ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

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Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

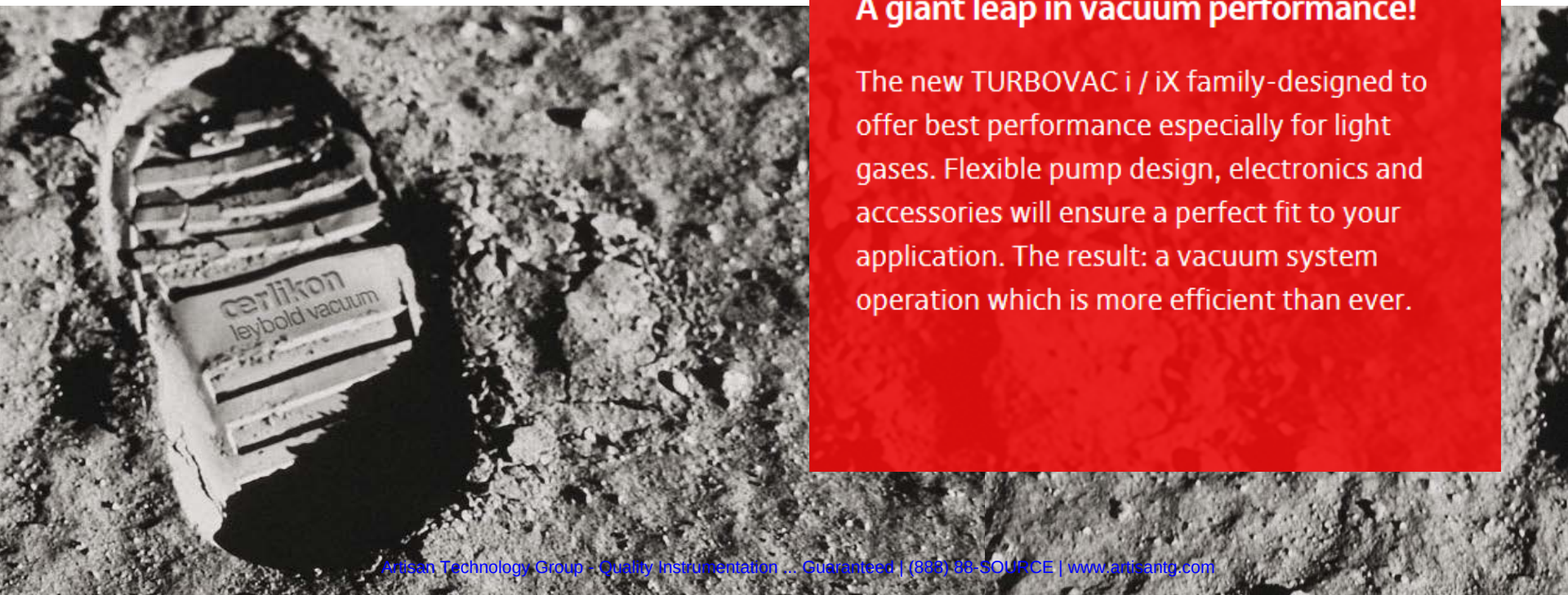
Expert team | Trust guarantee | 100% satisfaction

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Find the *Leybold TURBOVAC 450iX* at our website: ***Click HERE***

Introducing TURBOVAC i/iX

oerlikon
leybold vacuum



TURBOVAC i / iX

A giant leap in vacuum performance!

The new TURBOVAC i / iX family-designed to offer best performance especially for light gases. Flexible pump design, electronics and accessories will ensure a perfect fit to your application. The result: a vacuum system operation which is more efficient than ever.

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TURBOVAC i/iX
Discover new dimensions

oerlikon
leybold vacuum



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TURBOVAC i/iX

	…a revolution for us	…an evolution for you
Price & Performance	▪ Best-in-class pumping performance ▪ Best price/performance ratio in the market	✓ Best performance for your money
Flexible & Fast	▪ Tailor-made products for your applications ▪ Flexible service concepts ▪ Quick response time for new variants	✓ Tailor-made Turn-Key vacuum system solutions to shorten your time to market
Fit & Forget	▪ Superior reliability ▪ The only maintenance free hybrid mechanical TMP- no need for oil changes	✓ Highest productivity and system uptime at lowest CoO
Plug & Play	▪ Easiest installation, operation and control	✓ Highest comfort for installation, operation and control

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TURBOVAC i/iX
Electronics Control Options







Standard Front End TURBOVAC i	AnyBus Extension	Vacuum System Controller TURBOVAC iX	With integrated Power Supply TURBOVAC iPS/iXPS	External Front End
Cost-efficient solution for basic function & interface	Flexibility for further interface options	For extended functions and pump system control	Fully featured plug & play system controller	For flexible access to interfaces and critical installation environment

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TURBOVAC 350 i & 450 i
Product Design Flexibility

