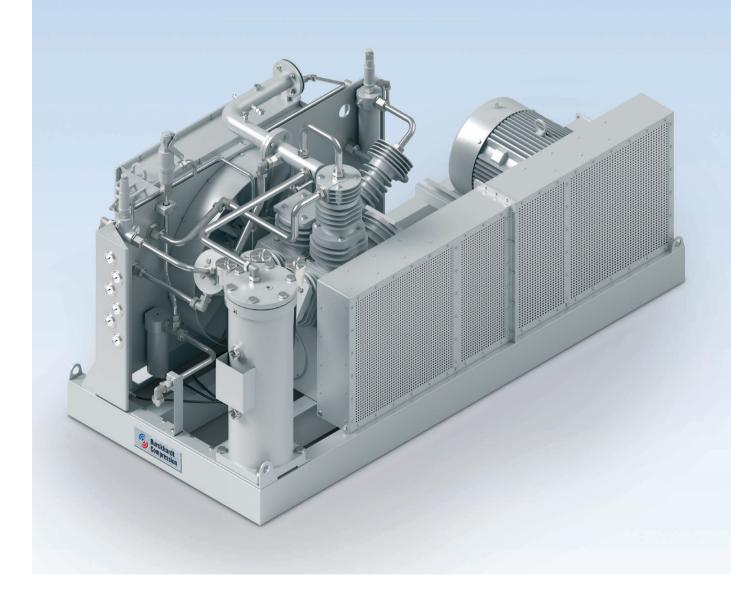


STANDARD HIGH-PRESSURE COMPRESSORS

COMPACT PACKAGE FOR DEMANDING APPLICATIONS



Compressors for a Lifetime™

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.

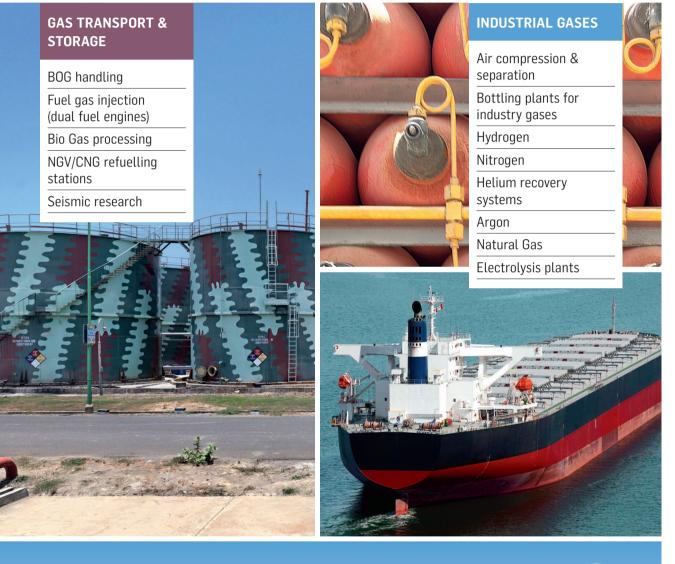
IN-HOUSE EXPERTISE

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







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 -

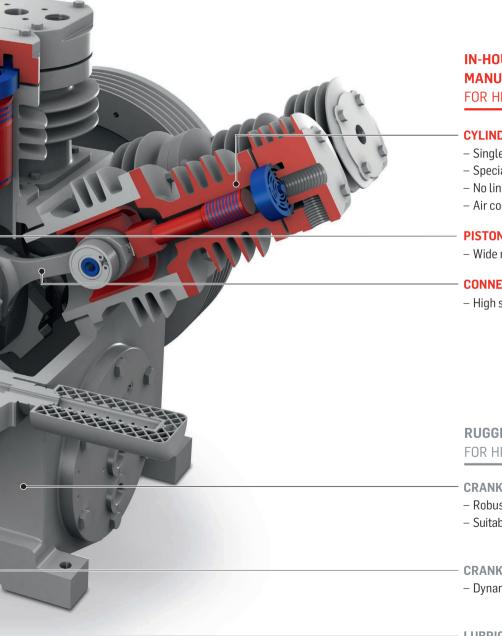
- Cylindrical roller bearings/sleeve bearings with high reliability

