

ATH3200M

Maglev Turbomolecular Pump



SPECIFICALLY DESIGNED FOR PHOTOVOLTAIC APPLICATIONS

Alcatel Adixen expands its product range by introducing the ATH3200M, a high flow Maglev turbo-molecular pump offering enhanced performance in ISO F 320 flange.

The ATH3200M is designed for vacuum applications that require high pumping speed combined with high gas throughput up to 5000 sccm N₂.

The performance of this pump makes it suitable for light and harsh processes including 300 mm Semiconductor applications, Flat Panel Display, Photovoltaic, Coating, R/D, Space simulator, etc.

User Benefits

- Proven robust technology offering high MTBF in all applications.
- Compound rotor design for high pumping speed and high fore line tolerance.
- Active 5 axis magnetic bearing system offering zero contamination and low level of noise and vibration
- Special design reducing maximum transmitted torque .
- Compact pump design
- Adjustable rotational speed for optimized pumping parameters
- Integrated purge gas system and temperature management ensuring utmost resistance to process deposition.



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Applications

- PVD
- Etching
- Photovoltaic applications
- Flat Panel display
- Coating application
- Thin film deposition

Product Features

- High throughput at process pressure
- High foreline pressure tolerance
- Maintenance free magnetic bearings
- Clean, Oil free vacuum
- High resistance to air inlet
- Available in DN320 ISOF flange
- Compact ½ rack controller
- RS232/485, Lonworks compatible

Technical Specifications

Characteristics	Units	ATH3200M
Inlet flange		DN320 ISO F
Rotational speed (RPM)	rpm	25 000
Pumping speed Ar (*)	l/s	2500 l/s
Pumping speed N2 (*)	l/s	2600 l/s
Pumping speed He (*)	l/s	2400 l/s
Pumping speed H2 (*)	l/s	1800 l/s
Compression Ratio Ar		1.10 ¹⁰
Compression Ratio N2		1.10 ⁹
Compression Ratio He		1.10 ⁴
Compression Ratio H2		1.10 ³
Ultimate Pressure	Torr	10 ⁻⁸
Maximum continuous flow rate N2	sccm	5000
Maximum continuous inlet pressure	Torr	0.2
Maximum exhaust pressure	Torr	1.1
Nominal Power at ultimate pressure	Watt	100
Start Up time	minutes	<10
Pump Height	mm	351
Pump Diameter	mm	367
Pump Weight	kg	80
Cooling water flow	l/mn	>1
Power Supply		200-240V - 50/60hz - Single Phase
Maximal Power	Watt	1200

(*) with inlet screen

Alcatel Vacuum Technology France
 98, avenue de Brogny - BP 2069 - 74009 ANNECY CEDEX - FRANCE - Tel.: (33) (0) 4 50 65 77 77 - Fax: (33) (0) 4 50 65 77 89
www.adixen.com

An Alcatel-Lucent Company

China
 Alcatel Vacuum
 Technology Shanghai
 Tel: (8621) 5027 0628
 Fax: (8621) 3895 3815

France
 Alcatel Vacuum
 Technology France
 Tel: (33) 04 50 65 77 77
 Fax: (33) 04 50 65 77 89

Germany
 Alcatel Hochvakuum
 Technik GmbH
 Tel: (49) 9342 96 10 0
 Fax: (49) 9342 96 10 30

Italy
 Alcatel Vacuum
 Systems S.p.A.
 Tel: (39) 039 686 3855
 Fax: (39) 039 667 125

Japan
 Alcatel-Lucent Japan Ltd
 Tel: (81) 3 6431 7130
 Fax: (81) 45 544 0049

Korea
 Alcatel Vacuum
 Technology Korea
 Tel: (82) 31 206 6277
 Fax: (82) 31 204 6279

Netherlands
 Alcatel Vacuum
 Technology Netherlands
 Tel: (31) 345 478 400
 Fax: (31) 345 531 076

Singapore
 Alcatel-Lucent Singapore
 Tel: (65) 6254 0828
 Fax: (65) 6254 7018

Sweden
 Adixen Sensistor AB
 Tel: (46) 13 35 59 00
 Fax: (46) 13 35 59 01

Taiwan
 Alcatel-Vacuum
 Technology Taiwan
 Tel: (886) 3 5599 230
 Fax: (886) 3 5599 231

United Kingdom
 Alcatel Vacuum
 Technology (U.K.)
 Tel: (44) 1 506 418 000
 Fax: (44) 1 506 418 002

USA
 Alcatel Vacuum
 Products
 Tel: (1) 781 331 4200
 Fax: (1) 781 331 4230