



JSC "DALENERGOMASH"

Advanced technology!
High-efficiency solution!
Complete delivery!

New line of **"Avangard"**
turbocompressors.





Basic view

Efficiently packaged and compact design

- Low noise and safe operation
- Simplified connections to all systems
- Simple installation, no additional foundation work
- Low maintenance costs
- Minimal floor space



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Basic view



Functional and efficient control system

Efficiently packaged and compact design

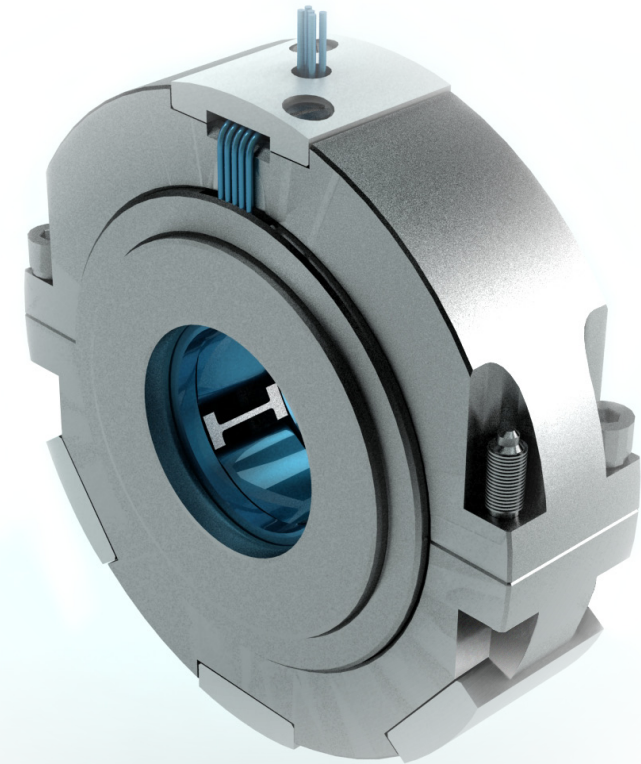
Improved design of turbocompressor

Efficient air inter & aftercoolers

Simple and easy maintenance



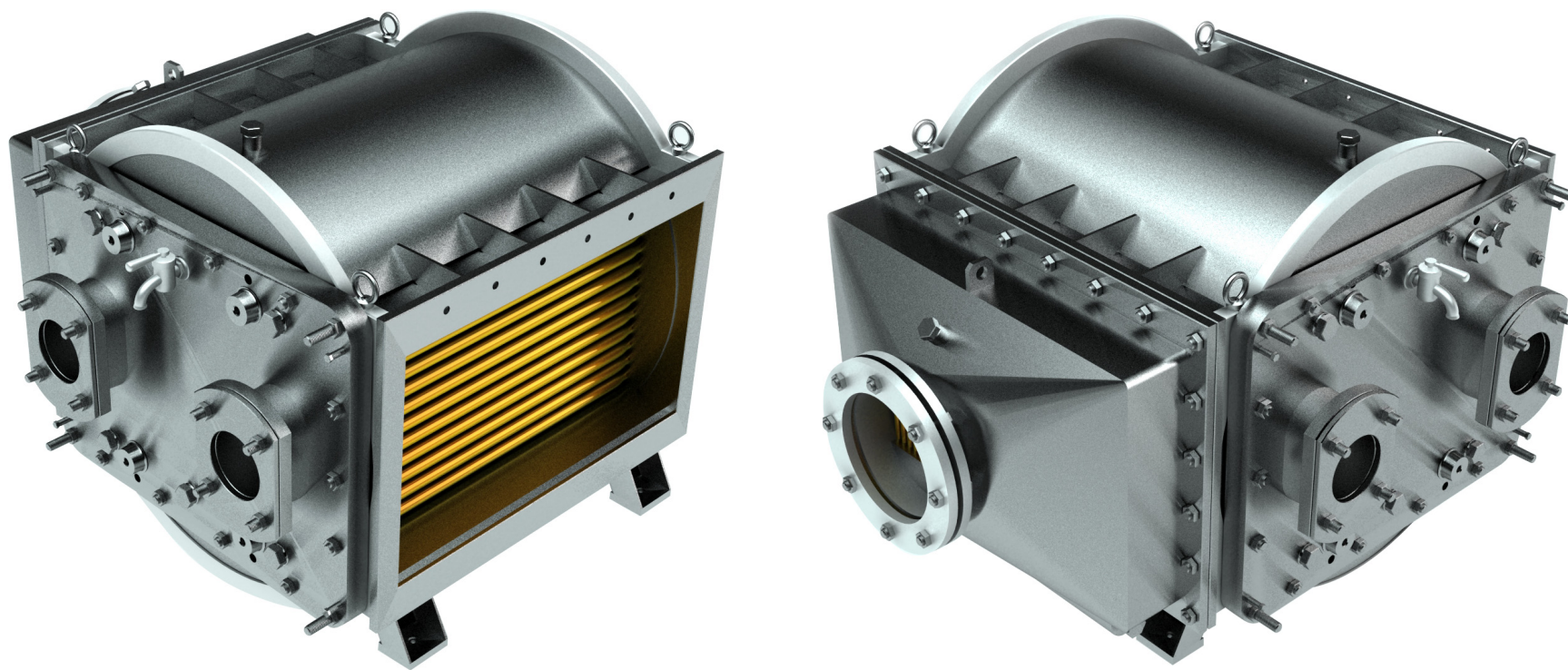
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Improved design of turbocharger

