



ATL HEAVY evo

400 - 500 - 550 - 600

Monolithic structure



MCM Srl Piazzale del Planetario 7/8/9, Loc. Levane 52025 Montevarchi (AR) Italy

Tel: +39 055 978 8508 Fax: +39 055 9789944 Email: mcmsrl@mcmsrl.com Sito Web: www.mcmsrl.com

ATL HEAVY evo / Features

Technical Specifications		400	500	550	600
CNC	Mod.	Fagor (Fanuc / Siemens / Heidenhain)			
Height of centres	mm	400	500	550	600
Swing over bed	mm	800	1000	1100	1200
Diametro ammesso sulla slitta	mm	500	680	750	850
Distance between centers	mm	1500... 12000			
Bed width	mm	600			
Number of guideways	N.	2 (3)			
Maximum weight of workpiece between centers	Kg	5000 (7000)			
Spindle bore	mm	100 (130)			
Spindle nose	Asa	11"			
Speed ranges (Automatic)	N.	2			
Spindle speed range	rpm	0:1200			
Main motor power (S6/S1)	Kw	45/30 (56/37)			
Cross slide travel	mm	500	600		
X-Z axis rapid traverse	m/min	9			
Tailstock quill diameter	mm	120 (200 rotating quill)			
Tailstock quill travel	mm	300			
Tailstock quill taper	Morse	6			

Weigth		400	500	550	600
Weight of the lathe of 3000 mm (D.B.C.)	Kg	11000	11400	11800	12200
Each additional meter	Kg	+1500			

ATL HEAVY evo / Equipment

Standard equipment

- NC FAGOR or SIEMENS or FANUC or HEIDENHAIN
- Beds – Headstock – Tailstock – Carriages made of cast iron
- **Monolithic structure**
- Induction hardened and ground guideways with hardness 50-55 HRC
- Spindle line supported by high accuracy bearings
- **Automatic speed change gear box Baruffaldi with mechanic ratio 1:4**
- 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
- **Powered displacement of tailstock along bed**
- **Portable electronic handwheel**
- Set of service tools and wrenches – Manual – NC programming manuals – 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
- **Tailstock with built-in rotating centre Ø 200 mm**
- 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
- **3° bottom guideway**
- Optical pressurized linear scales on X & Z axis