



DRY CARGO

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FEATURES

- Global Cement Trades
- Cement Handling
- Scandinavian Focus
- Bagging & FIBCs
- United Kingdom Regional Report

The world's leading and only monthly magazine for the dry bulk industry

Standard Industrie: pneumatic power is behind the success of its equipment

Standard Industrie (SI), founded in 1978 by Hervé Simoëns, is a specialist in the design and the manufacture of equipment to facilitate the flow and conveying of bulk material and powder products. Since that time, Standard Industrie has always striven to generate value by:

- ❖ providing innovative and tailor-made solutions;
- ❖ increasing production performance;
- ❖ reducing maintenance and production cost for its customers; and
- ❖ improving working conditions by ensuring for its customers a safe and clean working environment.

Present in over 90 countries through subsidiaries, the company (160 employees) operates in more than 60 business sectors such as cement plants, mines and quarries, steel works, power stations, incinerators, foundries, food industries, chemical industries, glass manufacturing plant, etc.

STANDARD INDUSTRIE PRODUCTS

SI built its success on its AIRCHOC® air cannon (ten patents registered since Hervé Simoëns designed the first generation in 1978) which is considered a world leader for unblocking material. In the last ten years, the company has developed a range of new products, including: LIFTUBE® conveyor optimization system, industrial vacuuming, mechanized cleaning of silos, scrapers, rubber conveyor buckets.

AIRCHOC® AIR CANNON

The AIRCHOC® air cannon is a pneumatic unblocking unit, specially designed to break up the arches and funnels which form in storage silos and hoppers. Its scope of application has been broadened during the past 30 years to include the cleaning of build-ups in thermal processes such as cement or lime works, steel works and incineration plants. AIRCHOC® air cannons can also be certified ATEX area 20 for use where there are risks of explosion. The operating principle of the AIRCHOC® air cannon consists of using a quantity of compressed air, the volume of which varies between 1 and 400 litres (0.04 to 14.13 cubic feet) depending on the type of AIRCHOC® used. This quantity is released instantaneously into the storage silo through a large outlet pipe, directly connected to the storage unit or where the blockage has occurred. This creates a powerful air shock-wave aimed directly into the material, due to the instant release of the compressed air.

There is a wide range of valve mechanisms and pressure tanks, which enables SI to recommend the best possible and personalized solution for any build-up or clogging problems. During the previous years SI has also upgraded its air cannon by designing the fifth AIRCHOC® generation. More powerful still



(at equivalent volume), quieter and safer but also more robust and compact, this new AIRCHOC® 5 is recognized as an optimum solution for these material flow problems, whilst at the same time more energy efficient (compressed air energy).

This equipment is available in both a high temperature and as a standard version.

The high-temperature version is specially designed to treat problems encountered in areas where the temperatures are high such as in cement works, lime plants, and incinerators.

The standard version is intended for applications involving silos, hoppers, chutes, piping for any kind of process and material in foundries and in ready mix concrete plants.



AIRCHOC at the CCI harbour in Calais (France).

CLOGGING PROBLEMS IN SILOS AND HOPPERS CAN INCLUDE

- ❖ loss of production: dead stock can represent 20% to 60% of the volume of the silos and hopper;
- ❖ loss of capacity generating functioning costs;
- ❖ deterioration of the quality of the material it contains;
- ❖ damaging the structure by hitting with a hammer to unplug the container;
- ❖ significant clean-up and maintenance costs; and
- ❖ safety problems: cleaning silos can be labour-intensive and dangerous, especially when the technique involves operators going inside the silo to clean it.

AIRCHOC® ADVANTAGES

- ❖ powerful unblocking without structural damage;
- ❖ 100% of storage capacity recovered;
- ❖ can be used on any kind of structure whether made of steel, concrete, stainless steel, aluminium or plastic;
- ❖ efficient on all of types of bulk materials stored;
- ❖ firing sequences, tailor-made and easily set up;
- ❖ simple and user-friendly technique;
- ❖ easy to maintain;
- ❖ quick return on investment;
- ❖ safe to use; and
- ❖ extremely reliable.



AIRCHOC at the CCI harbour in Calais (France).

AIRCHOC® ACCESSORIES

- ❖ blowpipes and nozzles;
- ❖ hanging devices;
- ❖ safety and control system;
- ❖ filters and lubricators unit;
- ❖ automatic control systems;
- ❖ AIRCHOC® blow pipe isolators;
- ❖ Airsafe; and
- ❖ air compressor and buffer vessels.