Radial Exhaust Port



Axial Exhaust Port



Direct Exhaust Port Connection/ customer specific



Optional
Inter-stage Port

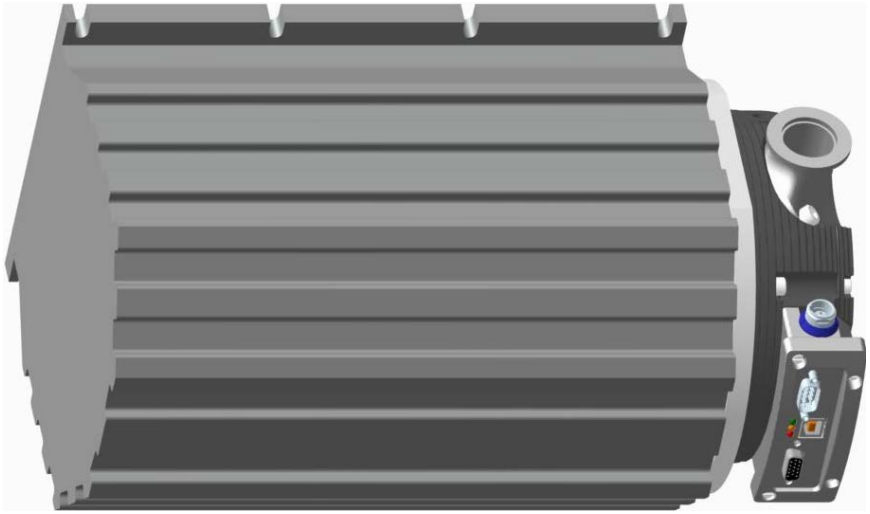
rotatable 90^{o} increments



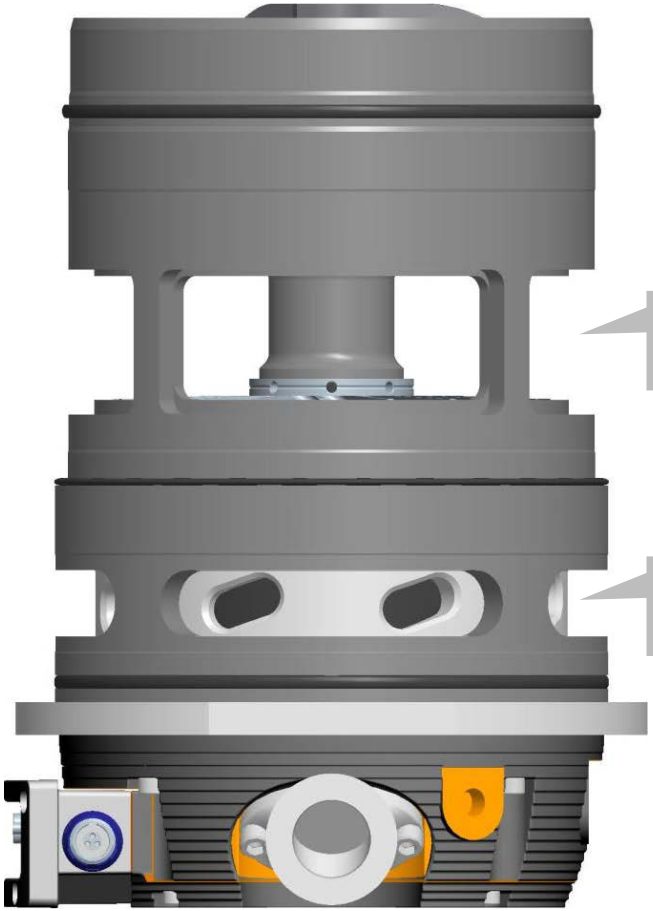
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TURBOVAC 400 i Multiple-Inlet Product Design Flexibility

- High level of flexibility available in terms of height and position of vacuum ports depending on requirements
- Tailor-made Vacuum housing are available,
  - Cartridge
  - Chamber Housing
  - Cartridge plus Chamber Housing
- Multiple inter-stage ports available (Standard configuration is 3 ports)



HV Port



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TURBOVAC 350 i & 450 i
Performance Comparison

		Competitor 1	Competitor 2	Competitor 3	TURBOVAC 350 i
Pumping speed [l/s]	N_2	260	300	250	290
	He	255	340	255	360
	H_2	220	280	220	350
Max compression	He	$1x10^8$	$3x10^6$	$1x10^8$	$1x10^8$
	H_2	$9x10^5$	$1x10^5$	$1,5x10^6$	$1x10^6$



		Competitor 2	TURBOVAC 450 i
Pumping speed [l/s]	N_2	400	430
	He	390	440
	H_2	325	420
Max compression	He	$1x10^8$	$1x10^8$
	H_2	$1x10^6$	$1x10^6$



World Class Compression

- Equivalent market leading compression.
- 100X more compression than previous generation products.

