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Machines, Automatic

U.S. Bel - Tyne Automatic Bag Openers

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REPRESENTATIVE USERS LIST

ASBESTOS-CEMENT

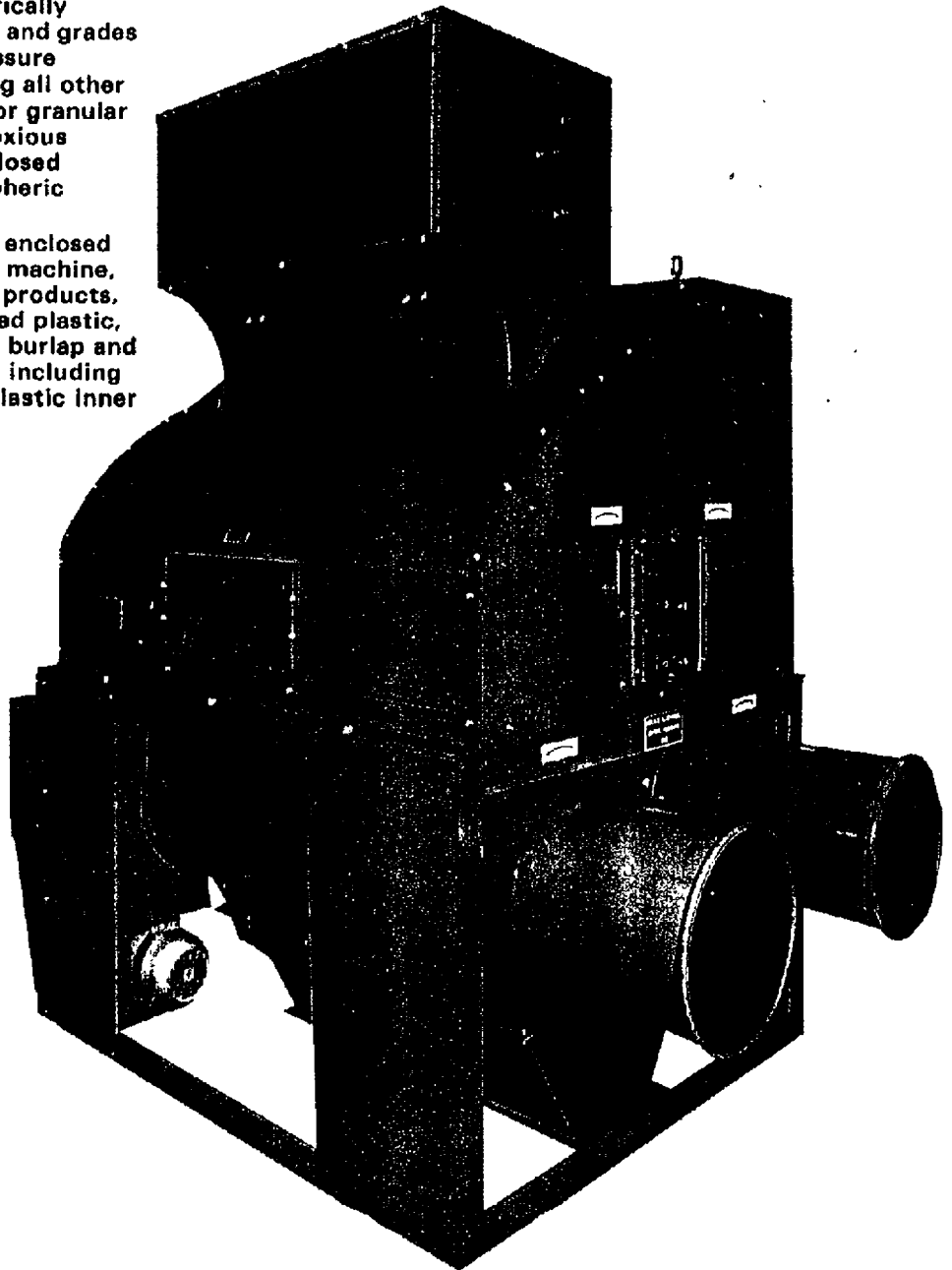
<u>COMPANY NAME</u>	<u>COUNTRY</u>	<u>PRODUCT</u>
Asbestona-Harderwijk	HOLLAND	Asbestos
Ashai Asbestos Co., Ltd.	JAPAN	Asbestos
B. P. Aquasoal	U.K.	Asbestos
Bahrain Asphalt Est.	BAHRAIN	Cement
Capco Ltd.	U.S.A.	Asbestos
Cape Universal, Ltd.	U.K.	Asbestos
Cassiar Asbestos	CANADA	Asbestos
Celotex Corp. (Ohio)	U.S.A.	Asbestos
Dansk Eternit	DENMARK	Asbestos
Dow (Fluor)	KOREA	Asbestos
Dow Chemicals (Michigan)	U.S.A.	Asbestos
Dow Chemicals (Texas)	U.S.A.	Asbestos
Durasteel, Ltd.	U.K.	Asbestos, Cement
Eternit	U.K.	Asbestos
Eternitror	SWEDEN	Asbestos
Eternit BERLIN	GERMANY	Asbestos
Eternit	BELGIUM	Asbestos
Ferodo	ITALY	Asbestos
Flintkote Co.	U.S.A.	Asbestos
Galfer	ITALY	Asbestos
General Motors Overseas	U.S.A.	Asbestos
Garlock	U.S.A.	Asbestos
Hardies	AUSTRALIA	Asbestos
Hatcheck	AUSTRIA	Asbestos
Hyderabad Asbestos Cement Co.	INDIA	Cement
Interholm, Ltd.	U.K.	Asbestos, Cement
Kettaneh	GHANA	Asbestos, Cement
Lake Asbestos	CANADA	Asbestos
Johns-Manville ONTARIO	CANADA	Asbestos
Nicolet, Inc. (Pennsylvania)	U.S.A.	Asbestos
Norcem	NORWAY	Asbestos
S.A.F.I.D. Torino	ITALY	Asbestos
T.A.C. Manchester	U.K.	Asbestos
T.A.C.	NIGERIA	Asbestos
Tunnel Cement	U.K.	Asbestos, Cement

