

COMPACT AIR SOLUTIONS

FOR TRANSPORT INDUSTRY



INNOVATION

QUALITY

RELIABILITY

WORLDWIDE

EVO®-NK – SCREW COMPACT UNITS

UNIQUE AND RELIABLE

Our unique EVO®-NK compact units are oil-injected screw compressor modules that integrate the main parts of a compressor system. This solution is the best possible way to build a reliable, compact, and mobile complete compressor

package, built to the highest quality standards for the toughest working conditions and safety regulations of railway and other applications in the transport industry.



Power range: 2.2 – 75 kW
 Volume flow: up to 11.5 m³/min
 Pressure range: 5 – 15 barg

All EVO®-NK Compact Units are also available with gear



WHY USE EVO®-NK COMPACT UNITS?

- › High operational reliability – designed for industrial applications and continuous operation
- › Includes all advantages of our built-in EVO® technology
- › Each compact unit is tested as a complete system before leaving our factory
- › No leakages due to reduced piping and connections as well as sealing with O-rings (Viton®)
- › Optimized compact design with very low space requirements
- › Simplified service and maintenance as all components are easily accessible from one side without special tools
- › Reduced engineering, manufacturing and logistic costs for your compressor package compared to conventional compressor systems with an air end and separate components
- › Low noise and low vibration

INTEGRATED COMPONENTS INCLUDE

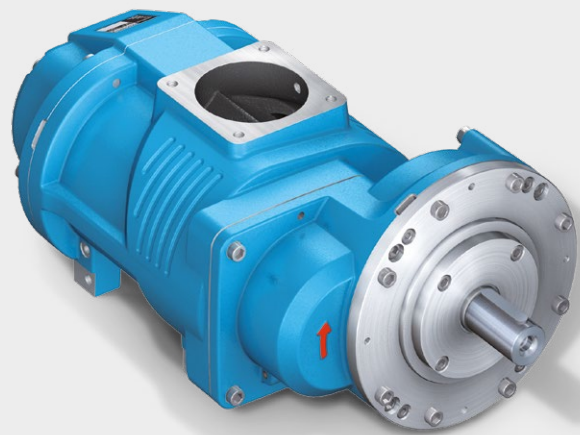
- EVO® oil injected air end with ROLLING PROFILE®
- › Intake valve with control unit and air filter
- › Oil reservoir and oil separation system with coalescing cartridge(s)
- › Oil filter and oil thermo valve
- › Minimum pressure and non return valve
- › Various options available such as safety valve, oil level sight glass, maintenance indicators

EVO® – SCREW AIR ENDS

RELIABLE AND VERSATILE

Our oil-injected screw air ends create the heart of your compressor system. Used with our wide range of components, you can build your customized compressor package with ultimate efficiency, low noise, at the highest quality

standard for tough working conditions and safety regulations of railway and other applications in the transport industry.



Power range: 2.2 – 670 kW
 Volume flow: up to 105 m³/min
 Pressure range: 5 – 15 barg

All EVO® Air Ends are also available with gear

ADVANTAGES OF OUR EVO® TECHNOLOGY

- › New ROLLING PROFILE® – ultimate efficiency with reduced noise
- › Long life cycle due to generous bearing dimensions and wear-free ROLLING PROFILE®
- › Wide operating pressure range from 5 to 15 barg
- › High quality manufacturing and assembling – “Made in Germany”
- › Quality assurance – bench test of every air end before leaving our factory
- › Easy application selection with our new ROTORCOMP® SIZING AIR software
- › Highest flexibility for your package design
 - Suitable for all types of drive motors
 - Drive options: Belt drive, direct drive, internal gear drive
 - Base and face-flange mounting

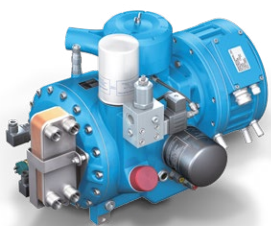
ULTIMATE EFFICIENCY AND REDUCED NOISE THROUGH

- › High volumetric output due to
 - Reduced internal leakage
 - Thermally optimized oil injection system
 - Improved suction port efficiency giving reduced internal losses
- › Low power consumption due to
 - Optimized torque characteristics and reduced internal friction
 - Improved outlet port with lower pressure losses
- › Reduced noise and low vibration due to
 - Smooth rolling of the rotors with new ROLLING PROFILE®
 - Optimized outlet port



FOR ELECTRIC OR HYBRID BUSES, OMNIBUSES, TRAMS AND TRUCKS

Best solutions:
EVO1-NK; EVO2-NK; NK31



Power range:
2.2 – 11 kW
Volume flow at 10
bar(g): up to 1.2 m³/min



FOR UNDERGROUND AND CITY TRAINS

Best solutions:
NK31; EVO3-NK



Power range:
3.0 – 18,5 kW
Volume flow at 10
bar(g): up to 2.1 m³/min



FOR PASSENGER TRAINS

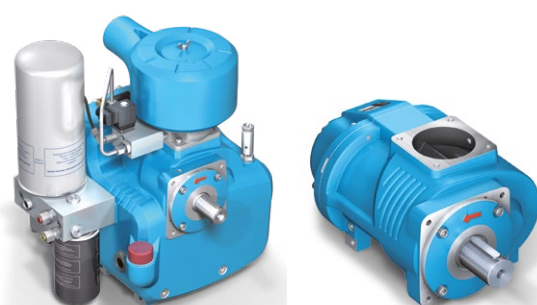
FOR FREIGHT TRAINS

Best solutions:
EVO3-NK; EVO6-NK

Best solutions:
EVO6-NK; EVO9-NK; EVO15



Power range:
7.5 - 37 kW
Volume flow at 10
bar(g): up to 4.4 m³/min



Power range:
22 - 90 kW
Volume flow at 10
bar(g): up to 12 m³/min



FOR SERVICE RAIL VEHICLES AND SHUNTING LOCOMOTIVES

Best solutions:
EVO3-NK; EVO6-NK;
EVO9-NK; EVO15



Power range:
7.5 – 90 kW
Volume flow at 10
bar(g): up to 12 m³/min



FOR STATIONARY AND MOBILE COMPRESSORS

EVO-Series and EVO-NK-Series completely;
special solutions for middle pressure up to
40 bar possible



