COMPRESSOR SYSTEMS
MADE IN GERMANY

ALMiG
Compressor Systems

DYNAMIC 185-250

OIL-FREE CENTRIFUGAL COMPRESSORS

TURBO COMPRESSORS DYNAMIC 185-250

A winner in the life cycle cost comparison

The DYNAMIC series combines decades of experience and enthusiasm for compressed air technology in an extremely reliable and energy-efficient series.

The turbo compressors of the DYNAMIC 185-250 series are suitable for a wide range of applications where 100% oil-free compressed air is required in larger quantities - from 185 kW to 250 kW drive power at a final compression pressure of up to 8.6 bar.

The simple and compact design of the compressor unit offers high reliability and ensures safe operation even under demanding conditions. The titanium impellers are designed for optimum efficiency and a long service life.

The DYNAMIC compressors are easy to install, operate and maintain and have a compact footprint.

The turbo compressors of the DYNAMIC series replace oil-free screw compressor as a base load machine and impress with lower total cost of ownership.

Advantages:

- 100 % oil-free compressed air
- Titanium impellers designed for optimum efficiency and reliability
- Lowest total cost of ownership
- Fully enclosed with sound insulation housing

Energy efficient

Wear-free Titanium impeller, IE4 motor and modern control system for minimum energy consumption.

Oil-free

The system supplies 100% oil-free compressed air of class 0 (according to ISO 8573) confirmed by TÜV Rheinland.

Quick & easy maintenance

Optimised design with wear-free compression principle offers low maintenance and few downtimes.

Application
Industry

Power output
185 - 250 kW

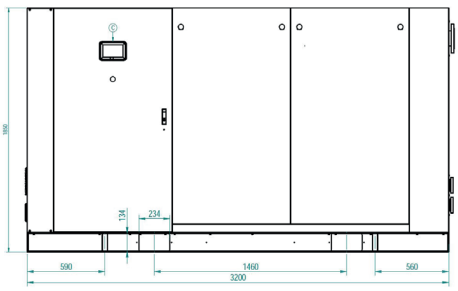
Volume flow according to ISO 1217 (Annex C-2009)
35.1 - 43.6 m³/min

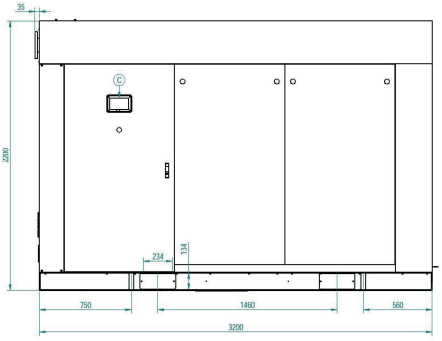
Operating pressure
6.2 - 8.6 bar

Cooling
Water-cooled
Air-cooled

Drive
Gear

DYNAMIC	Operating overpressure	Volume flow at max. operating pressure	Rated motor power	Dimensions (L x W x H)
Model	bar	m³/min	kW	mm
50 Hz - Water cooling				
250-8.6	8.6	41.6	250	3200 x 1850 x1850
220-6.9	6.9	43.6	220	
200-8.6	8.6	35.3	200	
185-6.9	6.9	35.1	185	
50 Hz - Air cooling				
250-7.9	7.9	41.4	250	3200 x 2000 x 2200
220-6.9	6.9	42.8	220	
200-7.9	7.9	35.4	200	
185-6.2	6.2	35.1	185	





