



PRECISION CONVENTIONAL LATHES

Model:

TK450 / 540 / 630

TK770N / 840N

PRO-TAKANG

**CNC-TAKANG CO., LTD.
MANUFACTURER & EXPORTER**

PRO-TAKANG

TK450 / 540

FEATURES :

Optimal design for excellent turning performance.

High rigidity one piece cast iron base.

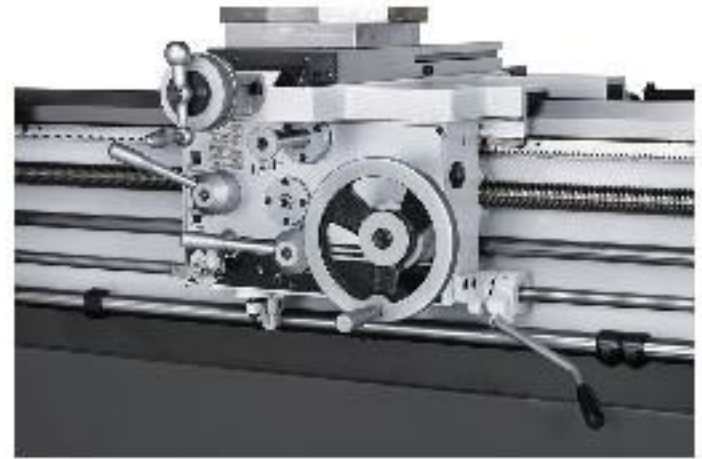


Headstock

Gears in the headstock are machined from chrome molybdenum alloy steel (SCM-21), carburized and precision ground for extremely smooth and quiet running.