- Precision cast impellers for high efficiency
- New sleeve bearings provided with metal and fluoroplastic strip
- High-precision gears
- 100% oil-free air due to efficient air seals

- Widest range of capacity regulation and control due to inlet variable guide vanes (IVGV) mounted before each of the four stages of turbocharger
- Specific solutions allowing to minimize vibration
- Anti-reverse rotation system



Efficient air inter & aftercoolers

- Copper ribbed pipes for efficient heat exchange and excellent corrosion protection
- Minimum losses of air pressure
- Easy installation and maintenance of tube banks



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New Technology



Functional and efficient control system

- Improved surge anticipation process control logic
- Control power protection system
- Automatic monitoring and modulation mode
- LCD touch screen

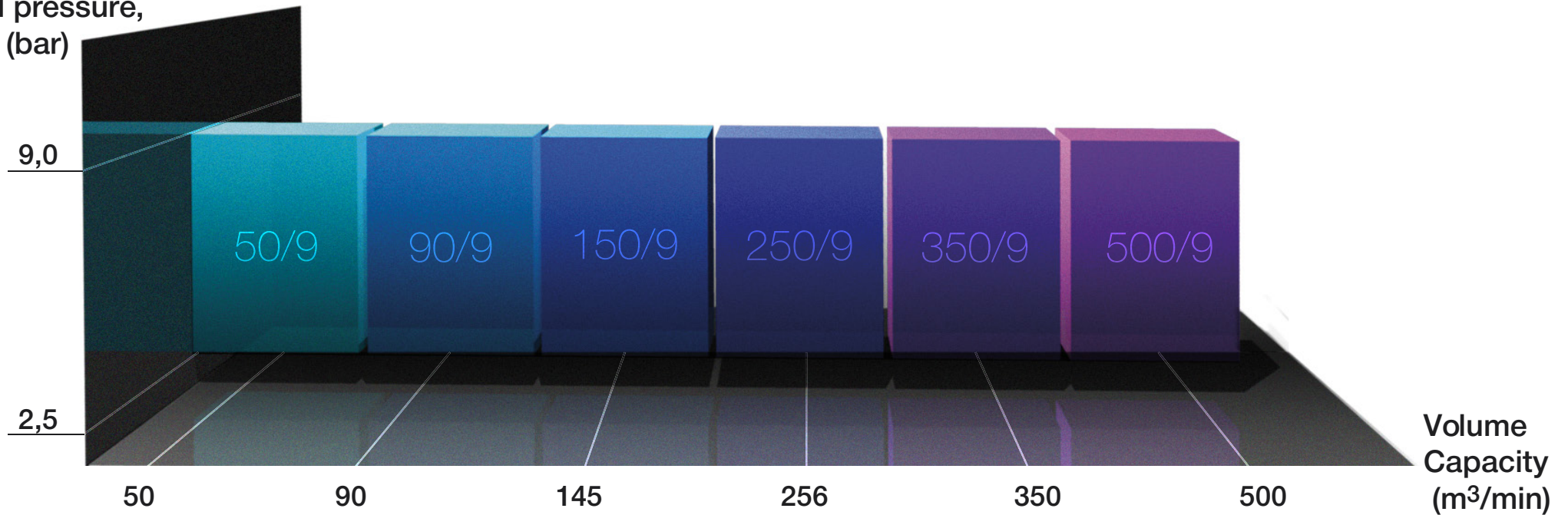
- Simple monitoring of the turbocompressor state
- Web integration capable



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Final pressure,
abs. (bar)



		Avangard 50/9	Avangard 90/9	Avangard 150/9	Avangard 250/9	Avangard 350/9	Avangard 500/9
Volume capacity	m ³ /min	50	90	145	256	350	500
Final pressure, abs.	bar	9					
Power required	kW	370	500	754	1450	2000	2900
Isotermic efficiency factor		0,66			0,68		
Power of electric motor	kW	400	630	1000	1600	2500	3150