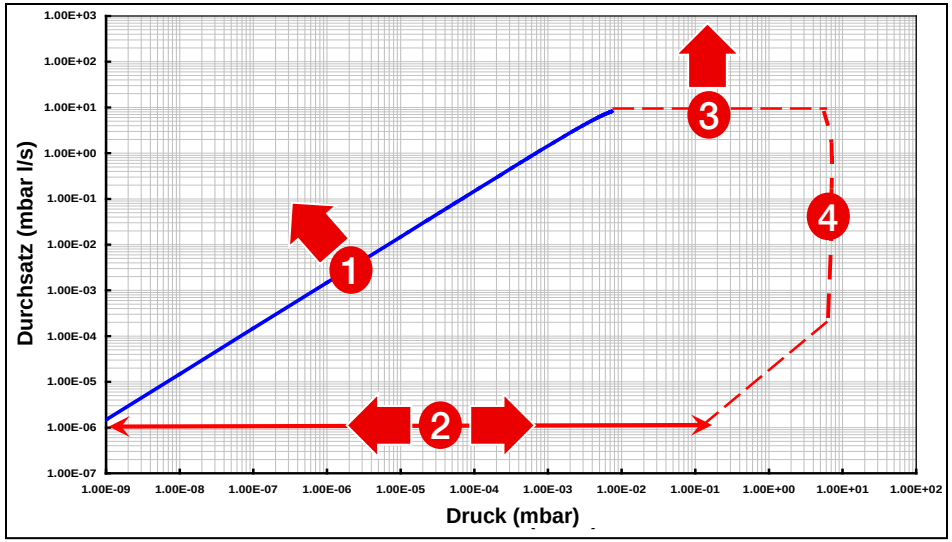
World Class Pumping Speed

- Up to 30% better than current benchmark.
- Double the light gas performance of previous generation products.

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Benefits of Extra Pumping Performance

1. **Increased Pumping Speed gives,**
   - Higher gas flows at the same chamber pressures
   - Lower chamber pressures at the same gas flows
2. **Increased Compression gives,**
   - Lower chamber pressures
   - Increased exhaust pressure without effecting inlet pressure (Only a benefit at very low gas flows)
3. **Increased Maximum Gas Flow gives,**
   - Higher maximum allowable gas flow rates
4. **Increased Backing Pressure gives,**
   - Smaller size roughing pumps possible
   - → cost and footprint reduction

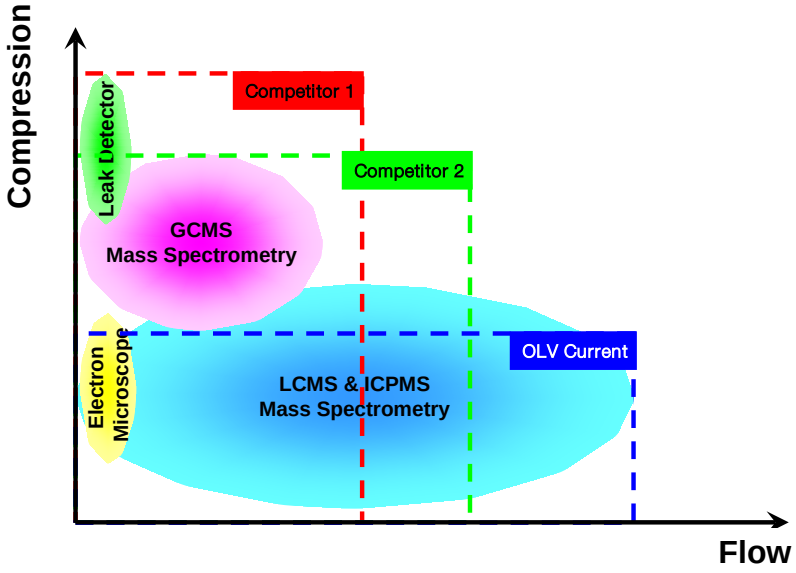


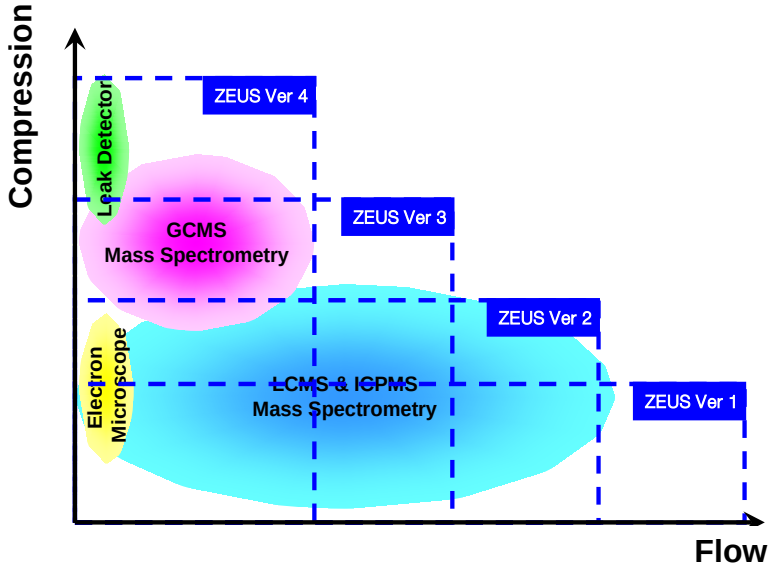


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Product Flexibility

- The pumping mechanism can be easily configured to give a wide range of pumping performance characteristics.
- The results is a tailor made performance per application.
- Benefits are lower operating temperatures and power dissipation, higher gas throughput and a more reliable product.





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Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

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