

AGENDA

- Compressor
 Technique
- 2. Innovation drivers
- 3. How do we work with innovation
- 4. Innovations
- 5. Summary

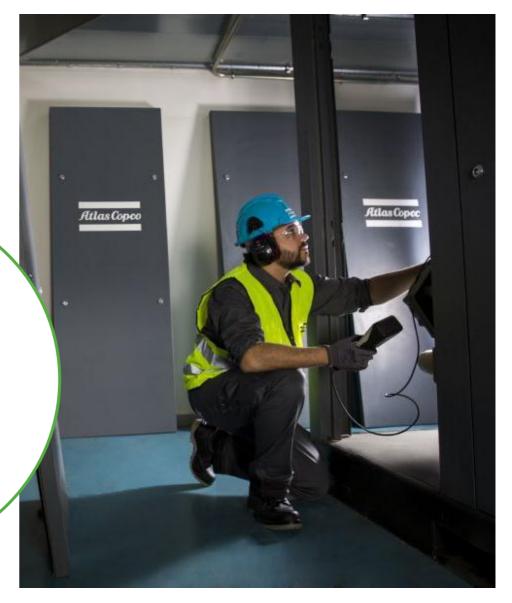




COMPRESSOR TECHNIQUE

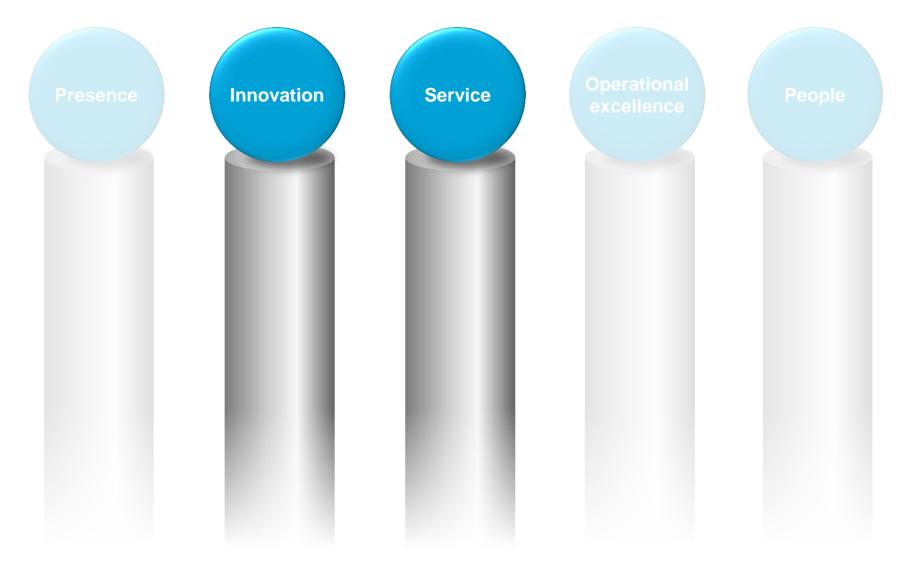
Global leader providing innovative compressed air, air and gas treatment and vacuum solutions for sustainable productivity