oil-free

Inlet and relief valve

Efficient water cooling
Also available with air cooling

100% oil-free compressed air
certified according to ISO 8573 class 0

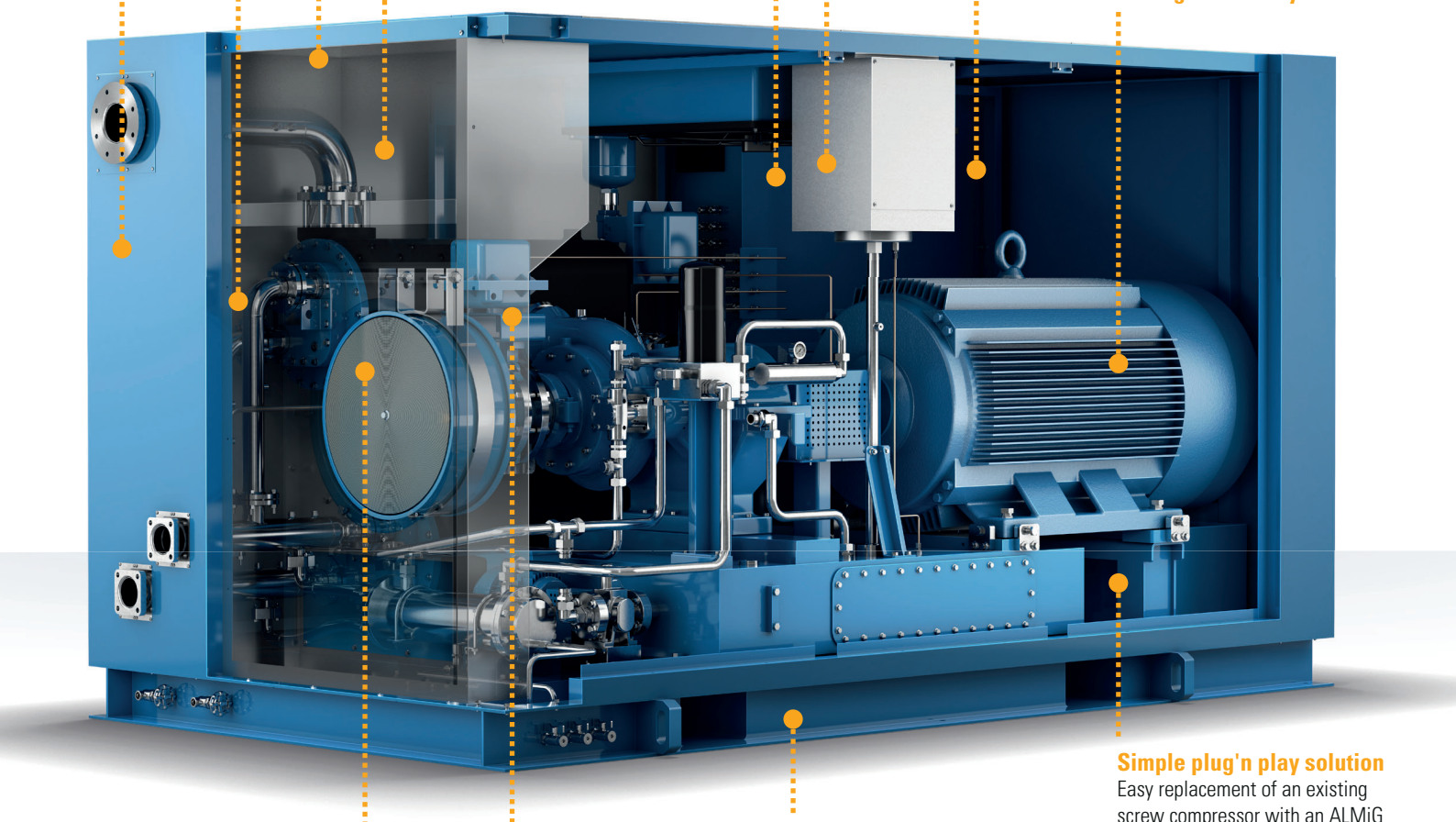
Highly efficient coolers
provide excellent heat exchange performance

Optimised enclosure design
The separate cooling air flow is designed for the control cabinet to ensure that all components operate under optimal conditions

Energy efficient control
3 control modes to optimise energy costs of compressor operation for different conditions, IoT connectivity enabled

Fully enclosed with sound insulation housing
Low noise level (75 dB(A))

IE4 High Efficiency Motor



Integrated intake filter

Oil mist separator
Integrated into the housing to ensure that the oil mist does not contaminate the surroundings or the compressor

