

North and South America

3101 Broadway
PO Box 209
Buffalo, NY 14225-0209
USA
Tel 1 716 896 6600

11323 Tanner Road
Houston, TX 77041
USA
Tel 1 281 809 1300

Rua de Assembleia, 98-19° andar
Rio de Janeiro
20011-000, RJ
Brazil
Tel 55 21 2172 9650

**Europe, Africa, Caspian
and Russia**

Via Cantú 8/10
20092 Cinisello Balsamo (MI)
Milan, Italy
Tel 39 02 6129 2010

9 Trekhpudny Lane, Bldg 2
5th Floor
123001
Moscow, Russia
Tel 7 495 225 1818

Asia Pacific and Middle East

Building A-2, Himile Industrial Zone
No. 5655 Kangcheng Road
Gaomi, Shandong 261500
China
Tel 86 536 221 4100

Tower A, Room 1705-1707
Chengjian Dasha
#18 Beitaipingzhuang
Haidian District, Beijing 100088
China
Tel 86 10 8225 5700

Floor 23, Intercontinental Center
No. 100 YuTong Road
Zhabei District, Shanghai 200070
China
Tel 86 021 6106 0300

No. 2 Gul Circle
Jurong Industrial Est.
Singapore 629560
Republic of Singapore
Tel 65 6494 7600

Room 411, Royal Palace, Suite 85
Susong-dong, Chongno-ku
Seoul 110-885
Republic of Korea
Tel 82 3210 1436

Survey No. 255/1/8
Hinjewadi, Pune-411057
Maharashtra, India
Tel 91 20 6792 9100

Level 9, Al Jazira Club Tower A,
Muroor Road
PO Box 47280
Abu Dhabi, United Arab Emirates
Tel 971 2 596 8400

