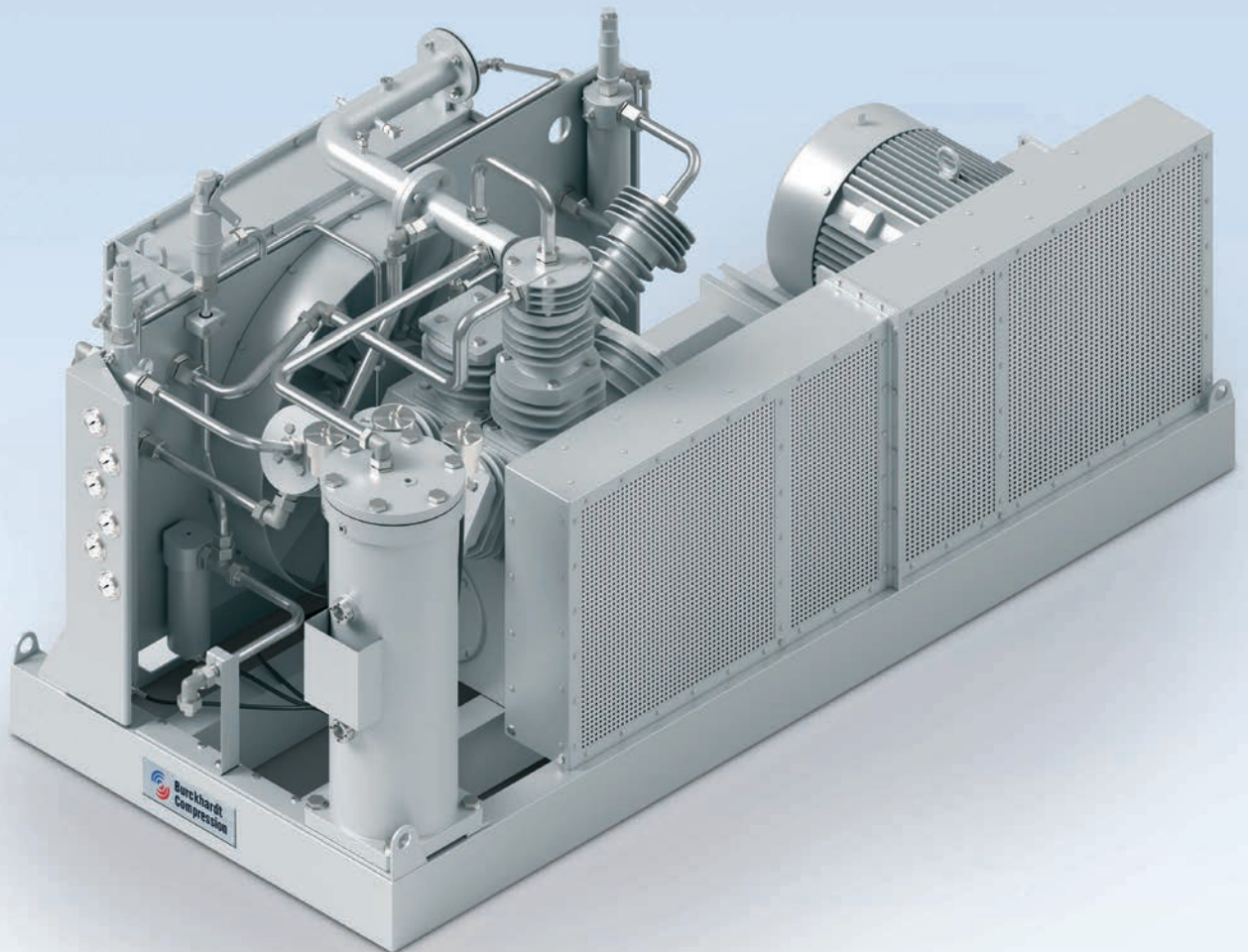


STANDARD HIGH PRESSURE COMPRESSORS

COMPACT PACKAGE FOR DEMANDING APPLICATIONS



BURCKHARDT COMPRESSION

GLOBAL TECHNOLOGY LEADER IN THE RECIPROCATING COMPRESSOR WORLD

Burckhardt Compression is one of the worldwide market leaders in the field of reciprocating compressors and the only manufacturer that covers a complete range of reciprocating compressor technologies. Its customized compressor systems are used in the upstream oil & gas, gas transport and storage, refinery, chemical, petrochemical and industrial gas sectors. Burckhardt Compression's leading technology, high-quality compressor components and the full range of services help customers to minimize life cycle costs of their reciprocating compressor systems around the world. Since 1844 its highly skilled workforce has crafted superior solutions and set the benchmark in the gas compression industry.

IN-HOUSE EXPERTISE

With hundreds of references, Burckhardt Compression has continuously improved the technology and components of Standard High Pressure Compressors. Thanks to in-house engineering and manufacturing the high quality equipment and components guarantee longest MTBO (mean time between overhaul).

WORLDWIDE PRESENCE

- Worldwide 24/7 service network
- Whenever you need support, you get it



GAS TRANSPORT & STORAGE

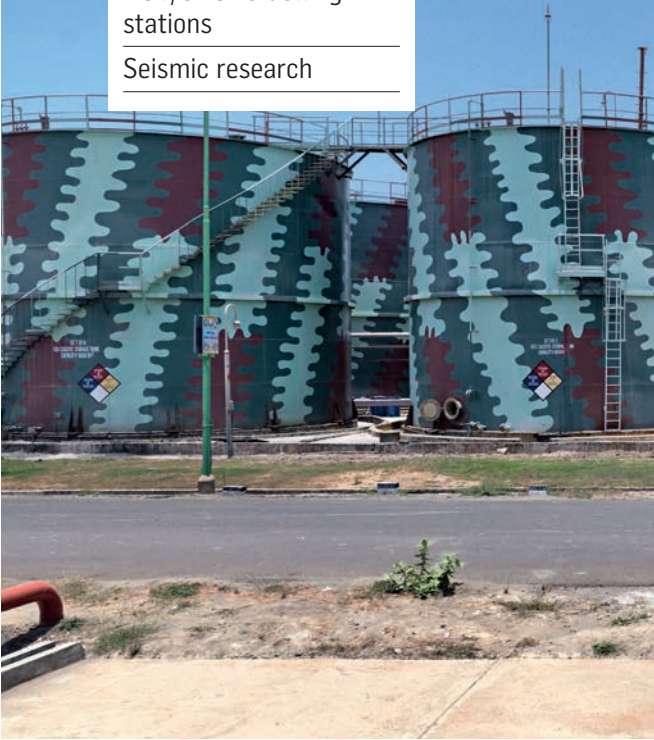
BOG handling

Fuel gas injection
(dual fuel engines)

