



# ATL MEGALOS evo

800 - 900 - 1000 - 1100 - 1200

Bed width 1100 mm

**3° Supporting Guideway**  
**Monolithic Structure**  
**Rotating Tailstock Quill**



**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](mailto:mcmsrl@mcmsrl.com) Sito Web: [www.mcmsrl.com](http://www.mcmsrl.com)

# ATL MEGALOS evo / Features

Technical Specifications		800	900	1000	1100	1200
CNC	Mod.	Fagor (Fanuc / Siemens / Heidenhain)				
Height of centres	mm	800	900	1000	1100	1200
Swing over bed	mm	1600	1800	2000	2200	2400
Swing over cross slide	mm	1200	1400	1600	1800	2000
Distance between centers	mm	2000... 16000				
Bed width	mm	1100				
Number of guideways	N.	3 (2+1)				
Maximum weight of workpiece between centers	Kg	18000				
Spindle bore	mm	130				
Spindle nose	Asa	15" (20")				
Speed ranges (Automatic)	N.	4				
Spindle speed range	rpm	0:400				
Main motor power (S6 - S1)	Kw	71/51 (100/71)				
Cross slide travel	mm	1200				
X-Z axis rapid traverse	m/min	8				
Tailstock quill diameter	mm	240 rotating quill				
Tailstock quill travel	mm	300				
Tailstock quill taper	Morse	80; 1:7				

Weigth		800	900	1000	1100	1200
Weight of the lathe of 3000 mm (D.B.C.)	Kg	27000	29000	31000	33000	35000
Each additional meter	Kg	+2500				

# ATL MEGALOS evo / Equipment

## Standard equipment

- NC FAGOR or SIEMENS or FANUC or HEIDENHAIN
- Beds – Headstock – Tailstock – Carriages made of cast iron
- **Monolithic structure**
- **Headstock with n. 4 automatic speed ranges**
- **Bottom supporting guideway (3° guideway)**
- Induction hardened and ground guideways with hardness 50-55 HRC
- Bed guideways are induction hardened and ground
- 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**
- **Tailstock with rotating quill**
- **Power displacement of tailstock along bed**
- 3 colours lighting
- Heat exchanger for oil cooling in the headstock
- **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
- 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