Learn more about Cameron at:
www.c-a-m.com/cs

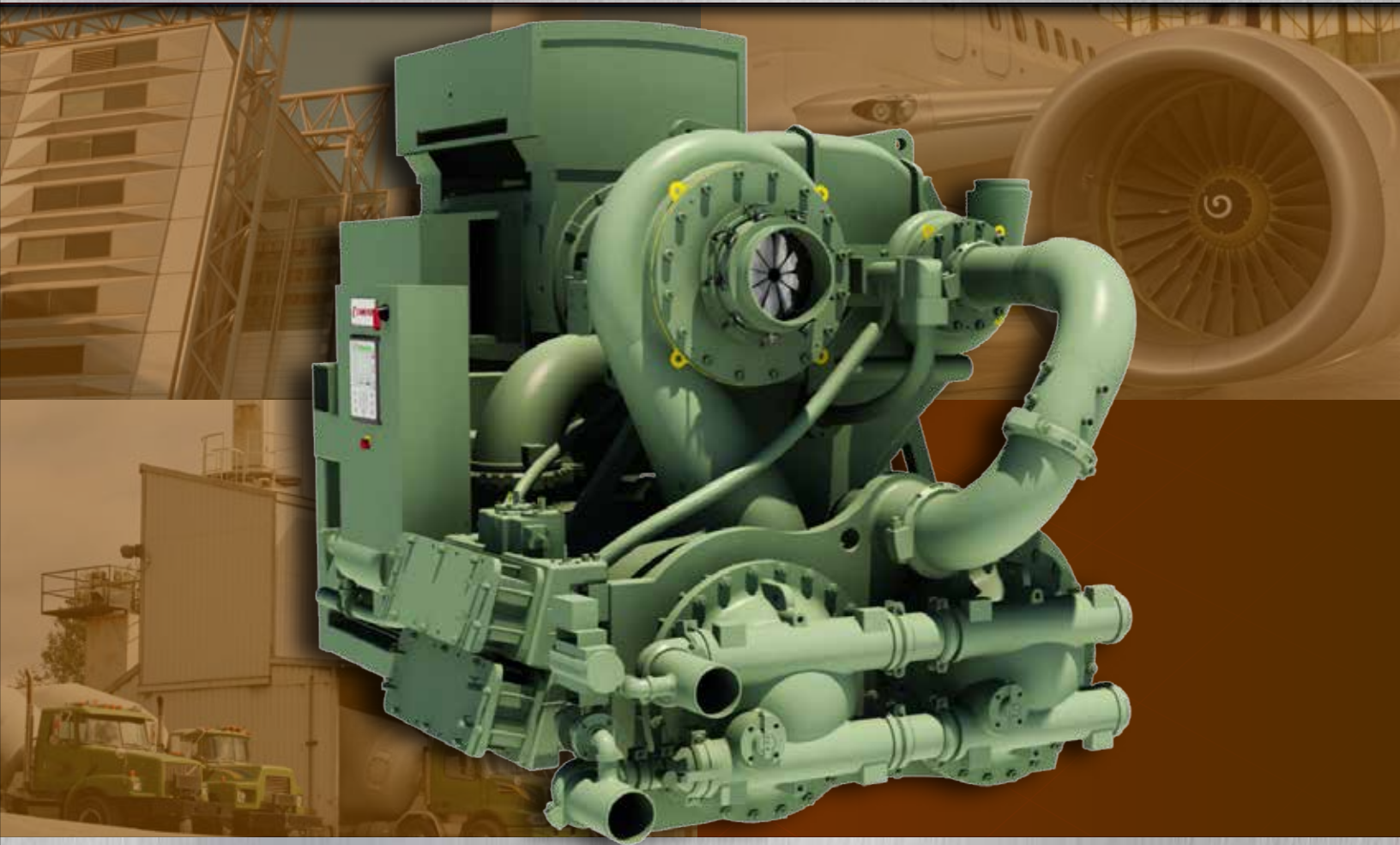
**HSE Policy Statement**

At Cameron, we are committed ethically, financially and personally to a working environment where no one gets hurt and nothing gets harmed.

TURBO-AIR NX 12000 Centrifugal Compressor

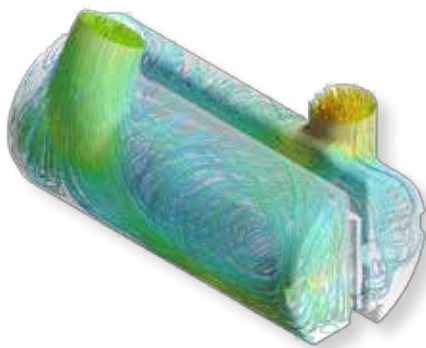
Certified 100% oil-free air

TECHNOLOGY



Same Cameron Quality, All New Compressor

Cameron has a long-standing tradition of providing innovative products and technology that positively affect our customers' bottom line. Following this tradition, Cameron is proud to introduce the new TURBO-AIR® NX 12000, a centrifugal compressor designed to meet the highest performance and reliability standards. These high standards were achieved by incorporating robust design features that increase flow and optimize efficiency in a compact footprint.



Featured Improvements






- Patent-pending lube technology with integrated filters, coolers and manifold, allowing for a leak-free, compact and high-performance system
- Optimized stage and gas passages utilizing computational fluid dynamics (CFD)
- OEM optimized cast-in-water manifold, with a patent-pending integral trim valve
- Interchangeable intercooler/aftercooler bundles and headers

ISO Certified Class Zero

Our TURBO-AIR centrifugal compressor product line has been engineered to produce oil-free air for over 55 years. This certification officially acknowledges the ability of our compressors to produce 100% certified oil-free air, providing our customers with enhanced quality assurance.



Compare Cameron's innovative centrifugal compressor technology with other compressors, and the advantages are clear.

CAMERON'S CENTRIFUGAL COMPRESSORS	OTHER COMPRESSORS
 <p>LOW MAINTENANCE</p> <ul style="list-style-type: none"> • No wearing parts requiring regular replacement • Oil filter elements are easily replaced • Bearings designed for extended life 	<ul style="list-style-type: none"> • Require regular maintenance and periodic replacement of air ends • Result in high operating expenses and significant machine downtime
 <p>OIL-FREE AIR</p> <ul style="list-style-type: none"> • 100% oil free • Prevent contamination of system 	<ul style="list-style-type: none"> • Oil filters must be installed at discharge • Potential for oil carryover that fouls the process • Oil-free claim is dependent on uninterrupted seal gas supply
 <p>HIGH RELIABILITY</p> <ul style="list-style-type: none"> • No wearing parts • Conservative high-quality gear design 	<ul style="list-style-type: none"> • Contacting compression elements are subject to wear • Limited rotating element life • Designed-in wearing items to generate aftermarket revenues
 <p>OPTIMUM CONTROL</p> <ul style="list-style-type: none"> • Automatic operation for any operating condition • State-of-the-art MAESTRO™ suite of controls • PLC control available 	<ul style="list-style-type: none"> • Limited control capability • Costly, high-maintenance variable speed available
 <p>NO VIBRATION</p> <ul style="list-style-type: none"> • Essentially vibration-free • No special foundation is required 	<ul style="list-style-type: none"> • Special foundations needed to handle heavy weight • Precautions must be taken to prevent transmission of vibration to other equipment

TURBO-AIR NX 12000 Centrifugal Compressor

Efficient Package

Cameron's TURBO-AIR NX 12000 centrifugal compressor features easy, low-cost installation and operation.

