

PRECISION HEAVY DUTY LATHES

Model:

TK600 / 670 / 770 / 840

TK960 / 1060 / 1200

TK1200N / 1400N / 1600N

TK1800N / 2000N / 2500N

PRO-TAKANG

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

PRO-TAKANG

HEADSTOCK

Extra heavy duty casting headstock with:

- Two opposed high precision SKF taper roller bearings
- Precision grounded and hardened gears
- Auto lubrication system

CARRIAGE and APRON

Proportional and massive size carriage and apron

Easy operation

Spring loaded longitudinal hand wheel handle

Adjustable clutch for carriage

Chrome-nickel satin finished dials

Direct reading cross feed dial

Left side thread chasing dial

Two feed shaft and lead screw supports for machine above 3 meters.

DUAL GEAR BOX

Quick change dual gear box provides both Inch and Metric threads

Fully automatic lubricated and total enclosed gear box



TK670 x 2000

BED and PEDESTAL

Extra heavily ribbed, massive designed, single piece casting bed

Stable 400 / 460mm (Opt.) width bed

Induction hardened and precision ground bed and cross slide ways



Powerful apron
Rapid traverse and controls on carriage
2 clamp down bolts for high rigidity top slide



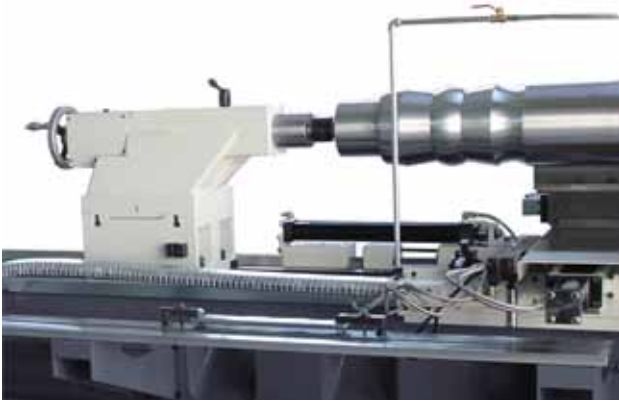
Dust and water proof electric cabinet.
Reliable components
- BUSS fuses, non-fuse breaker and main power switch.



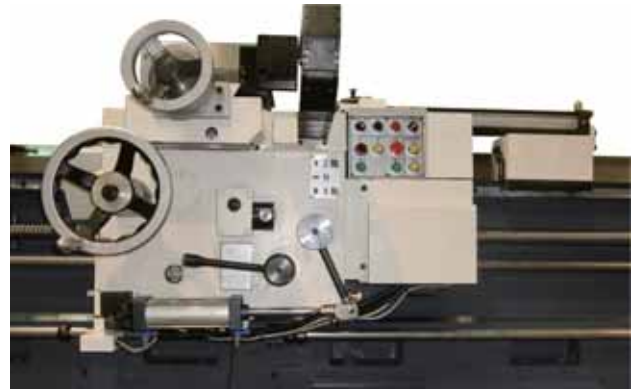
Inside of headstock shows hardened and precision ground gears and massive heavy walled casting.



TK960 / 1060 / 1200 / 1200N / 1400N / 1600N



Copy device with 120mm stroke length



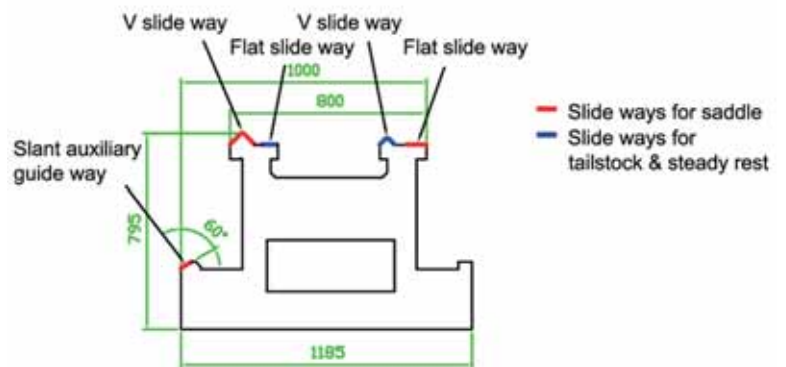
Semi-automatic rapid threading attachment



