



# ATL HEAVY PLUS evo

500 - 625 - 700 - 800L

Bed width 755 mm

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



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# ATL HEAVY PLUS evo / Features

Technical Specifications		500	625	700	800L
CNC	Mod.	Fagor (Fanuc / Siemens / Heidenhain)			
Height of centres	mm	500	625	700	800
Swing over bed	mm	1000	1250	1400	1600
Swing over cross slide	mm	650	850	1000	1200
Distance between centers	mm	1500... 16000			
Bed width	mm	755			
Number of guideways	N.	3 (2+1)			
Maximum weight of workpiece between centers	Kg	10000			
Spindle bore	mm	130			
Spindle nose	Asa	15"			
Speed ranges (Automatic)	N.	2 (4)			
Spindle speed range	rpm	0:800			
Main motor power (S6/S1)	Kw	56/37 (71/51)			
Cross slide travel	mm	800			
X-Z axis rapid traverse	m/min	9			
Tailstock quill diameter	mm	200 rotating quill			
Tailstock quill travel	mm	300			
Tailstock quill taper	Morse	6			

Weigth		500	625	700	800L
Weight of the lathe of 3000 mm (D.B.C.)	Kg	16000	16300	16600	16900
Each additional meter	Kg	+2000			

# ATL HEAVY PLUS evo / Equipment

## Standard equipment

- NC FAGOR or SIEMENS or FANUC or HEIDENHAIN
- Beds – Headstock – Tailstock – Carriages made of cast iron
- **Monolithic structure**
- **Bottom supporting guideway (3° guideway)**
- **Automatic speed change gear box Baruffaldi with mechanic ratio 1:4**
- Induction hardened and ground guideways with hardness 50-55 HRC
- 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
- Optical pressurized linear scales on X & Z axis