



TC HEAVY

400 - 500 - 550 - 600

Monolithic structure

Infinitely variable spindle speeds (Inverter)

Powered small tool post



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TC HEAVY / Features

Technical Specifications		400	500	550	600
Height of centres	mm	400	500	550	600
Swing over bed	mm	800	1000	1100	1200
Swing over cross slide	mm	500	670	750	850
Distance between centres	mm	1500... 12000			
Bed width	mm	600			
Spindle bore	mm	100			
Spindle nose	ASA	11"			
Infinitely variable spindle speeds (Inverter)	rpm	N. 4 ranges from 6 up to 800 rpm			
Main motor power (S6/S1)	Kw	18.5 (22 - 30)			
Range of longitudinal feeds	mm/rev	(64) 0.08 - 9.6			
Range of transversal feeds	mm/rev	(64) 0.04 - 4.8			
Range of transversal feeds	mm/rev	(64) 0.02 - 2.4			
Range of threads Metric	mm	(53) 1 - 120			
Range of threads Whitworth	T.P.I.	(49) 30 - 1/4			
Range of threads Module	mm	(54) 0.5 - 60			
Range of threads Diametral Pitch	DP	(56) 1/2 - 60			
Cross slide travel	mm	500	600		
Cross slide travel	mm	270			
Tailstock quill diameter	mm	120 (200 rotating quill)			
Tailstock quill travel	mm	250			
Tailstock quill taper	Morse	6			
Maximum weight of workpiece between centers	Kg	5000 (7000)			

Weigth		400	500	550	600
Weight of the lathe of 3000 mm (D.B.C.)	Kg	8500	8800	9100	9400
Each additional meter	Kg	+1200			

TC HEAVY / Equipment

Standard equipment

- Bed – Headstock – Tailstock – Carriages made of cast iron
- Bed guideways are induction hardened and ground
- Headstock with induction hardened and ground gears; spindle is assembled on high accuracy bearings
- Carriages are sliding on antifriction material
- **Monolithic structure**
- **Infinitely variable spindle speeds (inverter + potentiometre to increase/decrease spindle speed + rpm-counter display)**
- **Powered small tool post**
- **Rapid feeds**
- **Tailstock displacement along bed by handwheel and rack system**
- Electric plant with low voltage control panel; it is placed in a suitable airtight cabinet. Make of components is Siemens and/or Schneider
- Spindle reduction sleeve
- 2 Dead centres
- **Safety protections according to EC standards:** plexiglas safety chuck guard with microswitch – turret plexiglas safety guard – **rear protection along full length of the machine** – protection of leadscrew and feed bars – emergency mushroom button
- Chip tank on wheels
- Cooling system with electro-pump
- Central lubrication of guideways with **automatic pump**
- **Steady rest and follow rest**
- Service tools and wrenches – Test certificate – Full electric diagram – Operation and maintenance book – Machine built according EC standards

Optional equipment

- Manual tool holder turret: Squared (4-way tool post) – Quick change turret – Indexing turret – Multifix turret
- 3 or 4 jaw self centering chuck
- 4-jaw independent chuck
- Live centre
- 2 or 3 axis digital readout
- Steady rest with larger Ø than standard one
- Work area lighting
- Cutting Surface Speed
- Powered displacement of tailstock along bed
- Taper turning attachment
- Grinding equipment
- Levelling and anchoring pads