

ATN 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 centres.

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

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 modular concept that innovated the surface finishing field

Since it has been introduced into the market, the polishing machine IMEAS ATN has innovated the concept of "polishing", being not only a heavy-duty, efficient and productive machine, but also easy to use and to maintain.

The underlying modular concept of ATNs allows a constrain-free configuration of the production line and a constant growth by simply adding new modules. The maximum flexibility you may expect from a leading-class product!

ATN machines are also an icon in terms of use flexibility: designed for dry polishing of stainless steel coils and sheets, this machine is used also for wet surface finishing as well as for processing plastic, acrylics and rubber. A range of applications in continuous evolution.



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⁽⁴⁾

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. As standard, the abrasive belt speed can be adjusted only on the last polishing unit.

3. Data referred to working width of 1600 mm.

4. 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 ⁽¹⁾	ATN	AT2N	AT3N
No. of working units	1 unit	2 units	3 units
Type of process	Dry or wet polishing 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 ATN modules		
Main motors	45 kW/unit as standard, 55 or 65 kW/unit on request ⁽⁴⁾		
Contact roll diameter	240 mm – Covered with rubber at 55 ShA		
Abrasive belt speed ⁽²⁾	10+25 m/s		
Abrasive belt width	Up to 1150 - 1650 - 2150 mm (depending on width)		
Abrasive belt length	2800 mm		
Exhaust air capacity ⁽³⁾	5.600 m ³ /h	11.200 m ³ /h	16.800 m ³ /h
Machine pass line	930 mm		
Machine weight ⁽³⁾	6.500 kg	13.000 kg	19.500 kg

STANDARD FEATURES

- Electronic and manual adjustment of the working thickness
- Wide screen with touch panel graphical user interface
- Long-life grease lubricated bearings
- Adjustable belt tracking photocells position for different abrasive belts widths
- *Pop-up* Billy-roll
- Integrated safety systems
- Top air cleaning knife at machine out feed

OPTIONAL FEATURES⁽⁴⁾

- Main motors upgrade to 55 kW or 65 kW
- Adjustable abrasive belt speed on all units
- 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