Bio Gas processing

NGV/CNG refuelling
stations

Seismic research



INDUSTRIAL GASES

Air compression & separation

Bottling plants for
industry gases

Hydrogen

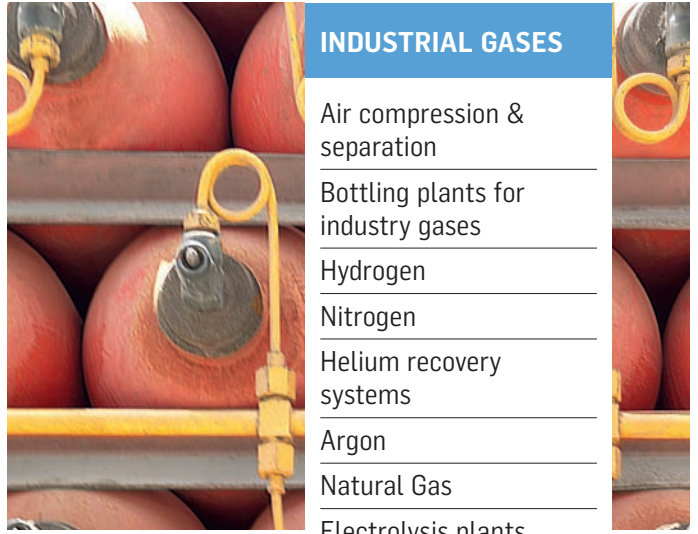
Nitrogen

Helium recovery
systems

Argon

Natural Gas

Electrolysis plants



H₂

He

CH₄

N₂

Ar

HUNDREDS OF INSTALLATIONS IN A WIDE RANGE OF APPLICATIONS



CU compressor meeting high safety standards in a hydrogen bottling plant

STANDARD HIGH PRESSURE COMPRESSOR

COMPACT PACKAGE FOR DEMANDING APPLICATIONS

Standard High Pressure Compressors from Burckhardt Compression guarantee highest operational efficiency. Thanks to leading technology and in-house manufactured components, our customers can put their full trust in our highly reliable compressor systems. The variety of gases handled by our Standard High Pressure Compressor, which includes critical and extremely light gases, makes it a powerful and unique solution.

NO GAS LOSS FOR SAFE AND ECONOMIC OPERATION

- No gas loss to the atmosphere, gas tight even for very light gases

HIGHER EFFICIENCY

- Low pressure ratio per stage
- Compression up to six stages for high pressure

