



TC HEAVY BIG BORE

380 - 430 - 500 - 625



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TC HEAVY BIG BORE / Features

Technical Specifications		380	430	500	625
Height of centres	mm	380	430	500	625
Swing over bed	mm	760	860	1000	1250
Swing over cross slide	mm	500	600	690	920
Swing in gap	mm	900	1000	1200	1450
Distance between centers	mm	1500 - 2000 - 3000 - 4000 - 5000 - 6000			
Bed width	mm	560		700	
Spindle bore	mm	132		155	
Spindle nose	-	Camlock 11"		ASA 15"	
Number of spindle speeds	N.	17		24	
Spindle speed range	rpm	8:1000		5:1000	
Main motor power (S1 - 100%)	Kw	15		22(30)	
Range of longitudinal feeds	mm/rev	(150) 0.039 - 18		(160) 0,032 - 38,9	
Range of transversal feeds	mm/rev	(150) 0.02 - 9		(160) 0,016 - 19,45	
Range of threads Metric	mm	(76) 0.5 - 180		(80) 0,5 - 480	
Range of threads Whitworth	tr/1"	(76) 60 - 1/6		(80) 60 - 1/16	
Range of threads Module	mm	(76) 0.125 - 45		(80) 0,125 - 120	
Range of threads Diametral Pitch	DP	(76) 240 - 2/3		(80) 240 - 1/4	
Cross slide travel	mm	400	430	520	650
Top slide travel	mm	150		250	
Tailstock quill diameter	mm	105		125	
Tailstock quill travel	mm	220		250	
Tailstock quill taper	Morse	6		6	

Weigth		380	430	500	625
TC HEAVY BIG BORE x 1500	Kg	5000	5200	7500	8000
TC HEAVY BIG BORE x 2000	Kg	5400	5600	---	---
TC HEAVY BIG BORE x 3000	Kg	6200	6400	9000	9500
TC HEAVY BIG BORE x 4000	Kg	7000	7200	10000	10500
TC HEAVY BIG BORE x 5000	Kg	7800	8000	11000	11500
TC HEAVY BIG BORE x 6000	Kg	8600	8800	12000	12500

TC HEAVY BIG BORE / Equipment

Standard equipment

- Bed – Legs – 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
- **Motorized small tool post (on models 500-625 only)**
- **Double mechanical clutch**
- **Electromagnetic brake**
- **Rapid feeds**
- **Displacement of tailstock along bed through handwheel and rack system (on model 380-430 only)**
- 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**
- Monolithic structure
- Double mechanical clutch
- Electromagnetic brake
- Rapid feeds
- Tailstock displacement along bed by handwheel and rack system
- 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
- 6 position longitudinal stop
- Thread chasing dial
- Work area lighting
- Variable spindle speeds (Inverter)
- Cutting Surface Speed
- Powered small tool post
- Powered displacement of tailstock along bed
- Taper turning attachment
- Grinding equipment
- Levelling and anchoring pads