Profitable growth with asset light and agile organization





THE STRATEGIC PILLARS FOR PROFITABLE GROWTH





INNOVATION DRIVERS

Trends

The energy efficiency and productivity requirements from industry



Global growth and industry capital investments



Increased labor cost



Growth in emerging markets' middle segment



Environmental awareness

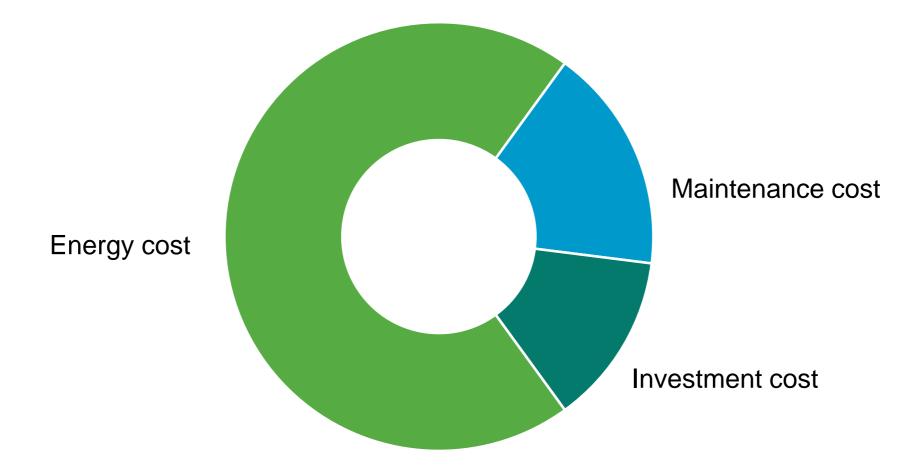


Quicker communication and availability of information



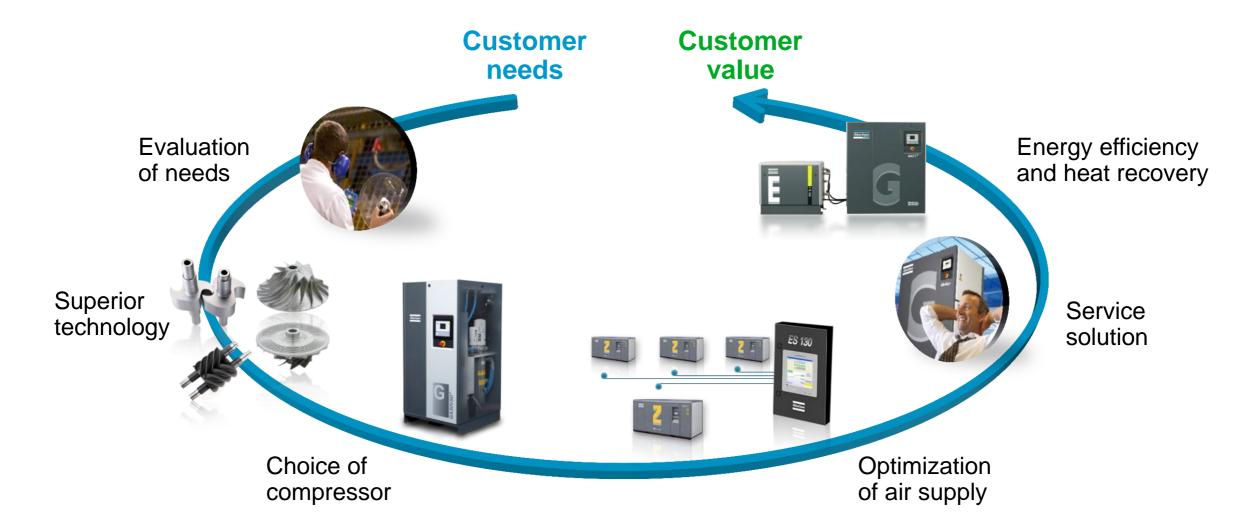


LIFE CYCLE COST COMPRESSOR / VACUUM INSTALLATION





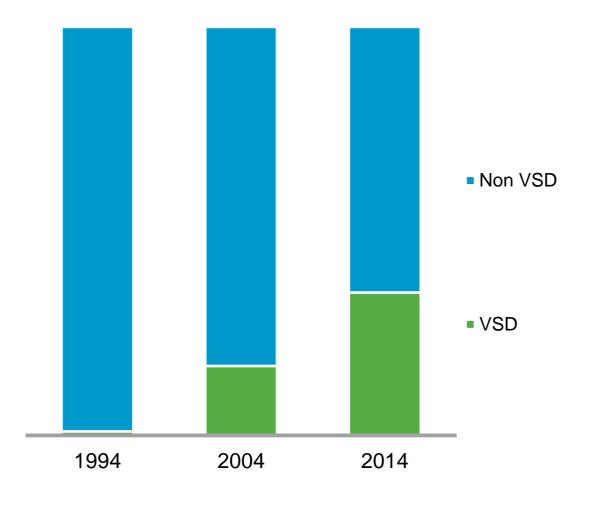
VALUE ADDING INNOVATIONS





SETTING NEW ENERGY EFFICIENCY STANDARDS

Variable Speed Drive



This
development
has led to a
significant
reduction in
energy
consumption





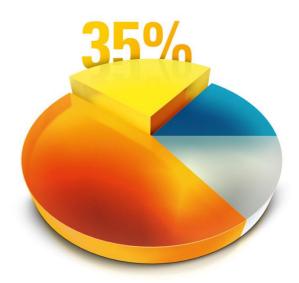
GA VSD+ - THE COMPRESSOR OF THE FUTURE



1994 – ATLAS COPCO PIONEERS THE VARIABLE SPEED DRIVE



- VSD = Energy saving of 35% on average
- Revelation in energy savings, total cost of ownership
- 1 in 3 oil-injected screw compressors sold by Atlas Copco is a variable speed drive





GA VSD+

Unique drive system

Integrated optimized solution

Easy service

Footprint -55%

Free air delivery: +13%

Low noise level: 62 d(B)A Specific energy requirement: -50%









SMALL COMPRESSORS, BIG ACHIEVEMENTS

What if every oil-injected screw compressor sold in the world would be a VSD+?