IN-HOUSE COMPONENT MANUFACTURING

- High quality of components, developed and manufactured in-house, ensures longest MTBO and highest availability

MANIFOLD BENEFITS

- Trunk piston design for low spare part consumption
- Selection of materials, technology
- Handling of critical gases, many installations
- Reliable self-standing, small footprint

CERTIFICATIONS

Standard High Pressure Compressors can be supplied with the following certifications:

- MD, PED, ATEX and CE
- KHK for Japanese market
- Gost and RTN
- Marine standard (DNV/GL, LR or equivalent)
- Others

DESIGN FEATURES

DEPENDABLE COMPRESSOR FOR DEMANDING APPLICATIONS

KEY COMPRESSOR COMPONENTS – FOR BEST PERFORMANCE AND LONGEST LIFETIME

PISTON RINGS

- Specially designed for high pressure
- Metallic for optimum cylinder lubrication and to limit the oil content in discharge gas
- Non metallic for special cases

CONCENTRIC VALVES

- Combined suction and discharge
- Compact in size
- Easy to assemble and dismantle
- Metallic/non metallic internals

SMALL END BEARINGS

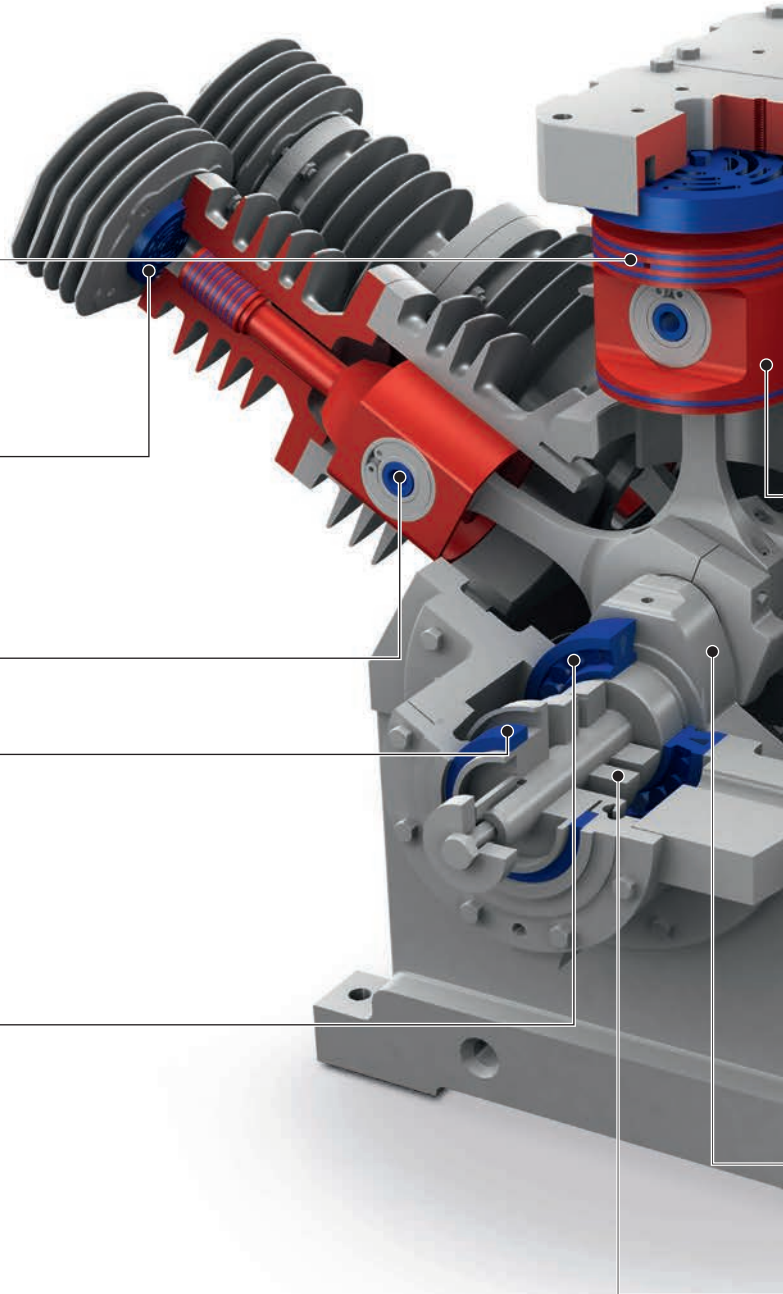
- Cylindrical roller bearings/sleeve bearings with high reliability