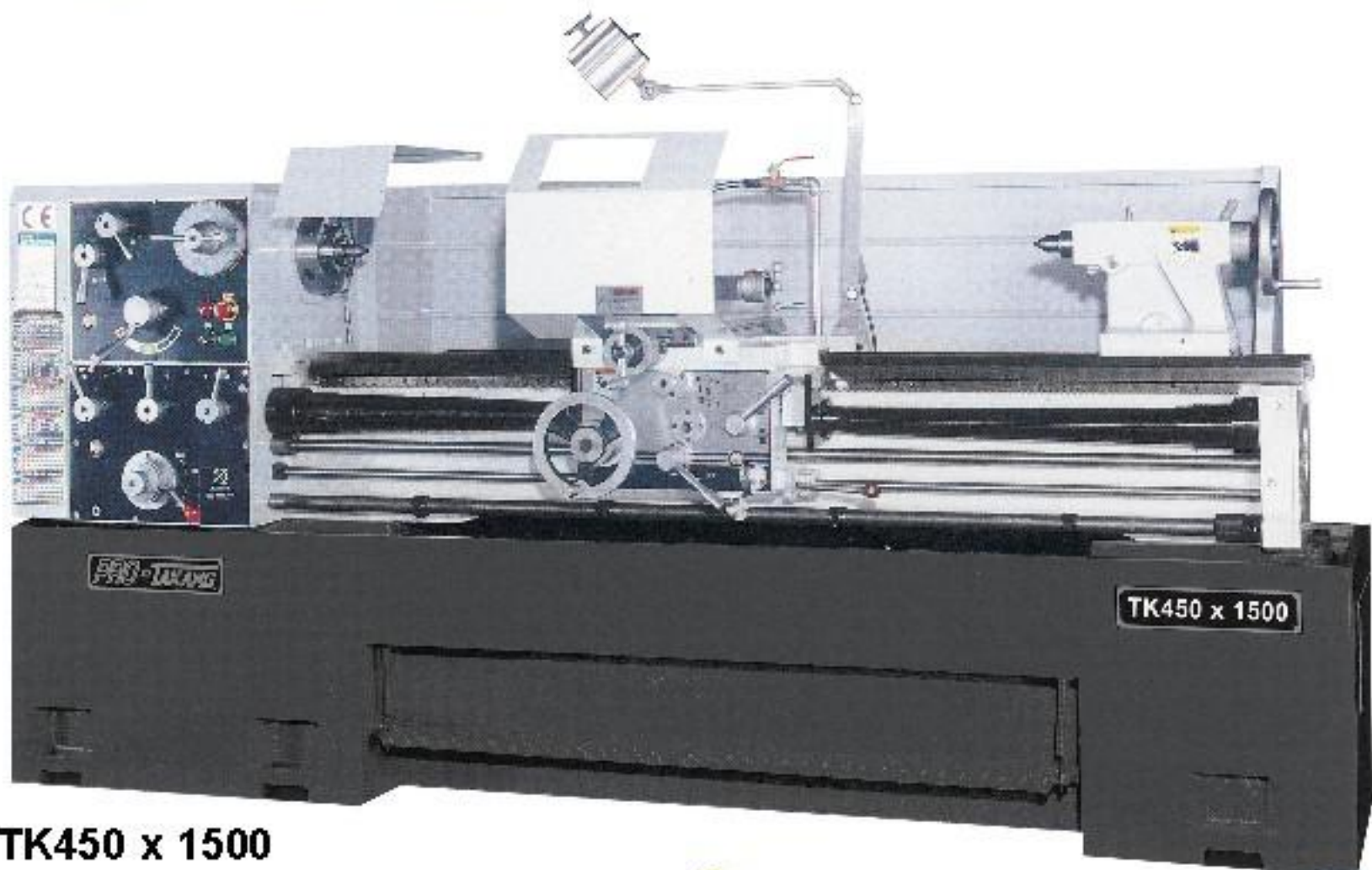
Apron

Special interlock design at apron to prevent Z axis feed and thread cutting act at the same time.



Tailstock

The tailstock is rigidly constructed, move along the bed easily.



TK450 x 1500



TK630 x 1500

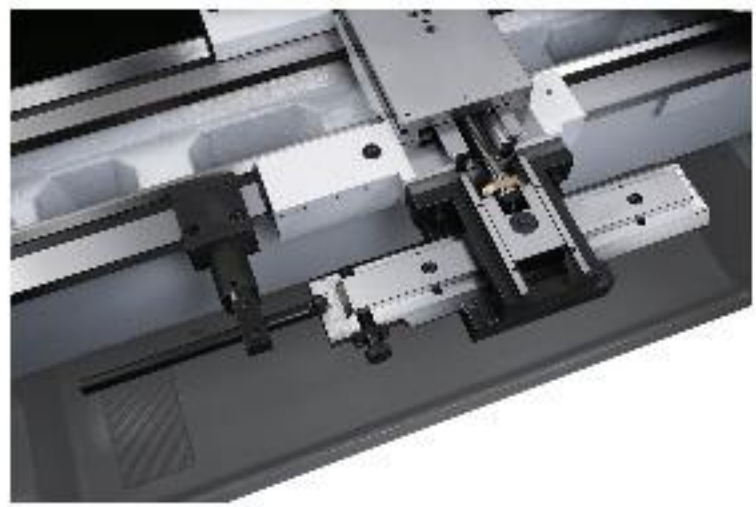
Options:



Micro bed stop



Turret type 5-position bed stop



Taper attachment



3-jaw chuck



4-jaw chuck



Steady rest



Follow rest

TK770N / 840N

FEATURES :

Cross & longitudinal rapid travel

Magnetic brake for main spindle



TK840N x 2100



Inverter type spindle control: (option)

- 3 steps variable spindle speed.
- Auto gear change with simple switch selection.
- Digital display for spindle speed.
- Quick-stop braking controlled directly by inverter.
- Constant Surface Speed control for face turning.

Spindle bore & spindle speed with inverter (rpm)					
Spindle bore	2.2"	3.3"	4"	6"	9"
TK450	33 - 3100	-	-	-	-
TK540	-	27 - 2250	20 - 1500	-	-
TK630	-	27 - 2250	20 - 1500	10 - 800	-
TK770N	-	-	20 - 1500	10 - 800	-
TK840N	-	-	20 - 1500	10 - 800	6 - 450

SPECIFICATIONS

DESCRIPTION \ MODEL		TK450	TK540	TK630
CAPACITIES	Swing over bed, mm	460 (18.1')	540 (21')	630 (25')
	Swing over cross slide, mm	290 (11.4')	360 (14')	450 (17.7')
	Swing over gap, mm	640 (25'),Opt	720 (28.3'),Opt	810 (31.9'),Opt
	Between centers, mm	1000 / 1500 / 2000 (40°, 60°, 80°)	1000 / 1500 / 2000 / 3000 (40°, 60°, 80°, 120°)	1000 / 1500 / 2000 / 3000 (40°, 60°, 80°, 120°)
HEADSTOCK	Spindle bore, mm	56 (2.2')	85 (3.3') 105 (4'),Opt	85 (3.3') 105 (4') / 153 (6'),Opt
	Spindle nose	D1 6	D1 8 / A2 11,Opt	D1 8 / A2 11,Opt
	Spindle speeds, rpm (steps)	39 2800 (18)	25 1545 (18)	25 1545 (18)
	Spindle motor, HP	7.5 / 10,Opt	10 / 15,Opt	10 / 15,Opt
THREADS	Lead screw	4 TPI or 6 mm / pitch		
	Metric / pitch, range	0.5 7 mm / pitch (24 kinds)		
	Inch, range	4 56 TPI (36 kinds)		
	Module / pitch, range	0.25 3.5 M (16 kinds)		
	DP, range	8 112 P (36 kinds)		
FEEDING RANGE	Longitudinal feeds, mm/rev.	0.06 0.88		
	Cross feeds, mm/rev.	0.03 0.44		
TAILSTOCK	Quill dia. / Center taper, mm	75 (2.95') / MT5	75 (2.95') / MT5	75 (2.95') / MT5
	Travel, mm	170 (6.69')	170 (6.69')	170 (6.69')
MISCELLANEOUS	Bed width, mm	350 (13.78')	350 (13.78')	350 (13.78')
	Cross slide travel, mm	280 (11')	305 (12')	330 (13')
	Compound rest travel, mm	120 (4.7')	150 (5.9')	150 (5.9')
	Coolant pump motor, HP	1/8	1/8	1/8
	Packing size, mm	2290 x 1150 x 1600 2790 x 1150 x 1600 3290 x 1150 x 1600	2290 x 1200 x 1700 2790 x 1200 x 1700 3290 x 1200 x 1700 4290 x 1200 x 1700	2290 x 1200 x 1700 2790 x 1200 x 1700 3290 x 1200 x 1700 4290 x 1200 x 1700
	Gross weight, kgs	2000 / 2250 / 2500	2200 / 2350 / 2600 / 2750	2250 / 2400 / 2650 / 2800