- Average annual savings of 6 TWh
- Reduction of 3 million tons of CO₂
- Equivalent to 600 000 cars



ZH350+ TURBO DIRECT DRIVE



ZH350+ TURBO DIRECT DRIVE





No gears

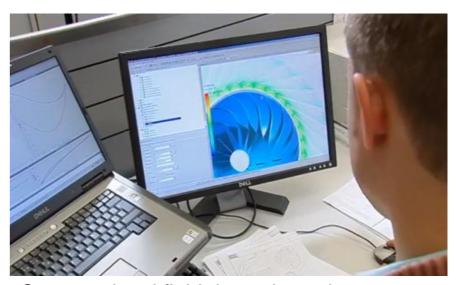
 Atlas Copco designed direct drive high speed synchronous motor with frictionless magnetic bearings

No oil

Not a single drop of oil inside

No losses

 ZH350+ the most energy efficient oil-free air compressor ever



Computational fluid dynamics to increase energy efficiency by 6% and more



IXM DRY PUMP FOR SEMICONDUCTOR MARKET

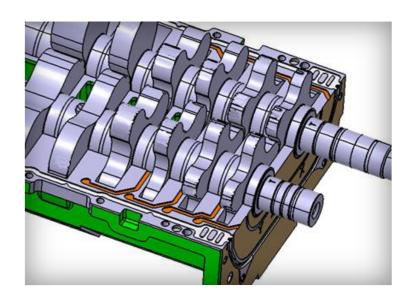


IXM DRY PUMP





- 60% less power consumption than previous generation of dry pumps
- Increased lifespan
- 20% smaller footprint
- 2x lower noise than previous generation
- 30% lower weight than previous generation





GHS VSD+ VACUUM PUMPS



GHS VSD+ VACUUM PUMPS

- Atlas Copco state of the art oil injected screw elements
 - Breakthrough efficient variable speed driven vacuum pumps
- Superior alternative to the traditional oil injected vane pumps:
 - Reduction in energy consumption on average 50%
 - Silent technology, best in class noise levels
 - Clean operation: insignificant oil emissions
 - Compact all in one package with advanced controls
- Game changer in the utility vacuum segment
- Patented designs





SMARTLINK COMPRESSOR DATA MONITORING SERVICES

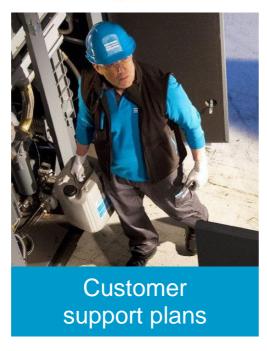


A COMPLETE LIFECYCLE OFFERING













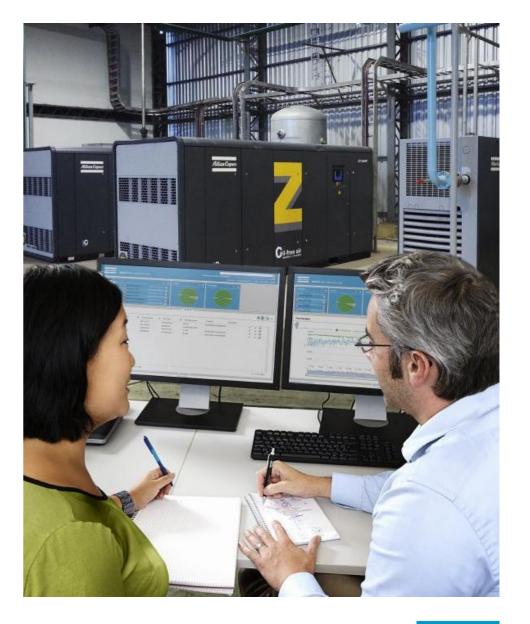




SMARTLINK

- Connectivity as strategic differentiator
 - Monitoring running parameters
 - Investing in data → knowledge
 - Connectivity enables lower total cost of ownership







SMARTLINK

Operational Efficiency

- Service visits planned on actual running hours
- Pro-active service response towards customers



Customer Benefits

- Service on time
- SMS/E-mail warnings
- Energy consumption analysis



Maximum Productivity

Minimum Operating Cost

Product Development

 Running conditions and machine behavior identifies areas for product improvement





SUMMARY

Innovation is the key differentiator for market leading position

The organization is strong and "fit for more"

Innovation not only in products





COMMITTED TO SUSTAINABLE PRODUCTIVITY.



Atlas Copco