



5 STAR evo

50 - 80

Monolithic Structure 5th Supporting Guideway Lathe with 4 Bed-Guideways



5 STAR evo / Features

Technical Specifications		50	80	
CNC	Mod.	Fagor (Fanuc / Siemens / Heidenhain)		
Height of centres	mm	400	500	
Swing over bed	mm	800	1000	
Swing over cross slide	mm	500	750	
Distance between centers	mm	3000 12000	3000 16000	
Bed width	mm	670	1100	
Number of guideways	N.	5 (4+1)	5 (4+1)	
Maximum weight of workpiece between centers	Kg	6000 (7500)	10000	
Spindle bore	mm	130	130	
Spindle nose	Asa	11"	15"	
Speed ranges (Automatic)	N.	2	2	
Spindle speed range	rpm	0:1200	0:1000	
Main motor power (S6/S1)	Kw	45/30 (56/37)	56/37 (71/51)	
Cross slide travel	mm	400	500	
X-Z axis rapid traverse	m/min	9 9		
Tailstock quill diameter	mm	120200(200 rotating quill)rotating quill		
Tailstock quill travel	mm	250	300	

Weigth		50	80
Weight of the lathe of 3000 mm (D.B.C.)	Kg	15000	21000
Each additional meter	Kg	+1500	+2000

Optional



5 STAR evo / Equipment

Standard equipment

- NC FAGOR or SIEMENS or FANUC or HEIDENHAIN
- Beds Legs Headstock Tailstock Carriages made of cast iron
- Lathe with n. 4 guideways: central guideway is double to allow the carriage to move without any interference with steady rest and tailstock
- · Spindle line supported by high accuracy bearings
- Carriages are sliding on antifriction material
- High accuracy ground and certified ballscrews on X & Z (up to DBC 5000 mm); from DBC 6000 mm the longitudinal carriage movement is made by hardened and ground rack with inclined teeth, double pre-charged pinion and n. 2 servomotors
- Electric plant with low voltage control panel; it is placed in a suitable airtight cabinet. Make of components is Siemens and/or Schneider
- Automatic lubrication controlled by NC
- Enclosure with front sliding doors and work area lighting with led lamps
- Control programming panel, screen and handwheel mounted on a moving orientable arm (to place it on the best position for operator)
- Telescopic protections of cross slides
- Safety protections according EC standards
- Chip tanks on wheels
- Cooling system with electropump.
- Safety microswitch (to prevent collision) for X axis, Z axis and tailstock
- End-stroke for X/Z axis and tailstock
- Steady rest
- 3 colours lighting
- Heat exchanger for oil cooling in the headstock
- Monolithic structure
- Automatic speed change gear box Baruffaldi with mechanic ratio 1:4
- Tailstock with rotating quill
- Portable electronic handwheel
- 5th guideway for supporting the carriage
- Set of service tools and wrenches Operation and maintenance book with test certificate – NC programming manuals – Full electric diagram – Machine built according to EC standards

Optional equipment

- Hydraulically or pneumatic operated chucks
- Manual self-centering chucks
- 4-independant jaw chuck
- Manual turret
- Automatic 4 position turret
- Automatic 8/12 position disc turret
- Automatic powered disc turret with 8/12 positions
- "C" with continuous movement by using the main motor or an independant motor.
- "Y" Axis
- Hydraulically operated tailstock quill movement
- Tailstock with hydraulically operated locking/unlocking of tailstock base long bed
- · Powered displacement of tailstock along bed
- Tailstock with rotating quill
- Chip conveyor
- Hydraulically operated steady rest
- Steady rest with larger Ø than standard
- Roller support steady for heavy loads
- Follow rest
- · Boring bar support assembled on carriage
- Grinding unit
- Milling unit
- Handwheels placed on carriage like on manual lathes
- Air conditioner on electric cabinet
- Mist suction system
- Tool control probe
- Workpiece control probe
- Optical pressurized linear scales on X & Z axis
- Double carriage

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