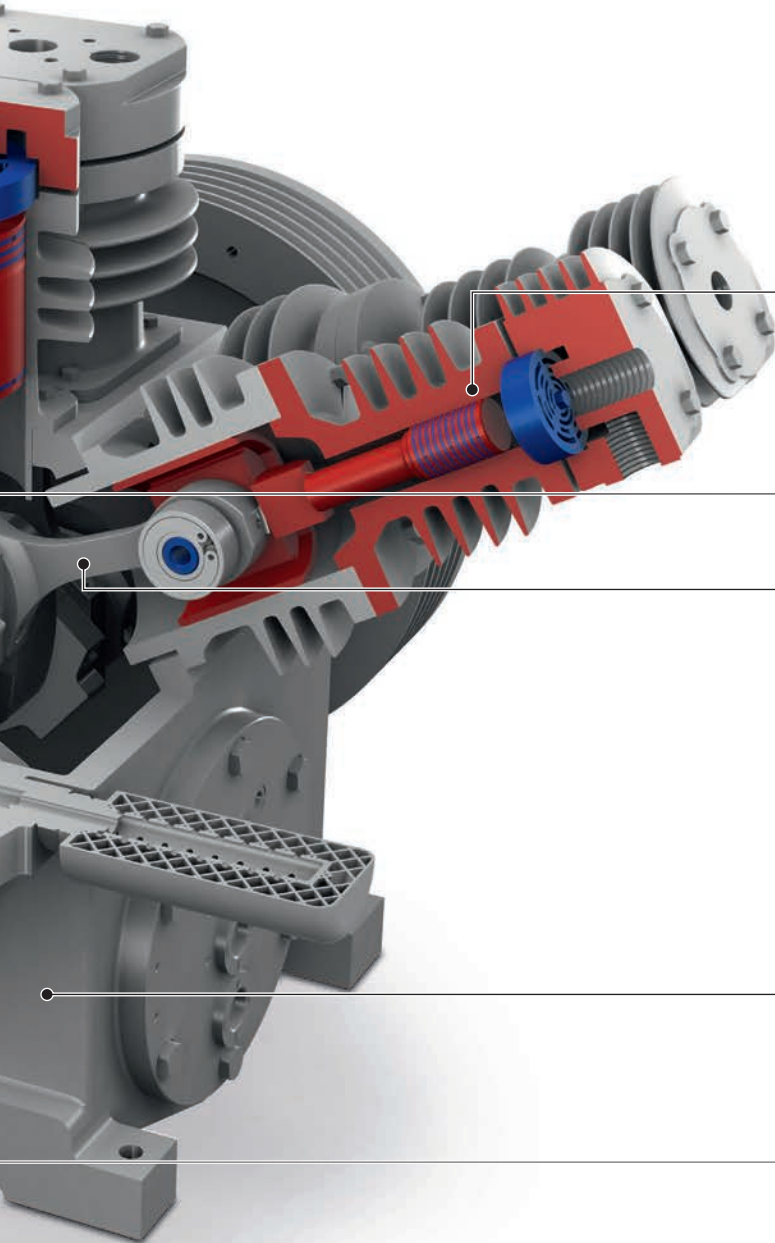
SEALS

- Pressure-tight and pressure-relieved
- Oil seal for low suction pressure application
- Mechanical seal for high suction pressure application
- Available in two versions
- No gas loss

MAIN BEARINGS

- Specially designed journal type for H₂ application with high suction pressure
- Angular contact double roller bearings for other applications





**IN-HOUSE DESIGNED AND
MANUFACTURED MAIN PARTS –
FOR HIGHEST RELIABILITY**

CYLINDER

- Single acting
- Specially coated for longer ring life
- No liner required
- Air cooled or water cooled