Small footprint

Simple plug'n play solution
Easy replacement of an existing screw compressor with an ALMiG DYNAMIC turbo compressor

+ Clean, oil-free compressed air according to ISO 8573-1 Class 0
+ Wear-free impeller
+ PLC-based control systems
+ Easy to maintain
+ Low life cycle costs

Equipment

Features and advantages

- The DYNAMIC turbo compressors are among the most efficient compressors on the market
- 100% oil-free compressed air according to ISO 8573
- 2-stage compression
- Above-average service life
- Low maintenance costs
- Low-wear hydrodynamic multi-segment plain bearing
- Permanently high and consistent performance
- Wear-free impeller
- On-site maintenance possible due to horizontally split gearbox housing
- IE4 Motor

Standard equipment

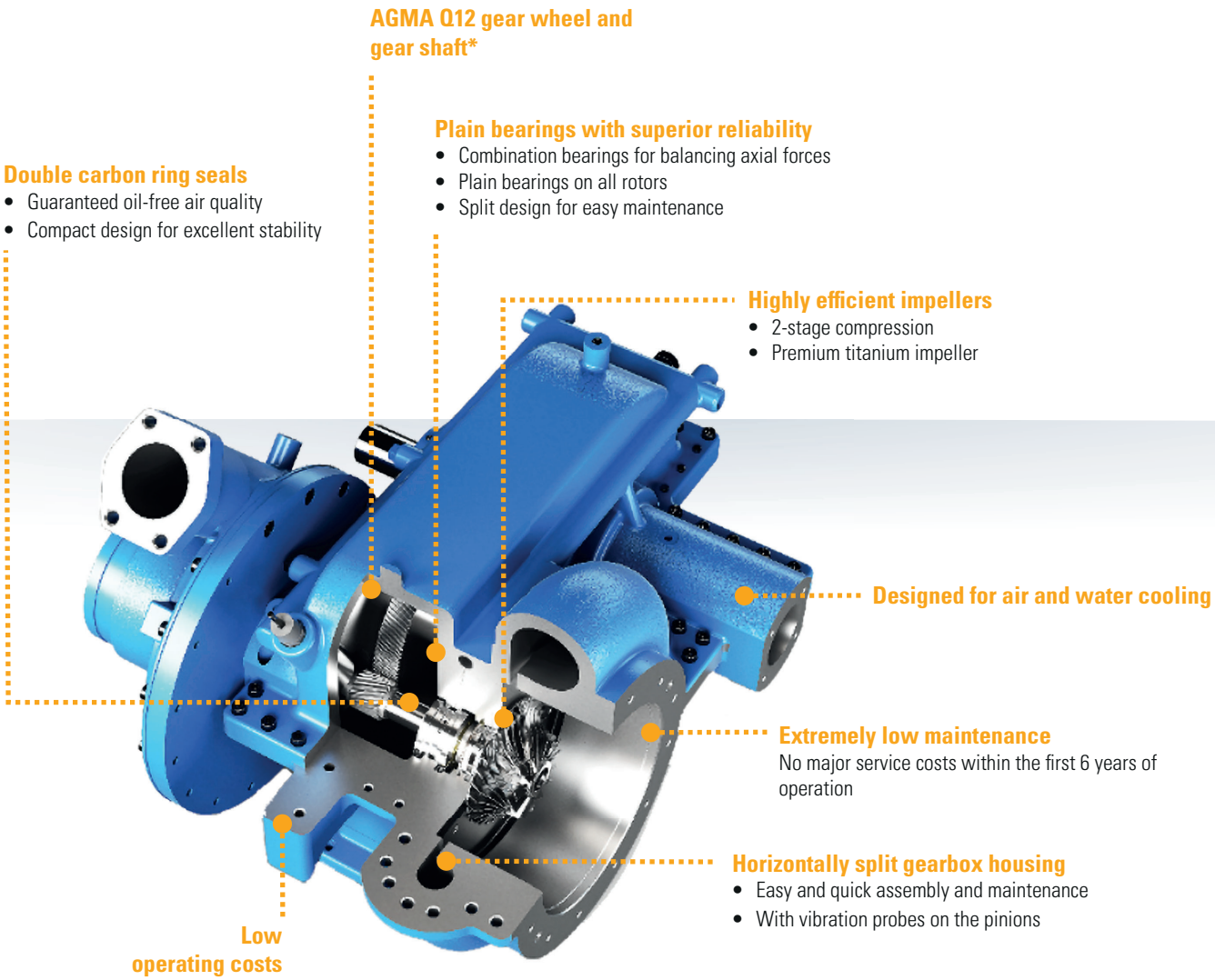
- Modern premium control
- Cooling water connection
- Integrated aftercooler
- Sound insulation bonnet

