



**Burton
Corblin**



Process compressors
engineering

Unmatched

"savoir-faire"

Thanks to an exceptional "savoir faire" in gas compression, Burton Corblin is known throughout the five continents. In Europe, the Americas and in Asia, the biggest names in industry in their various domains have chosen Burton Corblin quality.

This know-how includes the design, manufacture, testing, commissioning and maintenance of gas or air compression systems with variable complexity levels.

Quality, safety, accessibility, performance, environmental protection and reliability are the determining parameters in the design of Burton Corblin compressors.

Burton Corblin does not limit itself to the design and manufacture of compressor installations but also will advise and assist you throughout the life of your units.



AN INTERNATIONAL PRESENCE

With an exclusive packaging distributor in the United States for the North American continent, an after-sales base in Hong Kong for the Asia Pacific region and a network of agents and distributors covering more than 60 countries, Burton Corblin continues its international growth and development.

Burton Corblin does most of the design, manufacture and packaging in its factory at Nogent-sur-Oise, France. Some of its agents in Europe, Japan and the United States customize the complete packages to respond to their market needs. Thanks to this network of agents/distributors, Burton Corblin is able to understand to the specific needs of its clients and put at their service qualified people ready to offer worldwide technical assistance.

HISTORICAL DATES

1884

W. Burton sets up a repair shop for positive displacement pumps and builds his first "machines to compress air" in Nogent-sur-Oise : "Les Ateliers Burton".

1916

H. Corblin invents and patents the diaphragm compressor technology in Paris.

1971

Merger of Burton & Corblin

1995

Howden Group Plc./UK acquires BCSA and BCNA



CUSTOMERS IN ALL MAJOR INDUSTRIES

ABB Lummus Crest, Adnoc, AGA, Air Liquide, Air Products, Amoco, Aramco, Atochem, BASF, Bayer, Bechtel, BF Goodrich, B.O.C, B.P., Brown & Root, Butagaz, Chemgaz, Chevron, Chiyoda, CNCC, CNTIEC, CPC, Daelim Eng., EIL, ELF Antargaz, ENI, Enipetrol, ESSO, Ethyl Corp., Exxon, Firestone, Fluor Daniel, Formosa Plastics, Foster Wheeler, Gaz de France, Goodyear, Hoechst, Hoffman La Roche, ICI, IPCL, JGC, Johnson Matthey, Kellogg, Kvaerner/John Brown, LG Engineering, Linde, Lurgi, Messer, Michelin, Mitsubishi Kasei, MHI, Mitsui Petrochemical, Mobil, Montedison, Morton, Naphtachimie, NASR, Norsk Hydro, OEA, OJS, ONGC, Pemex, Petrobras, Petromarine, Petronas, Petroquimica, Philips Petroleum, Poliolefinas, Praxair, Primagaz, P.U.K., Raytheon Eng., Rhone Poulenc, Samsung General Chemical, Samsung Petrochemical, Sadaf, Samir, Sasol, Schering, SECL, Shell, SIDEL, Snam Progetti, SNEAP, Sofresid, Solvay, Sonatrach, Sopco, Statoil, Sumitomo Chemicals, Sunoil Co, Technip, Texaco, Toyo Eng., Total, TPL, Union Carbide, Unilever, YPF...



QUALITY : A PERMANENT GOAL

Quality is a long tradition at Burton Corblin. The company follows the ISO 9001 requirements.

Internal and external audits of the quality system are performed continuously to verify that the procedures are correctly followed.

A Quality Plan is defined for each job taking into account the requirements of the order.

The tests and verifications are performed at Burton Corblin or sub-contractors that have been approved by the Quality Department : chemical analysis and mechanical characteristics of materials, visual and dimensional checks, surface roughness, hardness, dye penetrant test, ultrasonic examination, magnetic particle test, x-ray examination, hydrostatic test, pneumatic test, helium leak-test, etc.

A RANGE OF PRODUCTS DESIGNED TO YOUR NEEDS

Burton Corblin designs, manufactures and services gas compression systems particularly suited for industries such as chemical, petrochemical, oil & gas, food processing, nuclear, research, etc.