PISTON

- Wide range of sizes

CONNECTING ROD

- High strength material

**RUGGED DESIGN –
FOR HIGHEST DURABILITY**

CRANKCASE

- Robust and compact design
- Suitable for elevated suction pressure

CRANKSHAFT

- Dynamically balanced

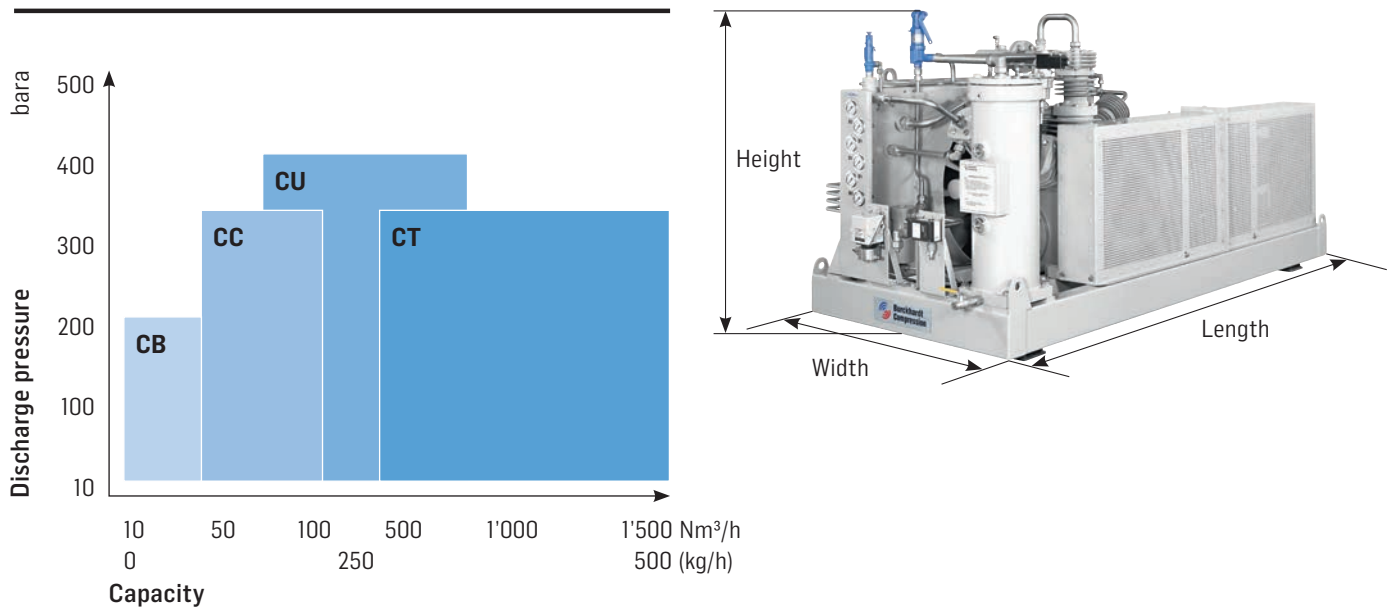
LUBRICATION PUMP

- Highly reliable
- Lobe type
- Crankshaft-driven

PERFORMANCE RANGE

A BROAD PORTFOLIO FOR ALL YOUR APPLICATIONS

PERFORMANCE RANGE



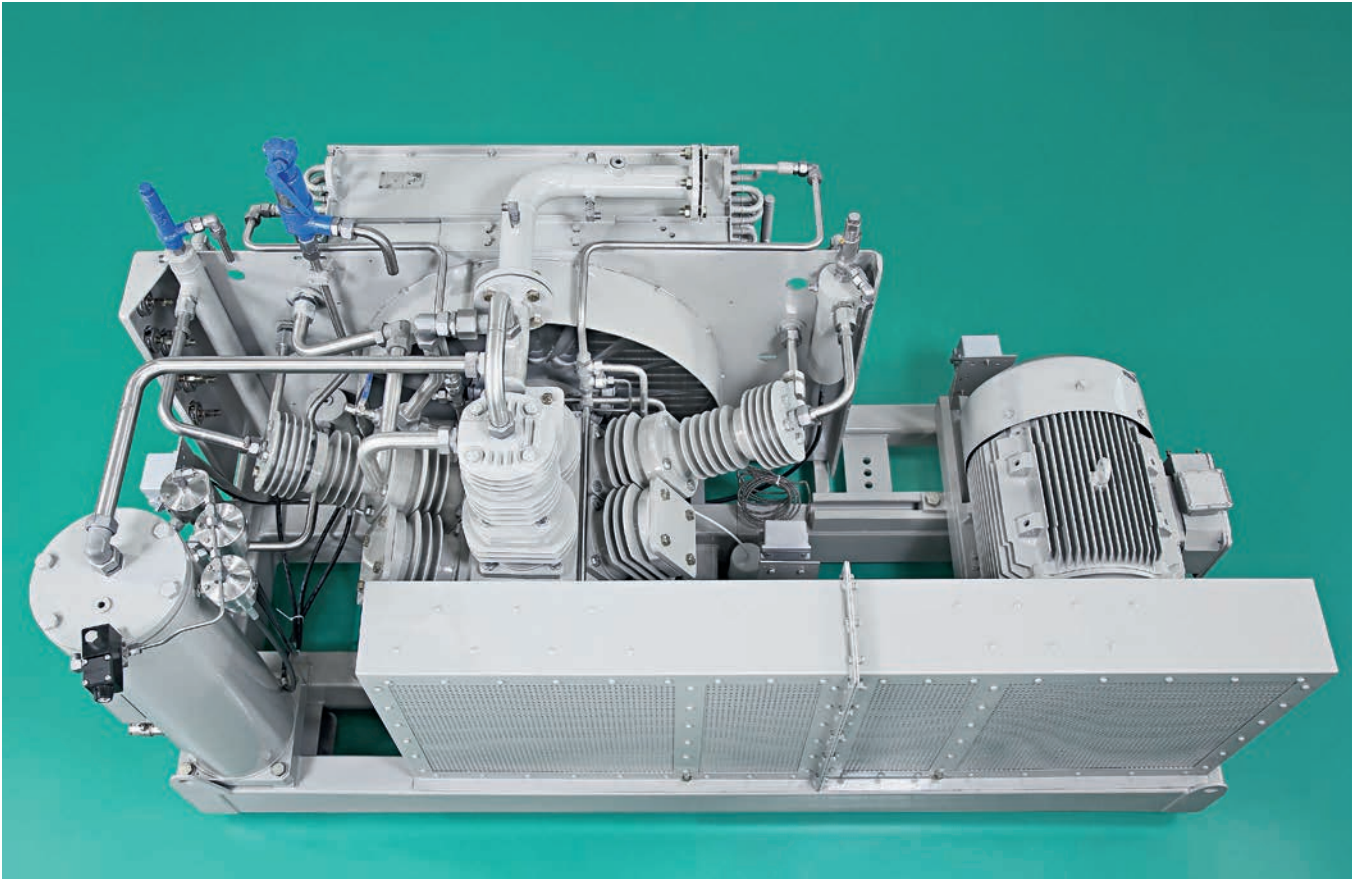
TECHNICAL DATA AND DIMENSIONS

Type	Stroke mm	Max. Speed rpm	Rated Power kW	Width mm	Height mm	Length mm	Weight kg
AIR-COOLED							
CC	100	1'365	45	1'250	1'415	1'900	1'350
CU	100	1'230	110	1'200	1'430	2'600	1'800
CT	125	1'045	200	1'950	2'000	3'800	4'800
WATER-COOLED							
CB	80	1'500	18	800	800	1'700	500
CT	125	1'045	200	2'000	2'000	4'000	4'800

The above mentioned models are available from 2 to 6 stage compression, as per application suction parameters and according to compressor sizing.