Heavy duty cast iron tailstock body
MT6 taper quill movement by
2 speed reduction box and handwheel



Heavy duty taper attachment



TK1600N x 4000

TK960 / 1060 / 1200 / 1200N / 1400N / 1600N

SPECIFICATIONS

MODEL	DESCRIPTION	TK960	TK1060	TK1200	TK1200N	TK1400N	TK1600N
Capacity	Swing over bed	960 mm (37.7")	1060 mm (41.7")	1170 mm (46")	1190 mm (46.8")	1385 mm (54.5")	1580 mm (62.2")
	Swing over cross slide	650 mm (25.5")	750 mm (29.5")	860 mm (33.8")	830 mm (32.6")	1030 mm (40.5")	1230 mm (48.4")
	Swing over gap	1510 mm (59.4")	1610 mm (63.3")	1720 mm (67.7")	1750 mm (68.8")	1950 mm (76.7")	2150 mm (84.6")
	Center height	480 mm (18.8")	530 mm (20.8")	585 mm (23")	600 mm (23.6")	700 mm (27.5")	800 mm (31.4")
	Width of gap	570 mm (22.4")			600 mm (23.6")		
	Bed width / Auxiliary guide	560 mm (22") / 660 mm (25.9")			800 mm (31.4") / 1000 mm (39.3")		
	Between centers	2M, 3M, 4M, 5M, 6M, 7M, 8M, 9M			2M, 3M, 4M, 5M, 6M, 7M, 8M, 9M, 10M, 11M, 12M, 13M, 14M		
Headstock	Spindle bore, Dia.	Dia. 156 mm (6") / Opt. 230 mm (9")	Dia. 156 mm (6") / Opt. 230 mm (9"), 310 mm (12"), 360 mm (14")		Dia. 230 mm (9") / Opt. 310 mm (12"), 360 mm (14"), 535 mm (21")		
	Spindle nose	A2-11 / Opt. A2-15	A2-11 / Opt. A2-15, A2-20		A2-15 / Opt. A2-20, A2-28		
	Spindle speed (rpm), 12 steps	9 - 600 / Opt. 6 - 400	9 - 600 / Opt. 6 - 400, 5 - 300		6 - 400 / Opt. 5 - 300, 3 - 230		
	Main spindle motor	25 HP / Opt. 30 HP			30 HP / Opt. 40 HP or 50 HP		
Feed and Threads	Cross travel	540 mm (21.2")			780 mm (30.7")		
	Cross feeds	0.065 - 0.96 mm / rev (48 kinds)			0.065 - 0.96 mm / rev (48 kinds)		
	Longitudinal feeds	0.13 - 1.92 mm / rev (48 kinds)			0.13 - 1.92 mm / rev (48 kinds)		
	Lead screw diameter	Dia. 50 mm (1.9") x 2 TPI			Dia. 50 mm (1.9") x 2 TPI		
	Threading range, metric	20 - 30 mm / pitch (44 kinds)			20 - 30 mm / pitch (44 kinds)		
	Threading range, inch	1 - 15 TPI (48 kinds)			1 - 15 TPI (48 kinds)		
	Module pitch threads	1 - 15 M (32 kinds)			1 - 15 M (32 kinds)		
	DP. pitch threads	2 - 30 P (48 kinds)			2 - 30 P (48 kinds)		
	Compound rest travel	300 mm (11.8")			320 mm (12.6")		
	Tool size	40 x 40 mm (1.5 x 1.5")			50 x 50 mm (2 x 2")		
	Rapid motor	1/2 HP			1 HP		
Tailstock	Quill Diameter	Dia. 140 mm (5.5") / Dia. 200 mm (7.87")			Dia. 200 mm (7.87") / Opt. Dia. 290 mm (11.41") rotating type		
	Center taper	MT6			MT7		
	Quill travel	300 mm (11.8")			300 mm (11.8")		
Miscellaneous	Coolant pump	1/4 HP			1/4 HP		
	Net weight, Kgs	8000 (2M), 8550 (3M), 9100 (4M), 9900 (5M), 10700 (6M), 11600 (7M), 12500 (8M), 13400 (9M)			13200 (2M), 14900 (3M), 17050 (4M), 19350 (5M), 21650 (6M), 24000 (7M), 26350 (8M), 29050 (9M), 31050 (10M), 33050 (11M), 35050 (12M), 37050 (13M), 39050 (14M)		