Compressor Motor Sizes Available

1120 to 2237 kW (1500 to 3000 hp)

Compressor Discharge Pressure Range

3.5 to 14.5 barg (50 to 210 psig)

Compressor Flow Range

212 to 430 m³/min (7500 to 15,200 ft³/min)

Compressor Weight

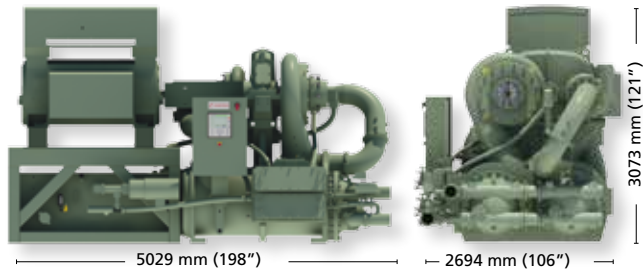
18,143 kg (40,000 lb)

Lowest Compressor Operating Cost

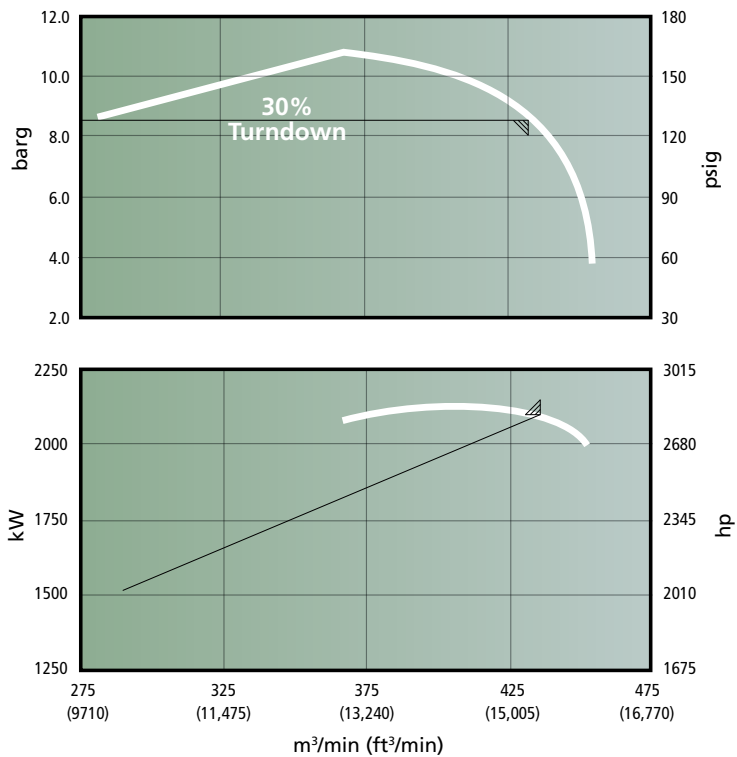
Over time, the energy required to power a compressed air system is the largest cost associated with a compressor, particularly in today's fluctuating energy markets. That is why, to determine the best return on your investment over the life cycle of a compressor, it is important to consider the initial investment, energy consumption and maintenance.

As the chart demonstrates, the TURBO-AIR NX 12000 provides some of the lowest total life cycle costs of any compressor.

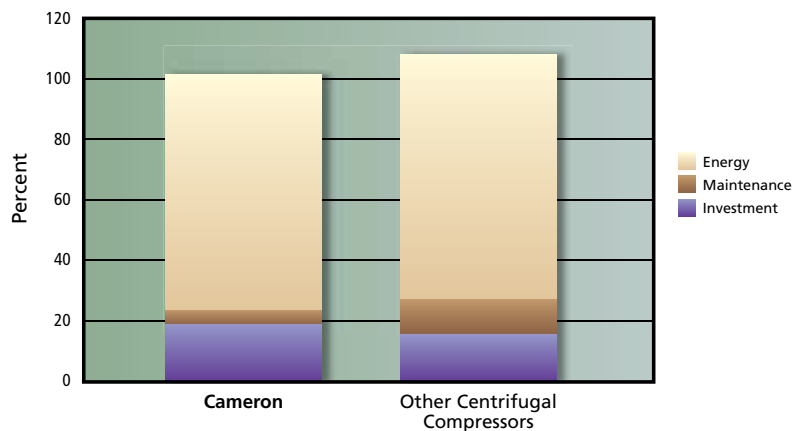
The power savings delivered can significantly speed up the payback on your initial investment, and the savings continue to build the more you use the TURBO-AIR NX 12000.



