

## LIQUID RING PUMPS

- One and Two stage liquid ring pump
- Different materials of construction options
- Suction Pressure 100-33 mbar
- Pump capacities up to 5000 m3/h
- A skid mounted control panel is available
- Suitable for use in number vacuum applications like Power generation, Mining, Pharma, Waterbox



## SMALL OIL SEALED ROTARY VANE PUMPS

- One and Two stage rotary vane pump
- Ultimate pressure range
- 3 x 10<sup>-2</sup> - 3 x 10<sup>-3</sup> mbar
- Pumps capacity up to 32 m3/h
- UL and CSA approved and ATEX motor
- Suitable for use in various application like Mass Spectrometry, Freeze drying, Beam lines, Backing pump, TEM, SEM, Coatings



## EDWARDS VACUUM

As a leader of vacuum technology offers a broad range of vacuum products, solutions and complimented by vacuum technology accessories & instrumentation. Edward's ability to meet highest requirements of most complex applications gives our customers the competitive chance to succeed.

These Applications are:

- Semiconductor Processing
- R&D
- Scientific Instruments
- Heat Treatment
- Pharmaceutical
- Automotive & Airbag Leak Test
- Chemical Process Industries
- Thin Film Coating
- Metallurgy
- Industrial Coating
- Flat Panel Display
- LED
- Photovoltaic
- Lithium Ion Battery MFG
- Steel Degassing
- Petrochemical
- Power Generation
- Industrial Drying
- Transformer Drying and Cable Fluid Conditioning
- Distillation and
- Crystalization

Service We Provide:

- Spare Parts
- Pump Repair and Rebuild
- Helium Leak Detection



**Sigma Compressor Inc.**

**GOING BEYOND COMPRESSORS**



**EDWARDS**



**Sigma Compressor Inc.**

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## MEDIUM & LARGE ROTARY VANE PUMPS

- One and Two stage rotary vane pump
- Ultimate pressure range
- 0.08 - 7 x 10<sup>-3</sup> mbar
- Pumps capacity up to 840 m<sup>3</sup>/h
- UL and CSA approved and ATEX motor
- Suitable for use in various application like Coatings, Transformer drying, Refrigeration, Vacuum brazing, E-beam, vacuum metalizing, Resin degassing



## OIL VAPOUR DIFFUSION PUMPS

- HT (High Throughput) Series Diffusion Pumps, Vapour Booster Diffusion Pumps, Diffstak Vapour Diffusion Pumps
- Highest throughput up to 18000 l/s
- Ultimate vacuum pressure up to 5x10<sup>-9</sup>
- Suitable for light and heavy duty industrial applications
- like Vacuum metallurgy, Distillation, Large scale research



## TURBO MOLECULAR PUMPS

- High Compression ratio in nEXT Series, EXT Series pumps and stations, STP Magnetically Levitated Series
- Broad range pumping Speed up to 4300 l/s and ultimate vacuum pressure of 10<sup>-10</sup> mbar for nEXT400
- Different compliances like RoSH, CSA/UL and communications like RS232C and RS485 are available
- Ideal for application like PVD, MOCVD and Spudering



## HELIUM LEAK DETECTOR

- Edwards ELD500 fully automated, portable leak detector designed for fast, accurate leak detection in a wide range of applications like Airbag Mfg, Vacuum furnaces, Lamp and tube Mfg, Load locks, Nanotechnology and ....



- Available in various versions.  
WET, Turbo + Oil sealed Rotary  
DRY, Turbo + Diaphragm Pump  
FLEX, with a larger primary pump such as nXDS

## MECHANICAL BOOSTER PUMPS

(ROOTS PRINCIPLE)

- EH, pXH, Stokes and HV series
- High capacity up to 40000 l/s
- Ultimate vacuum pressure up to 1.5x10<sup>-4</sup>
- ATEX Motors
- Efficient power transmission with benefits in economy, performance and little maintenance
- Suitable for applications like Vacuum packaging, Industrial Freeze Drying



## STOKES MICROVAC SERIES

- Oil Sealed Rotary Piston Pumps
- J Series , ESI Series Oil Sealed, MV Series Vertically Oriented Microvac Booster, Stokes 1700 Series Booster Combination
- Ultimate vacuum Pressure up to 26x10<sup>-2</sup> & Ultimate displacement 6500 m<sup>3</sup>/h
- Minimal maintenance and process downtime
- Choice of pumping combinations available to provide a wide range of vacuum pumping solutions



## DRY PUMPS

- Edwards is a market leader in dry Screw pump technology in wide ranges, 1) Small Dry pumps, 2) Medium and 3) Large and Dry pumps and system solutions for Hazardous Application
- Broad Range of Pumping Speed up to 13220 m<sup>3</sup>/h and Ultimate vacuum pressure up to 2.9x10<sup>-4</sup>mbar
- They are ideally suitable for Heat Treatment, Semiconductor, Plasma Processes ....

