

TNC 460/530 TNC 660A/770A/890A

TEACH-IN CNC LATHES

WITH FAGOR CONTROLLER



- EASY OPERATION
- ECONOMIC, HIGH EFFICIENCY
- MULTI FUNCTION



CNC-TAKANG CO., LTD. MANUFACTURER & EXPORTER



CONTROLLER FEATURES

WIDER SELECTIONS

Manual operation with D.R.O. function. Semi-auto operation with auto feeding. Fully CNC operated lathes.

EASY OPERATION

Interactive graphic data entry. Operations defined by symbol keys. Semi, fully-auto operation modes.

MORE ADVANTAGES

Automatic part repetition for mass production. Mini. preparation time. Part-operation sequence storage Tool data back-up

■ HARDWARE & OPERATION FUNCTIONS

Fagor 8055TC control + 11" LCD monitor Integrated PLC 8 bit bus, 32K RAM Serial port(RS232 communication) Teach-in mode Semi-automatic, automatic (Cycle) and part program modes Automatic acceleration/deceleration Rapid traverse Self diagnostic routines Constant surface speed (CSS) Two electronic handwheels Automatic home searching Program input via RS-232 or floopy disk (option)

■ CONTROL PANEL FUNCTION KEYS

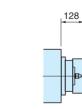
Auxiliary functions key Axis selection Begin/End points entry Constant surface speed Coolant on/off key Cycle start/Cycle stop Emergency stop Feed and rapid override Feedrate entry Icon keys for operations Inc/abs coordinate selection Jog selection

New tool selection Numeric keyboard Output active/deactive keys Parameter keys for operations Recall function Reset Single pass mode Spindle forward / reverse / off Spindle override Spindle speed entry Spindle speed max. limitation in CSS Zoom window function



■ WORK RANGE : TNC460 / 530

MODEL	TNC460 / 530 x 1000	TNC460 / 530 x 1500		
A1 B1	1000 mm (40")	1520 mm (60") 1415 mm (56")		
	895 mm (35")			
C 1	770 mm (30")	1290 mm (51")		
	C ₁			
Tappir Finish -Finisl -Finisl	le drilling cycle ng cycle ing pass conditions set n stock to be removed ning feedrate	up:		



■ AUTOMATIC OPERATION

Turning cycle Facing cycle Taper turning cycle Rounding cycle Threading cycle Grooving cycle Straight section profiling cycle: -Pattern repeating -Stock removal

-Safety distance Two execution levels:

■ MACHINE CONSTRUCTION BRIEF

HEAD STOCK

3 positions bearing supported spindle, ground and hardened gear, auto lubricant and gear oil bathing system.

BEDWAY

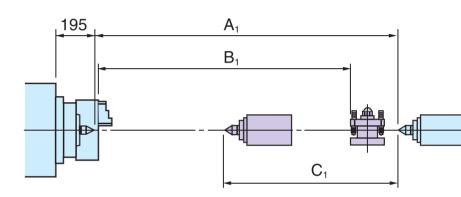
Meehanite FC-30 casting, heat-treat hardened, HS-70° hardness, precision ground, auto-lubricating system, high accurate ballscrews for X & Z axis.

■ MORE STANDARD FUNCTIONS **OF THE CONTROLLER**

Display Programming Tooling compensation

■ WORK RANGE : TNC660A / 770A / 890A

MODEL	TNC660A / 770A / 890A x 1500	TNC660A / 770A / 890A x 2000	TNC660A / 770A / 890A x 3000	TNC660A / 770A / 890A x 4000	TNC660A / 770A / 890A x 5000	
A 1	1520 mm (60")	2030 mm (80")	3050 mm (120")	4050 mm (159.5")	5050 mm (198.8")	
Bı	1380 mm (54.3")	1890 mm (74.4")	2910 mm (114.6")	3910 mm (154")	4910 mm (193.3")	
C 1	1350 mm (53.1")	1860 mm (73.2")	2880 mm (113.4")	3880 mm (152.8")	4880 mm (192.1")	



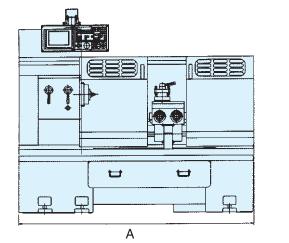


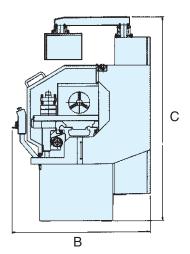


-Semi-automatic & automatic (cycle)