Typical Performance Curve for 2237 kW (3000 hp)/8.6 barg (125 psig)



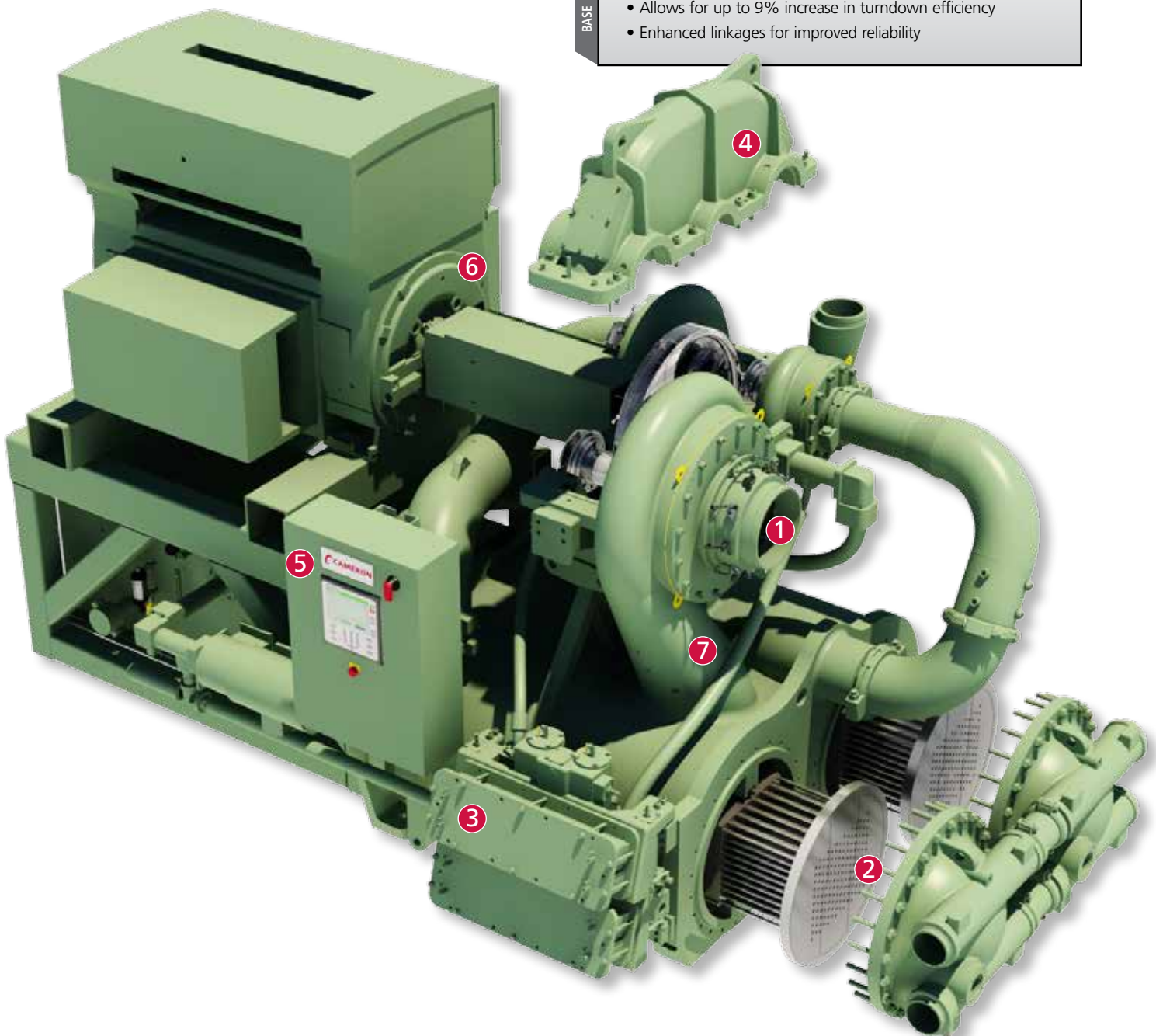
Life Cycle Cost Comparison (more than 10 years of operation at 80% loaded)



TURBO-AIR NX 12000 Centrifugal Compressor

Features and Benefits

Cameron's TURBO-AIR NX 12000 centrifugal compressor is newly improved, with a variety of upgraded features.