These gas compression systems are based on the following technologies :

- Reciprocating piston compressors up to 250 bar and 1300 kW
- Metallic diaphragm compressors up to 3000 bar and 150 kW
- Rotary Periflow® compressors up to 200 bar and 1000 kW.

EXTENSIVE APPLICATIONS

- Process Air for PET bottle blow-moulding
- Train wagon, truck tanks and ships liquid gas offloading
- Fuel gas feed for gas turbines
- Gas lift, gas offloading
- Compression and liquefaction of carbon dioxide
- Polymers and resins processes (LDPE, HDPE, PP, PVC, PS, ABS, EVA...)
- Blanketing process (dry Nitrogen)
- Petrochemical processes EO/EG, Paraxylene, PTA, MMA, 2-EH, TDI, Oxo Alcohols,...
- Naphtacracking, oil refining processes (FCC, RCC, HDS, Isomerisation, MTBE, BTX...)
- Gas purification and regeneration
- Gas recovery and recompression
- Boosting and recycling of hydrocarbon gases and hydrogen rich gas mixtures
- Molecular sieve regeneration in gas drying processes.



Advanced engineering and production means

Burton Corblin keeps its compressor engineering technology moving in the future. We provide this benefit to our customers through the utilisation of the latest computer-aided design, engineering, manufacturing and testing systems :

- a fully **3D-C.A.D./C.A.M.** system to optimize the detail design and facilitate the manufacture. Machining programs can be loaded automatically into the CNC machine tools in the workshop.

- a link to the Computer-aided Production management system.
- a bar-code system for identification of parts, identification and follow-up of manufacturing operations and production steps, inventory monitoring.

Our commitment to Quality (ISO 9001 accredited by BVQI) is as strong in the design and the manufacture as in the compressor inspection and installation.

C.A.D. System ▼



C.A.M. System ▼



RESEARCH & DEVELOPMENT

From feasibility studies to industrialisation, Burton Corblin develops concepts and processes in line with the approach of ISO 9000. Burton Corblin has made and will continue to make substantial investments in product research and development as follows :

- *theoretical and experimental long term studies made in coordination with well-known and competent research organisations*
- *medium term studies for continuous improvement of our product range.*
- *short term technical assistance which consists in fine tuning of compressors.*



▲ CNC machine tools

◀ Machine-made diaphragm cut

Geometric and dimensional controls through a tridimensional computer aided machine



Helium leaktest and Hydrostatic Test (soap bubble, mass spectrometer)



Assembly and piping made by qualified and experienced fitters



Systematic tests and recording of all parameters are made on test bench



Final inspection before shipment to customers

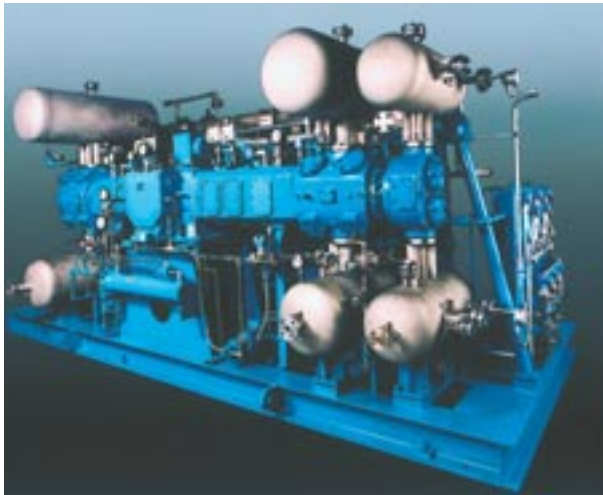


A wide range of air and gas compressors

PISTON COMPRESSORS - P SERIES

Burton Corblin piston compressors are designed for difficult applications in continuous operation. A large range of mechanical frame assemblies and cylinders allows different combinations to best fulfil the customers and operations requirements. Specialised in non-lubricated compressors, Burton Corblin has acquired an international reputation for the design and manufacture of complete gas compression sets for the most difficult gases.

