

# ATHL Polishing Machines

Surface finishing solutions

## THE “AT” CONCEPT

The “Advanced Technology” (AT) machines mark an important step ahead for the surface finishing of stainless metals, such as steel and aluminium.

All models are characterized by a common and modular design with a high standardization of the components, engineered to increase the productivity and reliability and to simplify maintenance.

The great flexibility and easiness of configuration typical of AT’s modular concept allow these machines to be used by small as well as big service centers.

Beside to ATHL polishing machines, the range includes also the brushing machines ATR and the polishing machines ATN.

## EASINESS OF USE

Essential parameters and an innovative graphical user interface (GUI) grant an extraordinary easiness of use.

The capability of saving, recalling and interchanging the working parameters reduces even more the setup and start-up time of new lines.



The module dedicated to Hair-Line surface finishing

IMEAS **ATHL** *Hair-Liner* is an example of IMEAS care towards its own customers and also of a *market-oriented* customization.

The **ATHL** module is designed to satisfy the specific Asiatic customers’ need of a Hair Line finishing module perfectly able to integrate with the other AT series machines.

Heavy constructed, efficient and productive, **ATHL** is also easy to use and to maintain. The possibility to adjust the abrasive belt winding speed together with the pressure of the abrasive belt allow an excellent check on the finishing features.

The modular concept of **ATHL** offers a range of configurations of the production line that is free of any restraints and allows a continuous growth simply adding new modules. The best in terms of flexibility!



## General Data

### FRAMES & MATERIALS

- IMEAS uses only first choice materials from ISO 9001 certified companies.
- All frames are made of electro welded steel. They are stress relieved, sanded, prime-coated and painted.

### MOTORS

- High efficiency motors from ABB and Siemens.
- Feeding speed is controlled by AC motors and frequency controllers.
- Installed powers in accordance with the job to be performed

### CONTROL & INTERFACING

- PLC Siemens S7/300
- Easy to use graphical user interface with TFT operator panel
- ProfiBus™ connections by Siemens

### ELECTRIC CABINET

- Main switch for insulation from the main line power
- The cabinet is manufactured in disconnecting section for easy transport
- Full cooling or conditioned<sup>(3)</sup>

### PNEUMATIC PLANT

- Located on the module back side for fully accessibility
- Emergency tank
- Lockable inlet, monometer and pressure adjustment

### NOTES

1. More units can be added in order to extend the polishing line capacity, thus obtaining AT4N etc.

2. Data referred to working width of 1600 mm.

3. Some of these features may be available at extra price.

IMEAS spa reserves the right to change any data without notice.

## Data sheet & Comparison chart

MODEL <sup>(1)</sup>	ATHL	AT2HL	AT3HL
No. of working units	1 unit	2 units	3 units
Type of process	Dry or wet <i>Hair-Lining</i> available for sheets and coils		
Useful widths	1100 - 1600 - 2100 mm		
Min. length	1000 mm		
Thickness range	0,4÷4,0 mm as standard, up to 12,0 mm on request		
Feeding speed	Adjustable up to 40 m/min		
Feeding motor	One 5,5 kW motor to drive up to five ATHL modules		
Winding motor	0,5 kW/unit with frequency control		
Abrasive roll diameter	Outside: 80÷400 mm – Inner diameter: 75 mm		
Abr. roll winding speed	20÷200 mm/min @ feeding speed of 10 m/min		
Abrasive roll width	Up to 1150 - 1650 - 2150 mm (depending on width)		
Exhaust air capacity <sup>(2)</sup>	2.400 m <sup>3</sup> /h	4.800 m <sup>3</sup> /h	7.200 m <sup>3</sup> /h
Machine pass line	930 mm		
Machine weight <sup>(2)</sup>	5.500 kg	11.000 kg	16.500 kg

### STANDARD FEATURES

- Top brush at machine out feed
- Electronic and manual adjustment of the working thickness
- *Pop-up* Billy-roll
- Centralized lubrication system
- Wide screen with touch panel graphical user interface
- Integrated safety systems

### OPTIONAL FEATURES<sup>(3)</sup>

- Billy-roll with ceramic coating
- Allen-Bradley™ PLC and control systems. Other brands available on request.
- Top/bottom cleaning brush at machine out feed
- Electrical positioning of feeding rolls