Power range:
2.2 – 670 kW
Working pressure:
5-15 barg; 24-40 barg
Volume flow:
up to 105 m³/min

CUSTOMERS' PACKAGE EXAMPLES



Metro brake compressor Air End EVO3-NK



Cargo Train brake compressor Air End NK100-G



City train brake compressor Air End NK31

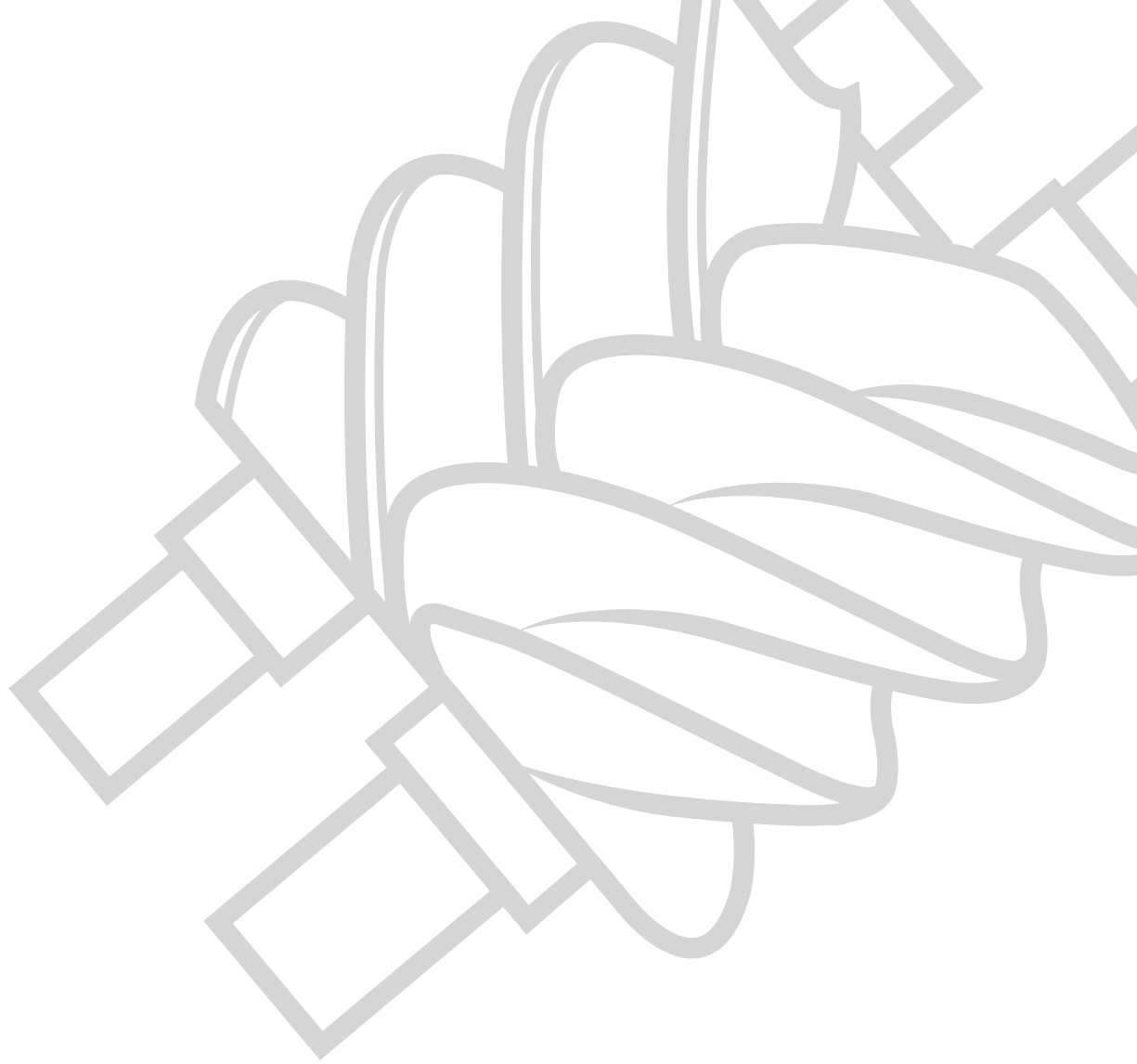


Freight train brake compressor Oil free piston block D17.3

OUR COMPANY



ROTORCOMP is one of the largest suppliers of oil injected air and gas ends and compact units to the world market. Concentrating on our core competence, the research, design, production and sales of oil injected screw compressors, we provide our products exclusive to OEM customers, packaging air or gas compressors. Embedded to the independent and privately held BAUER GROUP, we are a strong, loyal and faithful partner with customers in more than 60 countries all over the world. We guarantee world class product quality and reliability with our highly sophisticated factory, seated close to Munich in the south of Germany.



INTERESTED IN ONE OF OUR PRODUCTS?

CONTACT US – WE ARE HAPPY TO PROVIDE
INFORMATION AND ASSISTANCE.

ROTORCOMP VERDICHTER GmbH

Industriestraße 9
82110 Germering | Germany
Tel.: +49 (0)89 72409-0
Fax: +49 (0)89 72409-38
info@rotorcomp.de
www.rotorcomp.de



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Subject to change without notice