The choice of materials for the cylinders, packing, piston rings, gaskets and valves are adapted to the operational requirements for an optimal lifetime.



The reputation of Burton Corblin is built continuously throughout the world in many different industrial sectors (Instrument air, process air for PET bottles or oxydation processes, Engineering, Chemical, Petrochemical, Oil and Gas, fuel gas feed, inert gas blanketing etc...).

Power from 10 to 1300 kW

Discharge pressure up to 250 bar

Industrial packages for various gases (Air, N₂, O₂, CO₂, Ar, H₂, Methane, Butane, Propane, etc...)

Compressor sets designed to API 618 for process applications (H₂, Hc, Co, ...)

Oil free or oil lubricated versions

Bare units or packaged sets

One throw vertical or horizontal, two-throw or four-throw horizontal, "L" configurations.

ROTARY PERIFLOW® COMPRESSORS

The rotary Periflow® compressors are centrifugal machines perfectly competitive both technically and economically for small pressure ratios, even with high operating pressures and for all types of gas.

The simple and robust design of these machines and thus their low maintenance costs make them especially well adapted for conditions requiring high degrees of reliability and availability.



Burton Corblin designs installations in compliance with the varying standards applied throughout the world :

- *Specific standards of our clients in the chemical, petrochemical or energy sectors*
- *Standards or specific recommendations for certain gases (NACE)*
- *ISO*
- *Design standards for different equipments such as pressure vessels, heat exchangers, electrical equipment, etc... (CODAP, ASME, STOOMWEZEN, TEMA, BS, AD MERKBLÄTTER, NEMA, VDE, CENELEC, etc.)*
- *Standards for reciprocating compressors - API 618*

Power up to 1000 kW
Suction pressure up to 200 bar
Compression ratio up to 3/1
Head : up to 20 bar
Low speed (< 6000 rpm)
Flowrate up to 6000 actual m³/h
Simple and compact
Only one moving part : the impeller

Simplified start → Direct driven
Tolerant to foreign particles
No surge
Dry, clean and non-contaminating
Compression without leakage
Designed for heavy duty continuous operations
Low maintenance requirements.

DIAPHRAGM COMPRESSORS - DL SERIES

Being the inventor of the diaphragm compressor technology, Burton Corblin is proud to consolidate its position as the world leader in diaphragm compressors. It is by far the most versatile technology for compressing gases to medium and high pressures, especially those that are flammable, explosive, corrosive, radioactive or having low molecular weights.

The diaphragm compressor is "environment friendly". It can handle **high purity gases** with **no contamination and zero leakage**.

Power from 1.5 to 150 kW

Discharge pressure up to 3000 bar

Flowrate up to 250 actual m³/h

Compression is obtained by elastic deformation of 3 metallic discs clamped between 2 contoured plates

High level of gas purity

Absolutely leaktight. The seal and diaphragm integrity is continuously controlled

For all gases

Low and high pressure applications from vacuum to 3000 bar

High volumetric efficiency allowing a reduced number of stages

Wide variation of suction and discharge pressure allowable

Low noise level (78 to 85 dB(A))

Process gas wetted component materials selected to suit the application

Countless references throughout the world.



HYBRID PISTON/DIAPHRAGM COMPRESSORS HPD SERIES

The Burton Corblin unique hybrid compressors combine the oil free piston technology with the diaphragm technology on the same mechanical base. They allow relatively large flow rates at high discharge pressures. Thanks to the oil free design of all stages of compression, the need for a costly, sophisticated oil removing filter unit is eliminated.

Discharge pressure up to 400 bar

Flowrate from 50 to 450 actual m³/h

Equipment perfectly suited to industrial gases (bottle filling, HP storage, breathing gas mixtures)

3, 4 or 5 compression stages depending upon the application.



Burton Corblin worldwide network covers more than 60 countries. Manufacturing and packaging facilities are in Europe and Asia. Spare parts and service are available on all five continents. Burton Corblin direct exports represent nearly 70% of its production.



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