INTERCOOLERS/WATER MANIFOLD



2

BASE

- Straight tube design
- Optimized heat-transfer surface for top performance
- Factory design and proven integrated water manifold
- Single-point customer water connection for ease of install

UPGRADE

- Coolant trim valve to reduce wasted energy

MAESTRO UNIVERSAL SP CONTROLS



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BASE

- Automatic and precise pressure/flow regulation
- User selectable energy-saving control modes
- Single Point (SP) – simplifies site electrical installation work

UPGRADE

- Interstage pressure and temperature monitoring
- X, Y, axial and keyphasor monitoring

LUBRICATION SYSTEM



3

BASE

- Duplex filter for improved uptime
- SAE double O-ring connection allows for leak-free operation
- Temperature control valve

UPGRADE

- Bolt-in-place twin oil cooler design

PACKAGED HIGH-EFFICIENCY DRIVER



6

BASE

- Reduced energy costs
- Selected to meet site-specific requirements

HORIZONTALLY SPLIT GEARBOX



4

BASE

- Built-in inspection portals
- Easy access for periodic maintenance

CORROSION PROTECTION

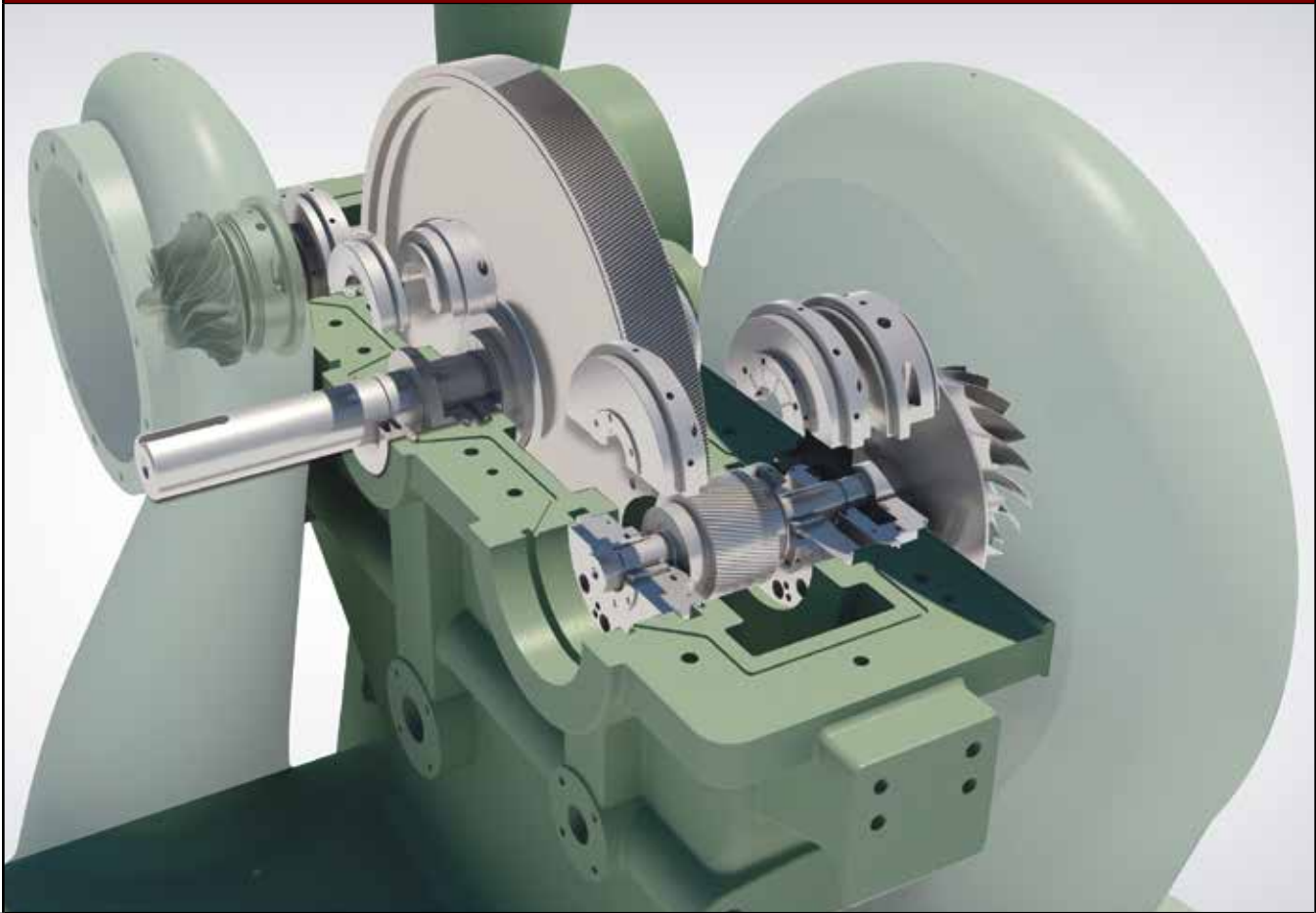


7

BASE

- High-gloss, industrial-grade, epoxy-based exterior paint
- Cooler cavities protected with special epoxy coating
- Oil cooler supplied with stainless steel heat-transfer surfaces as standard

ROBUST AIR END AND ROTATING COMPONENT DESIGN



BASE

- High-efficiency AGMA 13 gearing
- Five-axis milled impellers
- Split seal and bearing design for ease of inspection
- Non-contacting air and oil seals
- Stainless steel rotating compression elements

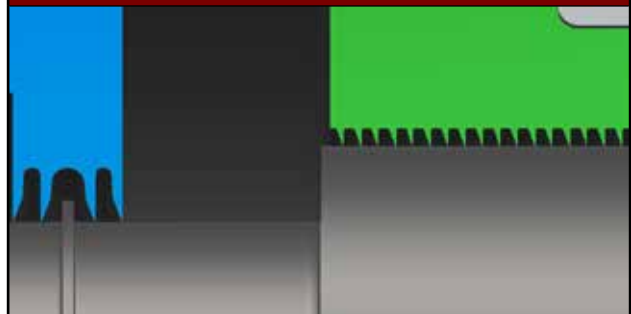
TILTING PAD JOURNAL BEARING WITH INTEGRAL THRUST BEARING



BASE

Enhances mechanical reliability for a wide range of loads

HARDWARE-FREE INTERLOCKING AIR AND OIL SEALS



BASE

Non-contacting, non-wearing labyrinth air and oil seals, with atmospheric air space, require no buffer air for oil-free air, eliminating the need for periodic replacement of carbon seals and instrument air for permissive starting