COMPACT PACKAGE

AIR COOLED OR WATER COOLED



CU compressor package

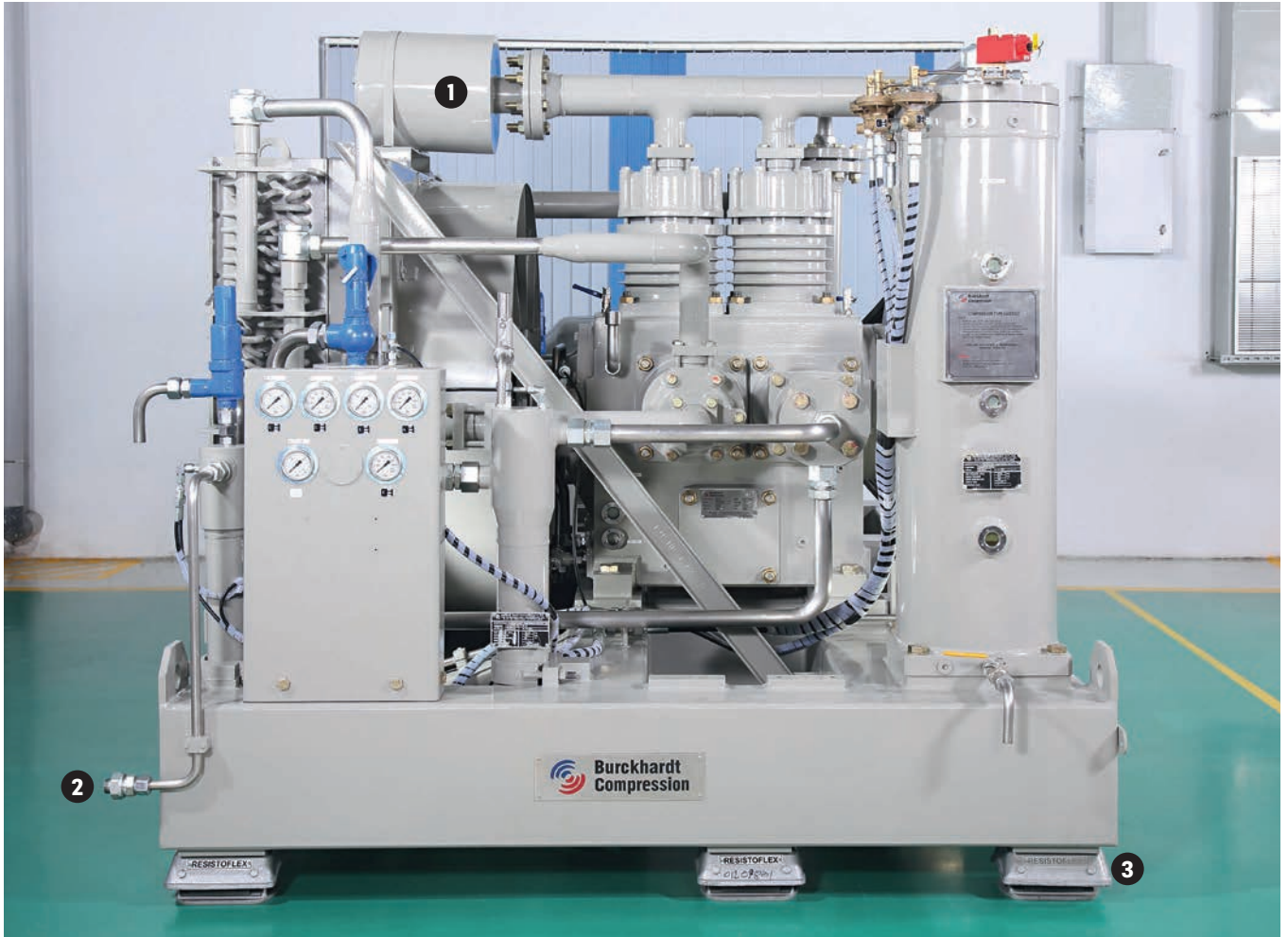


CU compressor package



CT compressor package

EASE OF INSTALLATION



CT compressor package ready to be connected

The compressors are supplied as skid-mounted, factory assembled packages. The compressor can be started just by connecting it to the inlet connection, outlet connection and power supply through a control panel.

- ❶ Inlet connection
- ❷ Outlet connection
- ❸ Anti-vibration foot mounts

COMPLETE SOLUTION PACKAGE

Standard High Pressure Compressors are standardized packages with a fixed configuration within four frames (CB, CC, CU and CT). With these four frames with standardized operating speeds and standardized scope of supply we meet every customer's enquiries.

SERVICES

ENHANCE YOUR MAINTENANCE

PREDICTIVE MAINTENANCE

- Comprehensive customized service from diagnostic service to predictive maintenance
- Full service agreements for maximum availability
- Vast experience thanks to compressor installations across a wide range of applications

SPARE PARTS LOGISTICS

- Original spare parts with OEM guarantee
- Spare parts frame agreements
- Stock recommendations
- Express service for emergencies
- Over 16'000 parts in stock

FIELD SERVICE

- Highly experienced service people
- Erection/commissioning
- Service contracts/preventive maintenance
- Start-up support
- Turn-key installations

TECHNICAL SUPPORT

- Performance analysis for optimized and efficient compressor operation