※ THE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

STANDARD ACCESSORIES:

1. Inch / metric dual gear box
2. 4-way toolpost with T slot
3. Work light
4. Coolant system
5. Thread chasing dial
6. Cross and Longitudinal rapid travel
7. Longitudinal bar with travel dogs (for carriage stop)
8. Magnetic brake for main spindle only
9. Tool box with tools
10. Manual

OPTIONS:

1. Upgrade spindle bore
2. Upgrade spindle motor
3. Chuck or Face plate
4. Adaptor for rear chuck
5. Front chuck protection cover
6. Rear chuck protection cover
7. 4-position carriage stop
8. Steady rest
9. Follow rest
10. Rear tool post
11. Quick change tool post
12. Boring bar tool holder
13. Rapid threading attachment
14. Auto feed on top slide
15. Taper attachment (±10 degree, stroke 500 mm)
16. Rotating center, MT7
17. Full length rear splash guard (BC. 2M - 5M)
18. Moveable rear splash guard
19. CE mark

TK1800N / 2000N / 2500N



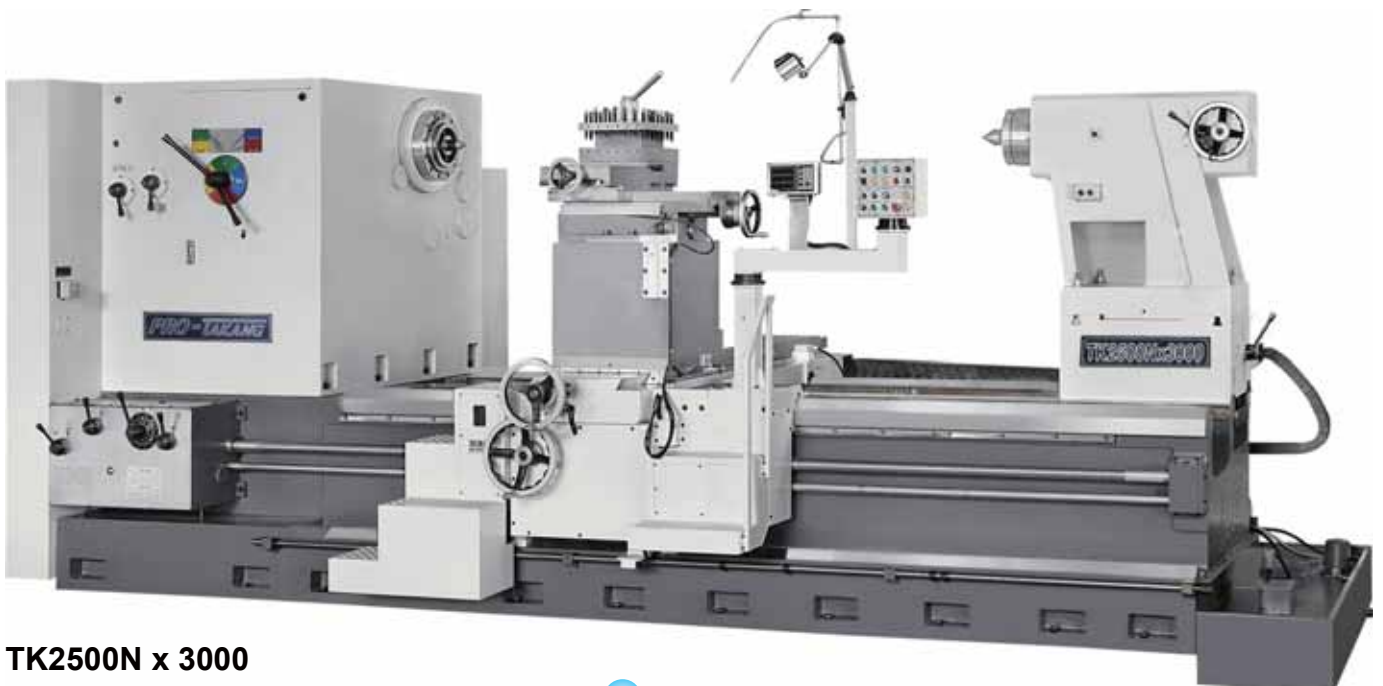
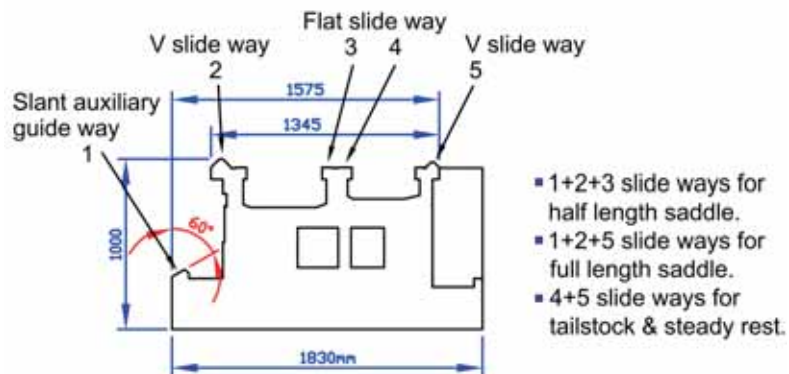
Dia. 290mm high rigidity rotation quill with A2-11 nose and MT7 inner taper movement by 2 speed reduction box and handwheel.
Tailstock body position movement by electric motor.