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 $\rm H_2$ 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

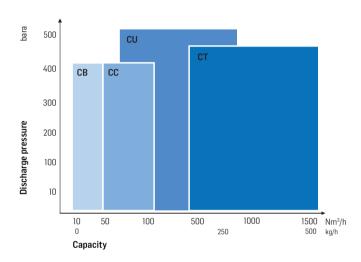
CRANKSHAFT

- Dynamically balanced

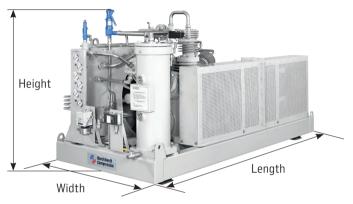
LUBRICATION PUMP

- Highly reliable
- Lobe type
- Crankshaft-driven

PERFORMANCE RANGE A BROAD PORTFOLIO FOR ALL YOUR APPLICATIONS



PERFORMANCE RANGE

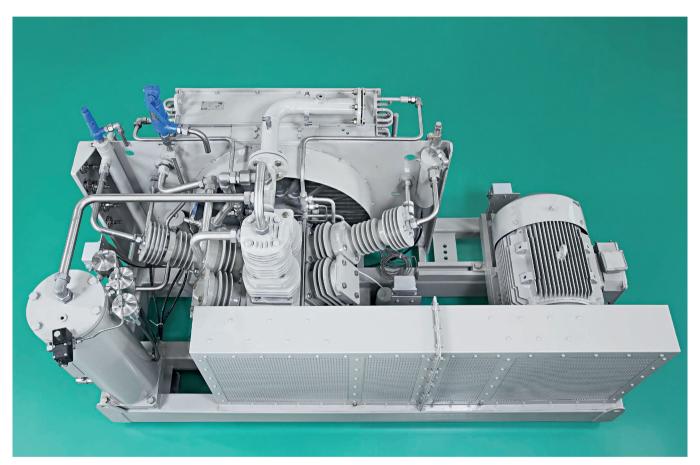


TECHNICAL DATA AND DIMENSIONS

Туре	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
СТ	125	1'045	200	1'950	2'000	3'800	4'800
Water-Cooled							
СВ	80	1'500	18	800	800	1'700	500
СТ	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.

Inlet connection Outlet connection Anti-vibration foot mounts

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2

3

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.

UNEQUALED SERVICE CAPABILITIES FOR EVERY RECIPROCATING COMPRESSOR

REQUIREMENTS & SITUATION ANALYSIS

- Process Gas Compressor condition change
- Damaged parts/failure
- Worn out parts
- Troublesome parts

- Improved design to replacement parts with excessive wear
- Precarious or unsafe operating condition
- Maintenance or spare parts logistic scheduling



- Root cause analysis/failure analysis
- Risk analysis
- Condition analysis
- Material analysis

EVALUATION

- Feasibility studies
- FEA studies
- Non-destructive testing (NDT)
- Stock recommendations

- On-site, and/or in-house measurements of components
- Reverse engineering
- Retrofit

ENGINEERING

- Recalculation and dimensioning
- Engineering for repair procedures
- Material selection and sizing



MANUFACTURING

- Highest quality assurance
- In-house precision manufacturing of capital parts
- Fast track production upon request
- Reproduction (1:1 replacement incl. integration of latest quality standards) – OEM guarantee



FIELD ACTIVITIES

- Extensive service network with our specialized field service engineers/troubleshooters
- Dismantling/Reassembly of parts
- Large parts stock

- Spare parts frame agreements
- Worldwide distribution and service center network
- Burckhardt e-shop[™] spare parts identification and ordering system

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YOUR SOLUTION PARTNER FOR THE ENTIRE LIFE CYCLE OF COMPRESSOR SYSTEMS







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



Burckhardt Compression AG

CH-8404 Winterthur Switzerland Tel.: +41 52 262 55 00 Fax: +41 52 262 00 51 24-hour emergency tel.: +41 52 262 53 53 info@burckhardtcompression.com www.burckhardtcompression.com



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