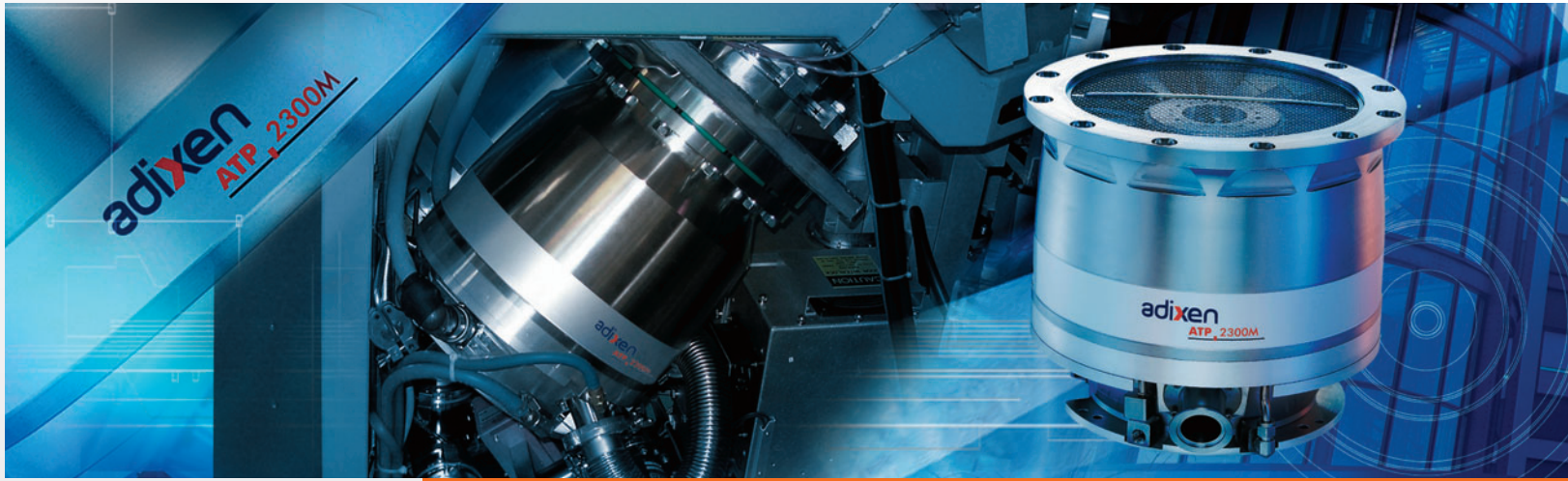


ATP 2300M

Maglev Turbo Molecular Pump



MAGLEV TURBO PUMP WITH ENHANCED PERFORMANCE

Alcatel Vacuum Technology expands its product range by introducing the ATP2300M, a high flow Maglev turbopump, offering enhanced light gas pumping.

The ATP2300M is designed for vacuum applications that require high pumping speed combined with high gas throughput, up to 3000 sccm N₂.

The performance of this pump makes it suitable for both light and harsh applications including Semiconductor Implant and HDPCVD, R/D, Coating, etc.



Customer Benefits

- Proven robust technology offering high MTBF (>7000 Maglev pumps running)
- Maximum H₂ performance offering high pumping speed and compression ratio
- 5 axis maglev suspension system offering :
 - No contamination
 - Low level of noise and vibration
 - Maintenance free
 - Installation in any orientation
- High foreline tolerance up to 1.5 mbar
- Compact pump design (height < 290 mm) driven by standard Magpower controller
- Available with embedded electronic controller
- Adjustable rotational speed for optimized pumping parameters

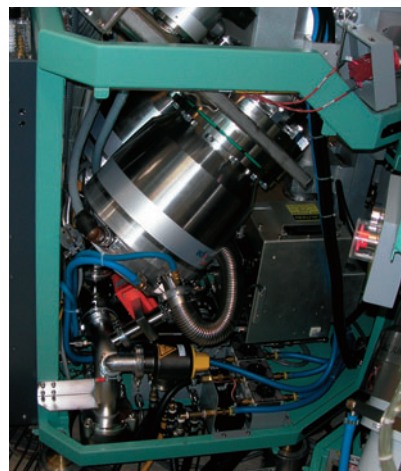
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Applications

- HDPCVD
- Ion Implanter
(source and Beam Line)
- Coating
- R/D
- Thin film Deposition

Product Features

- Maintenance Free magnetic bearings
- Clean, oil-free vacuum
- High resistance to air inrush
- Compact size and low weight
- DN200, DN250, ISO F, ISO K and CFF flange
- Compact 1/2 Rack controller
- RS232/RS485
- Profibus and DeviceNet interface available as an option



Specifications

CHARACTERISTICS	UNITS	ATP 2300M
Inlet flange		DN250, ISO F, ISO K, CFF
Rotational speed	RPM	31 000
Pumping speed Ar	l/s	1 800
Pumping speed N2	l/s	1 850
Pumping speed He	l/s	1 850
Pumping speed H2	l/s	1 750
Compression Ratio Ar		1.10 ⁸
Compression Ratio N2		1.10 ⁸
Compression Ratio He		1.10 ⁵
Compression Ratio H2		1.10 ⁴
Ultimate pressure	mbar	10-9
Maximum continuous flow rate N2	sccm	3000
Maximum continuous inlet pressure	mbar	0,05
Maximum exhaust pressure	mbar	1,5
Nominal power at ultimate pressure	Watt	150
Start up time		< 10 min
Pump height	mm	290
Pump diameter	mm	315
Pump weight	kg	50
Cooling water flow	l/h	60
Power supply		200-240V - 50/60hz - Single Phase
Maximal power	Watt	650
Vibration level	µm	0.01

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