Heavy duty roller support bracket



Cross and longitudinal compound rest



TK2500N x 3000

SPECIFICATIONS

MODEL	DESCRIPTION	TK1800N	TK2000N	TK2500N
Capacity	Swing over bed	1775 mm (69.88")	1975 mm (77.75")	2500 mm (98.42")
	Swing over cross slide (Full length)	1350 mm (53.14")	1550 mm (61.02")	2050 mm (80.7")
	Swing over cross slide (Half length)	1530 mm (60.23")	1720 mm (67.71")	2200 mm (86.61")
	Center height	900 mm (35.43")	1000 mm (39.37")	1250 mm (49.21")
	Between centers	3000 – 12000 mm (120 – 480")		
	Bed width / Auxiliary guide	1345 mm (52.95") / 1550 mm (61.02")		
Headstock	Spindle bore, Dia.	Dia. 203 mm (8")		
	Spindle nose	A2-15		
	Spindle speed (rpm), steps	6 – 400 rpm		
	Spindle motor	75 HP		
Feed and Threads	Cross feed	0.056 – 0.96 mm / rev (45 kinds)		
	Cross slide travel	1250 mm (full length) / 510 mm (half length)		
	Compound rest travel	X1: 250 mm manual feeding / Z1: 400 mm auto feeding		
	Tool size	50 x 50 mm (2 x 2")		
	Longitudinal feeds	0.13 – 1.92 mm / rev (48 kinds)		
	Lead screw	Dia. 60 mm x 2 TPI (inch) or Dia. 60 mm x 12 mm (metric)		
	Threading range, metric	2 – 30 mm / pitch (48 kinds)		
	Threading range, inch	1 – 15 TPI (48 kinds)		
	Module pitch threads	1 – 15 M (32 kinds)		
	DP. pitch threads	2 – 30 HP (45 kinds)		
Tailstock	Quill Diameter	Dia. 290 mm (11.4") Heavy duty rotating quill		
	Center taper	MT7		
	Quill travel	300 mm (11.81")		
Miscellaneous	Rapid motor	2 HP		
	Coolant pump	1 HP		
	Lubrication pump	12 W		
	Machine weight (3 meter B.C.)	28000 kgs	29000 kgs	31000 kgs
	Each extra 1000 mm weight	3500 kgs		

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■ STANDARD ACCESSORIES:

1. Inch / metric dual gear box
2. 4-way toolpost with T slot
3. Work light
4. Coolant system
5. Thread chasing dial
6. 6-way rapid travel
7. Main motor with inverter
8. Hydraulic spindle disk brake
9. Magnetic brake for main spindle
10. Auto lubrication system
11. Electric motor for tailstock body movement
12. Tailstock rotating quill
13. Sleeve and centers
14. Leveling bolts and pads

■ OPTIONS:

1. Upgrade spindle bore
2. Upgrade spindle motor
3. Chuck or Face plate
4. Adaptor for rear chuck
5. Front chuck protection cover
6. Rear chuck protection cover
7. Boring bar tool holder (Full length cross slide only)
8. Steady rest
9. Follow rest
10. Rear tool post
11. Digital read out
12. Heavy duty roller support bracket
13. CE mark