※THE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

■ STANDARD:

- Center sleeve
- Dead center
- Work light
- Thread chasing dial
- Coolant system
- Tool box with tools
- Manual

■ OPTIONS:

- 3-jaw chuck
- 4-jaw chuck
- Face plate
- Bigger spindle motor
- Steady rest
- Follow rest
- Micro bed stop
- Turret type 5 position bed stop
- Quick change tool post
- Taper attachment
- Splash guard
- CE mark
- Inverter & Auto spindle speed (3 steps)
- 105 mm (4") Spindle bore (A2-11, 23-1293 rpm)
for TK540 / TK630 Series
- 153 mm (6") spindle bore (A2-11, 13-690 rpm)
for TK630
- Gap bed

SPECIFICATIONS

DESCRIPTION \ MODEL		TK770N		TK840N		
CAPACITIES	Max swing over bed mm	770 (30 3')		840 (33')		
	Center Height mm	385 (15 2')		420 (16 5')		
	Max swing over gap mm	980 (38 5') Opt		1020 (40 2') Opt		
	Max Swing over cross slide mm	500 (19 7')		570 (22 4')		
	Distance between centers mm	1600 / 2100 / 3100 / 4100 / 5100 / 6100 (63' 83' 122' 162' 201' 240')		1600 / 2100 / 3100 / 4100 / 5100 / 6100 (63' 83' 122' 162' 201' 240')		
MAIN SPINDLE	Spindle nose	A2-11		A2-11		A2-15
	Spindle bore mm	105 (4')	153 (6') Opt	105 (4')	153 (6') Opt	230 (9') Opt
	Spindle speeds rpm (18 steps)	23 - 1293	13 - 690	23 - 1293	13 - 690	5 - 440
CARRIAGE	Cross slide travel	450 (17 7')		450 (17 7')		
	Compound rest travel	250 (9 8')		250 (9 8')		
TAILSTOCK	Tailstock spindle dia	105 (4 13')		105 (4 13')		
	Tailstock spindle travel	220 (8 7')		220 (8 7')		
	Tailstock spindle taper	MT5		MT5		
BED	Bed width	450 (17 7')		450 (17 7')		
THREADS	Lead screw	2 TPI or 12 mm / pitch				
	Metric pitch threads	0 8 - 14 mm / pitch (65 kinds)				
	Inch threads	2 - 28 TPI (36 kinds)				
	Module pitch thread	0 5 - 7 M (22 kinds)				
	DP threads	4 - 56 P (36 kinds)				
FEEDING RANGE	Longitudinal feeds mm / rev	0 05 - 0 70				
	Cross feeds mm / rev	0 025 - 0 35				
MOTOR	Main spindle motor HP	15 / 20 Opt		15 / 20 or 25 Opt		
	Rapid feed motor HP	1/4		1/4		
	Coolant pump motor HP	1/8		1/8		
MACHINE WEIGHT	Net weight kgs	3350 / 3600 / 4100 / 4600 / 5100 / 5700		3450 / 3700 / 4200 / 4700 / 5200 / 5800		

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■ STANDARD:

- Center sleeve
- Dead center
- Main drive motor
- Coolant system
- Work light
- Tool box with tools
- Manual

■ OPTIONS:

- 3-Jaw chuck
- 4-jaw chuck
- Face plate
- Steady rest
- Follow rest
- Micro bed stop
- Turret type 5 position bed stop
- Taper attachment
- Quick change tool post
- Work light
- CE mark
- Rotating center
- Splash guard
- Magnetic brake
- Gap bed
- DRO

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