm(10-13/16")		245mm(9-5/8")				275mm(10-13/16")	
Net weight (kgs)	1500 / 1680 / 1760 / 2050 / 2405		1540 / 1720 / 1800 / 2075 / 2465		1580 / 1760 / 1810 / 2135 / 2525		1500 / 1680 / 1760 / 2050 / 2405		1540 / 1720 / 1800 / 2075 / 2465		1580 / 1760 / 1810 / 2135 / 2525	

• The manufacturer reserves the right to modify the design, specifications, mechanisms...etc. to improve the performance of the machine without prior notice. All the specifications shown above are just for reference.

## OPTIONAL ACCESSORIES

- 3-jaw scroll chuck
- 4-jaw independent chuck
- Face plate
- Steady rest
- Follow rest
- Work light
- 4-position carriage stop
- Micro carriage stop
- Live centers
- Rear cutter rest
- Taper turning attachment
- Rear splash guard
- Chuck guard
- American tool post
- Change gears for D.P and module thread
- 5C lever collect closer
- Driving plate
- Quick change tool post
- Digital readouts
- Hydraulic copying machine
- Chip guard
- ID/OD Grinder
- Rapid traverse (L series)

## SPECIFICATIONS

MODEL	FL-M560		FL-M660		FL-L560		FL-L660		FL-L760		FL-L830	
	1000	1500	2200	1000	1500	2000	2500	3300	4300			
Swing over bed	560mm(22")		660mm(25-15/16")		560mm(22")		660mm(25-15/16")		760mm(29-7/8")		830mm(32-5/8")	
Swing over cross slide	340mm(13-3/8")		440mm(17-5/16")		340mm(13-3/8")		440mm(17-5/16")		540mm(21-1/4")		610mm(24")	
Center height	280mm(11.024")		330mm(12.992")		280mm(11.024")		330mm(12.992")		380mm(14.960")		415mm(16.339")	
Distance between centers	1000mm (39-3/8")	1500mm (59")	2200mm (86-1/2")	1000mm (39-3/8")	1500mm (59")	1930mm (75-7/8")	2430mm (95-5/8")	3180mm (125-1/8")	4225mm (166-1/4")			
Swing over gap	788mm(31")		890mm(35")		788mm(31")		890mm(35")		990mm(38-15/16")		1060mm(41-11/16")	
Bed width	350mm (13.780")				400mm (15.748")							
Spindle nose	ASA D1 - 8				ASA D1 - 8 / D1 - 11 ( opt. )				ASA D1 - 11			
Spindle bore	85mm(3.346")/105mm(4.134")(opt.)				85mm(3.346")/120mm(4.724")(opt.)				120mm (4.724")			
Taper of spindle bore	MT 7				MT 7							
Spindle speed	15 ~ 1500 r.p.m. (12 steps) (ø85mm bore) / 14 ~ 1380 r.p.m. (12 steps) (ø105mm bore)				15 ~ 1500 r.p.m. (12 steps) (ø85mm bore) / 10 ~ 1000 r.p.m. (12 steps) (ø120mm bore)				10 ~ 1000 r.p.m. (12 steps)			
Inch threads range	2 ~ 56 T.P.I.				2 ~ 56 T.P.I.							
Metric threads range	P 0.5 ~ 14 mm				P 0.5 ~ 14 mm							
Longitudinal feeds range	0.05 ~ 0.82mm (0.002~0.032")				0.05 ~ 0.82mm (0.002~0.032")							
Cross feeds range	0.02 ~ 0.4mm (0.001~0.0094")				0.02 ~ 0.4mm (0.001~0.0094")							
Leadscrew diameter	38mm (1.496")				38mm (1.496")							
Leadscrew pitch	4 T.P.I. or 6mm				4 T.P.I. or 6mm							
Taper of tailstock center	MT 5				MT 5							
Tailstock quill travel	165mm (6-1/2")				165mm (6-1/2")							
Tailstock quill diameter	75mm (2.953")				85mm (3.346")							
Main drive motor	7.5HP(5.625KW) / 10HP(7.5KW) (opt.)				10HP (7.5KW) / 15HP/6P (11KW) (opt.)				15HP/6P (11KW)			
Coolant pump	1/8 HP (0.1KW)				1/8 HP (0.1KW)							
Compound rest travel	200mm (7-7/8")				200mm (7-7/8")							
Cross slide travel	300mm (11-13/16")				375mm (14-3/4")							
Net weight (kgs)	2200 / 2400 / 2750		2250 / 2450 / 2800		2200 / 2550 / 2900 3150 / 3650 / 4860		2280 / 2630 / 2980 3230 / 3730 / 4940		2360 / 2710 / 3060 3310 / 3810 / 5020		2410 / 2760 / 3110 3360 / 3860 / 5070	

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## STANDARD ACCESSORIES

- |                                   |      |                          |      |
|-----------------------------------|------|--------------------------|------|
| ■ Tool Box                        | 1pc  | ■ Coolant system         | 1set |
| ■ Centers                         | 2pcs | ■ 4-way tool post        | 1set |
| ■ Safety pin                      | 1set | ■ Auto-feed stopper ring | 1set |
| ■ Screw wrench for cutter setting | 1pc  | ■ Center sleeve          | 1pc  |
| ■ Back plate                      | 1pc  | ■ Leveling pads          | 1set |



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