Options

- Filter monitoring
- IoT-capable control
- Higher-level control
- HOC solution with dryer
- Vibration monitoring
- Drive power monitoring

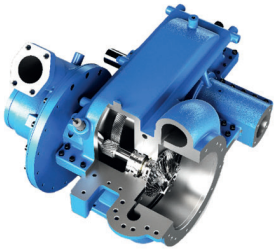
On request, turnkey compressor stations and special plants are possible.

DYNAMIC 185-250 Compressor airend



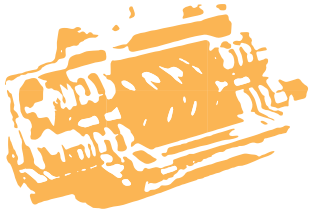
*American Quality Gear Manufacturing Standards

Comparison DYNAMIC vs. dry-running screw and oil-lubricated screw

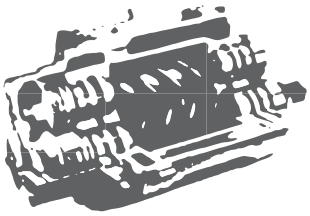


DYNAMIC (Oil-free)

VS



Dry-running screw (oil-free)



Oil lubricated screw

	Total life cycle costs		
Wear-free (titanium)	**Wear rotor**	Wearing rotors	Wearing rotors
Minimal operating costs through maximum efficiency	**Total operating costs**	Approx. ~12% higher operating costs in 5 years	Approx. ~12% higher operating costs in 5 years
Less than 80 h	**Planned Downtime**	Up to 360 h	Up to 360 h
Not necessary	**Costs - Exchange Compressor stage**	Necessary ~ 5 years	Necessary ~ 5 years
Not necessary	**Compressed air treatment by oil separation**	Not necessary	Treatment necessary

The direct comparison shows that with DYNAMIC from ALMiG, there are significantly lower costs over the life of the compressor compared to a dry-running or an oil-lubricated screw.

Service - Anytime. Worldwide.

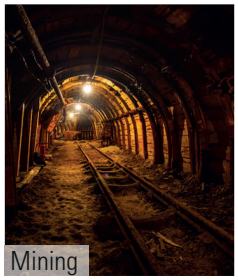
High-quality products from ALMiG deserve first-class service.

We offer you the complete service programme: comprehensive advice, ensuring availability, increasing economic efficiency and exploiting energy-saving potential. Reliability, fast response times and competent advice are our top priorities. We offer a nationwide network of highly qualified ALMiG service technicians and specially trained and authorised service partners. In this way, we ensure the operational reliability of your compressed air station at all times, both at home and abroad.

- Consulting, planning and installation
- Measurements of compressed air consumption and quality
- Maintenance contracts
- Original spare parts
- Further training, including energy-saving and compressed air seminars

