Burton Corblin worldwide network covers more than 60 countries. Manufacturing and packaging facilities are in Europe, the USA and Asia. Spare parts and service are available on all five continents.

Burton Corblin direct exports represent nearly 70% of its production.
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 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”.

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1971
Merger of Burton & Corblin

1995
Howden Group Plc/UK acquires BCSA and BCNA
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 fulfill the customers and operations requirements. Specialized 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 oxygen processes, Engineering, Chemical, Petrochemical, Oil and Gas, fuel gas feed, inert gas blanketing etc...).

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.

AUTOMATIC 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.

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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
- Reciprocating piston compressors up to 250 bar and 1300 kW
- Dry, clean and non-contaminating
- Compression without leakage
- Designed for heavy duty continuous operations
- Low maintenance requirements.

CUSTOMERS IN ALL MAJOR INDUSTRIES

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
- Blanketing process (dry Nitrogen)
- Petrochemical processes ED/EG, Paraxylene, PTA, MMA, 2-EN, TDI, Oxo Alcohols...
- Naphtazacking, oil refining processes ( FCC, RCC, HDS, Isomerisation, MTBE, BTEX...)
- Gas purification and regeneration
- Gas recovery and recompresion
- Boosting and recycling of hydrocarbon gases and hydrogen rich gas mixtures
- Molecular sieve regeneration in gas drying processes.

Power from 10 to 1300 kW
Discharge pressure up to 250 bar
Industrial packages for various gases (Air, H2, 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.

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
- ISO
- Design standards for different equipment such as pressure vessels, heat exchangers, electrical equipment, etc. (CDDA, ASME, STOOG-WENZEN, TEMA, BS, AD MERK-BLATTER, NEMA, VDE, CENELEC, etc.)
- Standards for reciprocating compressors - API 618

Quality is a long tradition at Burton Corblin. The company follows the ISO 9003 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.
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.

**Geometric and dimensionals 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**

**Advanced engineering and production means**

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 organizations
- medium term studies for continuous improvement of our product range.
- short term technical assistance which consists in fine tuning of compressors.

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1971
Merger of Burton & Corblin

1991
Burton Corblin strengthens its position on the Northern American Continent by opening its affiliated company Burton Corblin North America Inc. in Pennsylvania

1995
Howden Group Plc./UK acquires BCSA and BCNA

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 leak-tight. 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.
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