



SEMICONDUCTOR



GENERAL  
VACUUM



ANALYTICAL  
INSTRUMENTS



R&D



PHOTOVOLTAIC



LED



CHEMICAL  
INDUSTRY



EMT

# THE POWER PACK

For ultra-high vacuum requirements  
and harshest applications



The EMT is a 5-axis magnetically levitated vacuum pump and completely hydrocarbon free. Five major types of EMT with temperature control, corrosion resistance, ultra low vibration and more are available.

## BENEFITS

- Ultra-high vacuum
- Most energy efficient temperature
- Radiation resistant
- Completely hydrocarbon free
- Installation in any orientation
- Safety standards



Models	EMT397M	EMT427M	EMT907M	EMT1307M	EMT2400M
Flange size inlet port (DN)	VG100/ISO-B100/CF100	VG150/ISO-B160/CF160	VG150/ISO-B160/CF160	VG200/ISO-B200/CF200	VG250/ISO-B250
Max pumping speed N <sub>2</sub> in l/sec	340	400	900	1,300	2400
Base pressure (VG/ISO-B flange) in Pa	< 1x10 <sup>-6</sup>	<1x10 <sup>-6</sup>	<1x10 <sup>-8</sup>	<1x10 <sup>-8</sup>	<1x10 <sup>-6</sup>
Max throughput N <sub>2</sub> in Pa l/s	3,680	3,680	5,520	5,520	5520
Max backing pressure in Pa	400	400	500	500	200
Cooling requirements	water or air cooling				
Noise emission in dB(A)	≤ 70				
Size in mm H	288-294	250-255	401-407	349-410	340
Diameter in mm	Ø186	Ø180	Ø264	Ø264	Ø310
Weight in kg	16-19	16-19	37-45	37-45	45

All data without guarantee.

## APPLICATIONS FOR EMT

- EUV lithography
- Micro-machining (MEMS)
- CD line width measurement
- SEM/TEM Electron
- Microscopy
- Nano technology
- XPS

**For further information, technical data or drawings please contact  [components@ebara-pm.eu](mailto:components@ebara-pm.eu)**

EBARA is a worldwide leading global manufacturer of vacuum and semiconductor systems used in the production of wafers, liquid crystals, solar cells and other products requiring advanced technology.

EBARA supports



EBARA Precision Machinery Europe (EPME) is part of the Japanese EBARA Group and employs approximately 150 people in Europe. The portfolio includes dry and turbo molecular vacuum pumps as well as gas abatement systems. In addition, EPME sells state-of-the-art CMP tools, wafer bevel polishing and substrate coating systems. In Europe, EPME has a central warehouse and an overhaul centre for vacuum pumps.

**EBARA Precision Machinery Europe GmbH**  
Marie-Curie-Strasse 1 • 63457 Hanau, Germany • [info@ebara-pm.eu](mailto:info@ebara-pm.eu)