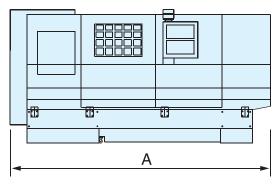
■ DIMENSION: TNC460 / 530

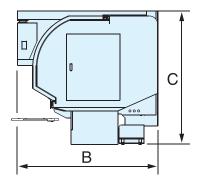




MODEL A		В	С	
TNC460 x 1000	2190 mm (86.2")	1280 mm (50.4")	1900 mm (74.8")	
TNC460 x 1500	2710 mm (106.7")	1280 mm (50.4")	1900 mm (74.8")	
TNC530 x 1000 2190 mm (86.2")		1340 mm (52.7")	1935 mm (76.2")	
TNC530 x 1500	2710 mm (106.7")	1340 mm (52.7")	1935 mm (76.2")	

DIMENSION: TNC660A / 770A / 890A





MODEL	А	В	С	
TNC660A x 1500	C660A x 1500 3795 mm (149.4")		1920 mm (75.6")	
TNC660A x 2000	4295 mm (169.1")	2090 mm (82.3")	1920 mm (75.6")	
TNC660A x 3000	5295 mm (208.5")	2090 mm (82.3")	1920 mm (75.6")	
TNC660A x 4000	6295 mm (247.8")	2090 mm (82.3")	1920 mm (75.6")	
TNC660A x 5000	7295 mm (287.2")	2090 mm (82.3")	1920 mm (75.6")	
TNC770A x 1500	3795 mm (149.4")	2090 mm (82.3")	1920 mm (75.6")	
TNC770A x 2000	4295 mm (169.1")	2090 mm (82.3")	1920 mm (75.6")	
TNC770A x 3000	5295 mm (208.5")	2090 mm (82.3")	1920 mm (75.6")	
TNC770A x 4000	6295 mm (247.8")	2090 mm (82.3")	1920 mm (75.6")	
TNC770A x 5000	7295 mm (287.2")	2090 mm (82.3")	1920 mm (75.6")	
TNC890A x 1500	3798 mm (149.4")	2090 mm (82.3")	1920 mm (75.6")	
TNC890A x 2000	4295 mm (169.1")	2090 mm (82.3")	1920 mm (75.6")	
TNC890A x 3000	5295 mm (208.5")	2090 mm (82.3")	1920 mm (75.6")	
TNC890A x 4000	6295 mm (247.8")	2090 mm (82.3")	1920 mm (75.6")	
TNC890A x 5000	7295 mm (287.2")	2090 mm (82.3")	1920 mm (75.6")	



SPECIFICATIONS:

MODEL	DESCRIPTION	TNC460 / 460L	TNC530 / TNC530L	TNC600	TNC660A	TNC770A	TNC890A	
	Swing over bed	460 mm (18")	530 mm (20.9")	600 mm (23.6")	660 mm (26")	770 mm(30.3")	900 mm(35.4")	
	Swing over cross slide	240 mm (9.4")	305 mm (12")	365mm (14.3")	360 mm (14.2")	470 mm(18.5")	600 mm(23.6")	
Capacity	Center height	230 mm (9")	265 mm (10.4")	300 mm (11.8")	325 mm (12.8")	380 mm(15")	445 mm(17.5")	
	Distance between center	1000 mm (40"), 1500 mm (60")	1100 mm (44"), 1520 mm (60")	2000 mm (44"), 3000 mm (118")	1500 mm (60"), 2000 mm (80"), 3000 mm (120"), 4000 mm (157"), 5000 mm (196")			
	Bed Width	350 mm (13.8")	350 mm (13.8")	385 mm (15.2")	480 mm (18.9°)			
Spindle	Spindle nose	A1-6 or D1-6	A1-8 or D1-8	A1-8 or D1-8	A1 - 11 or D1 - 11			
	Spindle speeds (4 steps)	H1: 900-2500 rpm H2: 320-1000 rpm L1: 110- 400 rpm L2: 45- 150 rpm	H1: 550-1600 rpm H2: 210- 640 rpm L1: 80- 250 rpm L2: 30- 100 rpm	H1: 550-1600 rpm H2: 210- 640 rpm L1: 80- 250 rpm L2: 30- 100 rpm	H1: 541-1200 rpm H2: 166- 540 rpm L1: 76- 165 rpm L2: 25- 75 rpm			
	Spindle bore	idle bore 54 mm (2.1") 80 mm (3.2") 80 mm (3.2") 10	104 mm (4")	104 mm (4") / 155 mm (6") (OPT)	104 mm (4") / 155 mm (6"), 230 mm (9") (OPT)			
	Chuck size	8"	10"	10"	12" / 15" (OPT)			
Turret	Longitudinal travel (Z axis)	895 mm (35.2"), 1415 mm (55.7")	895 mm (35.2"), 1415 mm (55.7")	1900 mm (74.9"), 2900 mm (114.2")	1305 mm (51.4") 1800 mm (70.8"), 2800 mm (110.2"), 3800 mm (149.6"), 4800 mm (188.98")			
	Cross slide travel (X axis)	280 mm (11")	300 mm (11.8")	335 mm (13.2")	400 mm (15.7")			
	Top slide width	115 mm (4.5")	125 mm (4.9")	125 mm (4.9")	280 mm (11")			
	Size of toolpost shank	25 x 25 mm (1"x1")	25 x 25 mm (1"x1")	25 x 25 mm (1"x1")	32 x 32 mm (1.3" x 1.3")			
	X axis rapid travel	5M / min. (200 ipm)	5M / min. (200 ipm)	5M / min. (200 ipm)			nin. (200 ipm)	
	Z axis rapid travel	10M / min. (400 ipm)	10M / min. (400 ipm)	6M / min. (240 ipm))	
	Tailstock diameter	65 mm (2.5")	65 mm (2.5")	65 mm (2.5")	105 mm (4.1")			
Tailstock	Tailstock travel	150 mm (6")	150 mm (6")	150 mm (6")	150 mm (6")			
	Tailstock taper	MT5	MT5	MT5	MT6			
Motor	Spindle motor	7.5 HP / 10 HP (OPT)	10 HP / 15 HP (OPT)	15 HP	20 HP / 25 HP (OPT)			
	Drives(X,Z)	DC SERVO	DC SERVO	AC SERVO	AC SERVO			
	Range of feeds in manual mode	0.01-500 m / rev. (0.0004-19.68 in / rev.)	0.01-500 m / rev. (0.0004-19.68 in / rev.)	0.01-500 m / rev. (0.0004-19.68 in / rev.)	0.01~500 mm / rev (0.0004~19.68 in / rev)			
	Coolant pump motor	1/8 HP	1/8 HP	1/8 HP	1/4 HP		10000	
Machine weight	Machine weight	2270 kgs (5000 lbs), 2724 kgs (6000 lbs)	3000 kgs (6600 lbs), 3500 kgs (7700 lbs)	4000 kgs (5500 lbs), 4500 kgs (6050 lbs)	5000 kgs (11000 lbs), 5500 kgs (12100 lbs), 6500 kgs (14300 lbs), 7500 kgs (16500 lbs) 8500 kgs (18700 lbs)			

**** THE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.**

STANDARD ACCESSORIES:

- 1. Auto lubrication system
- 2. Coolant system
- 3. 4 stations manual toolpost
- 4. Rear splash guard with two slide front doors
- 5. RS-232 port
- 6. Work light
- 7. Adapter sleeve
- 8. Two dead center
- 9. Leveling bolts & pads
- 10. Tool box with tools
- 11. Accuracy test record
- 12. Operation & service manual

CNC-TAKANG CO., LTD.

No. 72, Alley 7, Lane 98, 1st Road, Taichung Industrv Park. Taichung 40767, TAIWAN F

OPTIONS:

- 1. Larger spindle motor
- 2. Bigger spindle bore
- 3. 3-jaw chuck (OD)
- 4. 4-jaw chuck (OD)
- 5. Hydraulic chuck (OD, Through hole)
- 6. Face plate
- 7. Steady rest
- 8. Follow rest
- 9. Quick change tool post
- 10. 4 stations electric turret
- 11. 8 stations hydraulic turret with direct type disk
- 12. Rotation center
- 13. Hydraulic tailstock
- 14. Chip conveyor
- 15. CE mark
- 16. Transformer (power supply expect 220V)