SPECIFICATIONS

MODEL	DESCRIPTION	TK600	TK670	TK770	TK840	
Capacity	Swing over bed	600 mm (23.6")	670 mm (26.3")	770 mm (30.3")	840 mm (33")	
	Swing over cross slide	390 mm (15.3")	460 mm (18.1")	560 mm (22")	630 mm (24.8")	
	Swing over gap	820 mm (32.2")	890 mm (35")	990 mm (38.9")	1060 mm (41.7")	
	Center height	300 mm (11.8")	335 mm (13.2")	385 mm (15.2")	420 mm (16.5")	
	Gap width from spindle nose	450 mm (17.7")				
Between centers	400 mm bed	1500 mm (59"), 2000 mm (78"), 3000 mm (118"), 4000 mm (157")				
	460 mm bed	2000 mm (78"), 3000 mm (118"), 4000 mm (157"), 5000 mm (196")				
Headstock	Spindle bore, Dia.	400 mm bed	104 mm (4")	104 mm (4"), Opt. 156 mm (6") A2-11		
		460 mm bed	-	104 mm (4"), Opt. 156 mm (6") A2-11, Opt. 230 mm (9") A2-15 (TK770 / 840 only)		
	Spindle nose	D1-11 or A-11		D1-11 or A-11		
	Spindle speed (rpm)	15-1000, 12 steps		15-1000, 12 steps, Opt. 6" bore: 13-800, 12 steps, 9" bore: 10-600, 12 steps		
Spindle motor	15HP		15HP			
Feed and Threads	Cross slide travel	400 mm bed	300 mm	385 mm	-	
		460 mm bed	-	385 mm	435 mm	
	Cross feeds	0.025-0.35 mm / rev (36 kinds)				
	Longitudinal feeds	0.05-0.7 mm / rev (36 kinds)				
	Lead screw diameter	Dia. 45 mm				
	Lead screw pitch	2TPI (inch) or 12 mm(metric)				
	Threading range, inch	2-28 TPI (36 kinds)				
	Threading range, metric	0.8-14 mm (65 kinds)				
	Module pitch threads	0.5-7M (22 kinds)				
	DP. pitch threads	4-56P (36 kinds)				
	Compound rest travel	230 mm (9")				
	Tool size	25 x 25 mm				
Taper attachment stock (Opt.)	400 mm (15.7")					
Tailstock	Quill Diameter	400 mm bed	80 mm (3.1")			
		460 mm bed	95 mm (3.7")			
	Center taper	MT5				
Quill travel	230 mm (9")					
Miscellaneous	Coolant pump	1/8 HP				
	Net weight, Kgs (1500 mm)	400 mm bed	2750	2850	3000	-
		460 mm bed	2950	3050	3200	-
	Net weight, Kgs (2000 mm)	400 mm bed	-	3150	3300	3400
		460 mm bed	-	3700	3850	3950
	Net weight, Kgs (3000 mm)	400 mm bed	3500	3600	3750	-
		460 mm bed	-	3700	3850	3950
	Net weight, Kgs (4000 mm)	400 mm bed	4050	4150	4300	-
460 mm bed		-	4250	4400	4500	
Net weight, Kgs (5000 mm)	460 mm bed	-	4900	5000	5100	

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STANDARD ACCESSORIES:

1. Inch / metric dual gear box
2. 4-way toolpost with T slot
3. Work light
4. Coolant system
5. Thread chasing dial
6. Cross and Longitudinal rapid travel for 460 mm bed width
7. Longitudinal rapid travel for 400 mm bed width
8. Longitudinal bar with travel dogs for carriage stop
9. Sleeve and centers

OPTIONS:

1. Upgrade spindle bore
2. Upgrade spindle motor
3. Chuck or face plate
4. Adaptor for rear chuck
5. Front chuck protection cover
6. Rear chuck protection cover
7. 4-position carriage stop
8. Steady rest
9. Follow rest
10. Rear tool post
11. Quick change tool post
12. Boring bar tool holder
13. Rapid threading attachment (TK770 / 840 only)
14. Copy attachment (stroke 120 mm)
15. Taper attachment (10 degree, stroke 400 mm)
16. Rotating center, MT5
17. Full length rear splash guard
18. Moveable rear splash guard
19. Cross rapid travel for 400 mm bed width
20. Magnetic brake for main spindle
21. CE mark

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