- Troubleshooting
- Root cause analysis
- Emergency availability 24/7
- On-site failure analysis
- Consulting

REVAMPS

- Modernizing/upgrades/retrofits
- Relocation of machines
- Debottlenecking
- Operation mode studies for own as well as for other brand compressor systems

COMPONENT REPAIR

- Condition analysis
- Recommendations concerning which parts can be repaired or need to be replaced
- Incorporation of the latest technology where possible

SERVICE CENTERS WORLDWIDE

Full range of services and top performing components through global organization and local service centers.

**24 hours emergency:
+41 52 262 53 53**

RECIPROCATING COMPRESSORS

LEADING TECHNOLOGY FOR
LOWEST LIFE CYCLE COSTS

**Laby®
Compressors**
Contactless
and oil-free



**Laby®-GI
Compressors**
Fully balanced



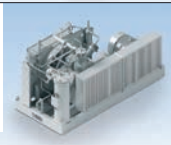
**Process Gas
Compressors**
API 618 – lowest life
cycle costs



Hyper Compressors
Safe and reliable
up to 3'500 bara /
51'000 psia



**Standard
High Pressure
Compressors**
Compact package for
demanding applications



COMPRESSOR COMPONENTS

BEST PERFORMANCE
AND LONGEST LIFETIME

Compressor valves

Redura® rings & packings

Capacity control systems

Capital parts

Labyrinth piston compressor
components

Hyper/secondary compressor
components

SERVICES

THE FULL RANGE

Burckhardt Valve Service

Spare parts logistics

Field service

Technical support

Revamps & upgrades

Component repair

Condition monitoring &
diagnostics

Training

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