

**PNEUROP 50<sup>th</sup> Anniversary**

PNEUROP is the European Committee of Manufacturers of Compressors, Vacuum Pumps,  
Pneumatic Tools and Air & Condensate Treatment Equipment, represented by their National Associations

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# Pneurop

## 50<sup>th</sup> Anniversary

**6 November 2008**  
**Brussels**



About Pneurop

Our Industry

Compressors

Tools

Vacuum Technology

Pressure Equipment

Air Treatment

Process Compressors



# Vacuum technology

## PNEUROP Committee

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**Chairman: Dr. Günter Stüber**  
**Oerlikon Leybold Vacuum**  
**Secretariat: Jürgen Eisenreich**  
**VDMA**



## Activities

**Supporting International Standardisation  
(ISO)**

**Monitor relevant European legislation  
and Standardisation**

**PNEUROP recommendations**

**Discussing Industry affairs**

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## VACUUM MARKET SEGMENTATION

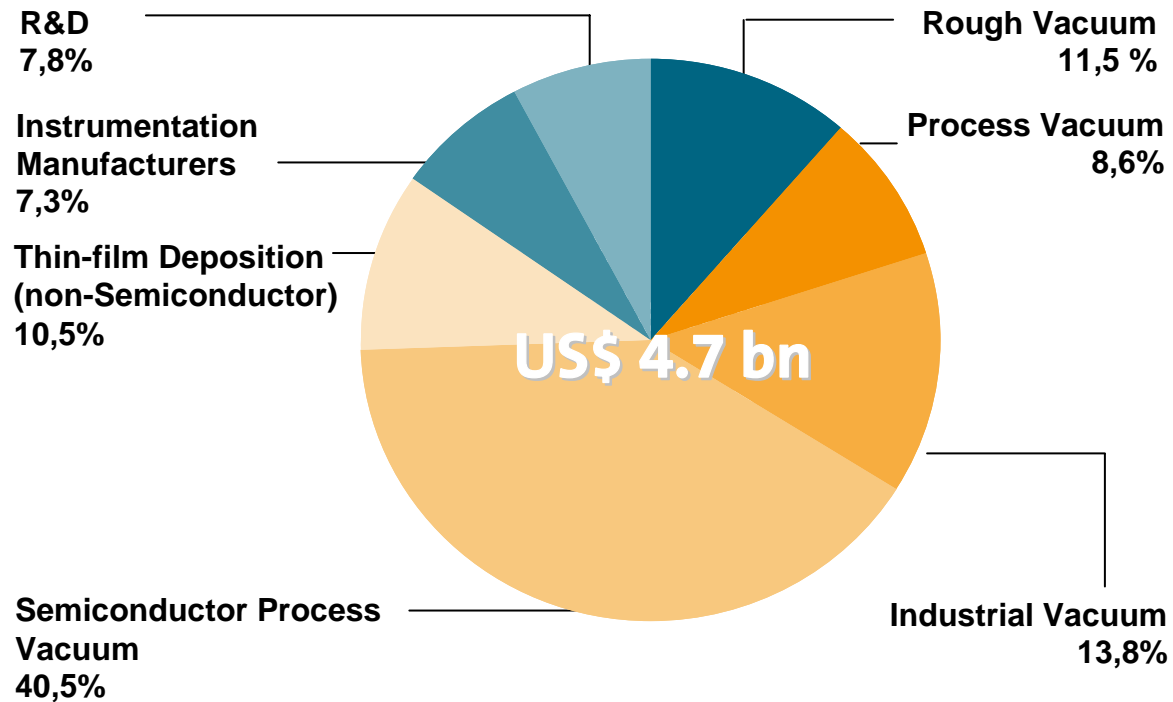
<i>Rough Vacuum</i>	<i>Process Vacuum</i>	<i>Industrial Vacuum</i>	<i>Semiconductor Process Vacuum</i>	<i>Thin-Film Deposition (non-Semiconductor)</i>	<i>Instrumentation Manufacturers</i>	<i>R &amp; D</i>
<u>Markets</u>	<u>Markets</u>	<u>Markets</u>	<u>Markets</u>	<u>Markets</u>	<u>Markets</u>	<u>Markets</u>
Packaging (except Food)	Chemical	Vacuum Metallurgy	Silicon Semiconductor	Glass/Web/Optical Coating	Mass Spectrometers	Universities
Central Vacuum	Petrochemical	Vacuum Heat Treatment	Compound Semiconductor	Data storage (CD, DVD, ..)	Electron Microscopes	Government Labs
Printing and Paper handling	Pharmaceutical	Laser Technology	TFT-LCD Displays	Thin Film Heads	Leak Detectors	Scientific Research Laboratories
Pick-up and Conveying	Plastics	Electron Tubes	MEMS	Surface Coating (wear protection, decorative, ..)	Surface Analysis	Space Simulation
Medical	Food	TV Tubes	Process Equipment	Display Coatings (OLED, FED, PDP..)	Gas Analysis	
	Beverage	Lamps and Bulbs	Manufacturers and End Users for PVD, CVD,	Solar (Photovoltaics, Thermal)	Metrology/ Inspection/ Defect Review systems for Semiconductor	
	Textile	Industrial leak detection	Etching, Ion Implantation, MBE, Crystal Pulling, etc		Focused Ion Beam systems	
	Paper	Refrigeration and Air Conditioning			Electron Beam systems	
	Ceramics	Automotive (Dehydration Charging and Test)			X-Ray Analysis	
	Freeze drying				MRI and NMR	
	Power					
<b>Typical Operating Pressure (m bar)</b>						
> 1	> 10 <sup>-2</sup>	10 <sup>-2</sup> - 10 <sup>-6</sup>	1 - 10 <sup>-8</sup>	10 <sup>-3</sup> - 10 <sup>-8</sup>	10 <sup>-6</sup> - 10 <sup>-10</sup>	10 <sup>-2</sup> - 10 <sup>-11</sup>

CD:	Compact Disk	MRI:	Magnetic Resonance Imaging
CVD:	Chemical Vapour Deposition	NMR:	Nuclear Magnetic Resonance
DVD:	Digital Video Disk	OLED:	Organic Light Emitting Diode( or OLED: Organic Electro Luminescent Display)
FED:	Field Emission Display	PDP:	Plasma Display Panel
MBE:	Molecular Beam Epitaxy	PVD:	Physical Vapour Deposition
MEMS:	Micro Electro Mechanical Systems	TFT-LCD:	Thin-Film Transistor Liquid Crystal Display

This Vacuum Market Segmentation Chart was developed by the Working Group of the International Statistics on Vacuum Technology Program, and is published with their permission. Organisations that participate in the program are the Association of Vacuum Equipment Manufacturers International (AVEM), the Japan Vacuum Industry Association (JVIA), the European Vacuum Technology Association (EVTA), and the Semiconductor Equipment and Materials International (SEMI).

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#### NEWS

2008-07-03

Pneurop celebrates its 50<sup>th</sup> anniversary as a European association.

[More]

2008-07-11

Pneurop has published several guidelines....

[More]