Cameron's Aftermarket Services and Support

Cameron proves its commitment to your total satisfaction by providing CAMSERV™ aftermarket services, the industry's most comprehensive resource for top-notch aftermarket products, engineering solutions and field service. If you ever have a question or problem, we are at your service. Cameron has more than 80 representatives and distributors worldwide to service your needs wherever your application is located. We keep life cycle records on every unit we manufacture, enabling us to be a partner with you, now and in the future.



High-Quality OEM Parts

- Genuine parts designed and produced in the US for more than 55 years
- Extensive inventory in strategic locations around the world, backed by our standard OEM guarantee
- Cross-checked against unit assembly and maintenance records to ensure accuracy

Field Service

- CAMCARE™ preventative maintenance program
- Diagnostic and troubleshooting services
- Vibration analysis and trending

Factory Training

- Comprehensive, onsite training seminars for you and your personnel
- Instruction on a variety of topics, including Level 2 courses offering hands-on training
- Courses can be tailored to meet your needs at our factory training center

CAMCARE Warranty Program

CAMCARE is a comprehensive preventative maintenance program aimed at eliminating unplanned maintenance, along with reducing machine outages. CAMCARE is available for all of your centrifugal compressor equipment.

A Comprehensive Solution

To better serve our customers, we offer CAMCARE at two levels of protection so that you can choose the service that best suits your needs.



CAMCARE Premier

- Two to four visits per year
- Five-year extended air-end warranty
- Annual supply of preventative maintenance parts
- All travel costs and services for technical labor
- Available for all Cameron units
- Fixed discounts for additional services

CAMCARE Complete

- Includes all benefits of our CAMCARE Premier program, in addition to:
- Five-year extended complete machine warranty