24h Reachability around the clock:
Service hotline: +49 180 52587 00

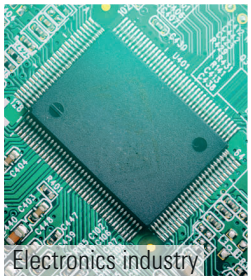
Areas of application


Mining

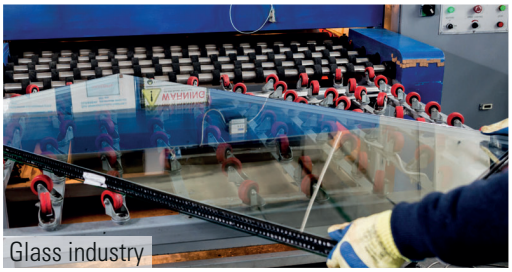

Food industry


Textile industry


Large-scale industry


Electronics industry

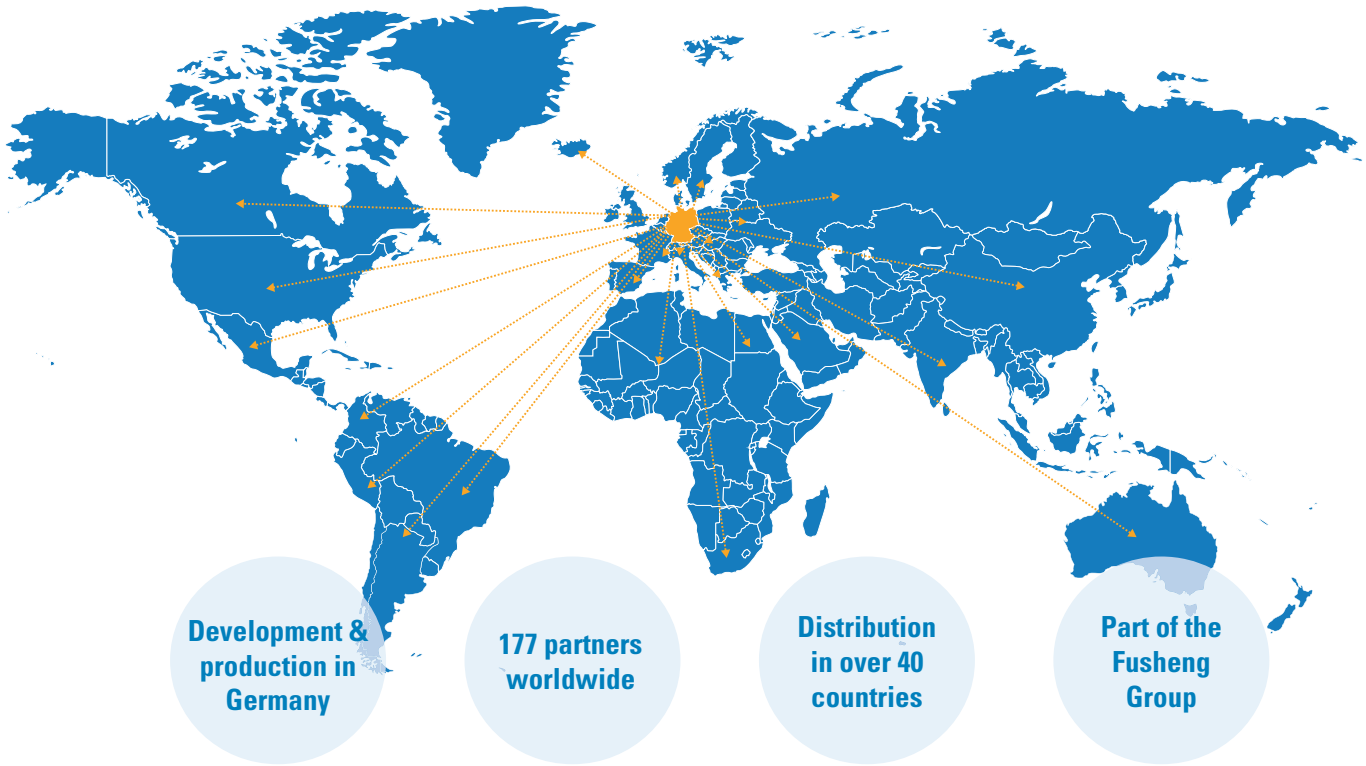

Pharmacy


Glass industry


Automotive


Beverage industry

We are close to our customers - worldwide



ALMiG Kompressoren GmbH • Adolf-Ehmann-Str. 2 • 73257 Köngen • Germany • info@almig.de • Tel.: +49 7024 9614-0 • www.almig.com