BEL-TYNE

fully automatic Bag Slitter

The Bel-Tyne automatic bag slitting machine has many unique design features, and is the only fully automatic machine specifically designed to open all types and grades of pressure and none pressure packed asbestos, including all other types of bagged powder or granular materials of a dusty or noxious nature, within a fully enclosed system, to reduce atmospheric contamination.

The fully automatic, fully enclosed bag opener and emptying machine, is suitable for all noxious products, packed in either, reinforced plastic, poly woven bags, hessian, burlap and multi-walled paper sacks, including combined variants with plastic inner liners.



The Bel-Tyne fully automatic bag opening system

improves working conditions and reduces atmospheric pollution

General method of operation

Bags are loaded into the receiving hopper by conveyor. On entering the machine, the bags are automatically centralised between the retractable spiked rollers, which self-adjust to the differing bag sizes and grip the bag, drawing it onto the high speed reciprocating cutter which is independently driven. The bag is cut completely in half lengthways, to ensure maximum discharge of material. As the bag continues through the machine, the two separate halves are then drawn around the rollers, away from the main material chute and at a specific point, the spikes retract to allow the bag halves to eject into the twin automatic bag-compacting units, located either side of the material chute. These units operate on a continuous basis pushing the ejected bag halves into either single or extended plastic tubes, which are placed over the outlet bezels, suitable bag lengths can then be tied off as required. The automatic bag compacting units also incorporate a unique design feature, which allows any residue material attached to the discarded bag halves, to return to the central material chute, while being compacted.

The slitting dispensing of the bags contents and the disposal of the discarded bag halves, is carried out in a completely enclosed system on a continuous basis, thereby speeding the bag emptying operation, and reducing to a minimum, the health hazard of operators breathing harmful dust from the bag contents.

Special features

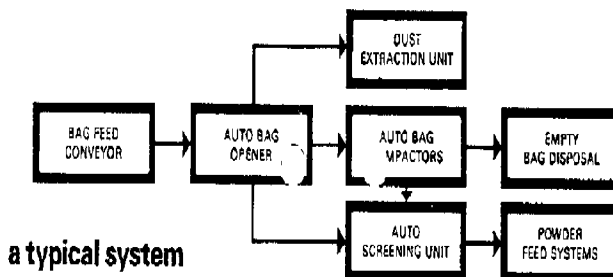
Fully automatic
Automatically adjusts to differing bag sizes
Accepts bags irrespective of bag position
Discarded bag halves automatically ejected into automatic compacting units
Opens all types of bag materials, i.e. plastic, poly-woven bags, multi-walled paper, hessian (jute), burlap, sacks including combined variants with plastic inner liners
Elimination of empty bag handling
Fully enclosed system for use in dust controlled environment
Bel-Tyne unique design ensures maximum discharge of bag contents
No agitation of bag content
No pneumatics

Optional extras

Bag feed conveyors
Material screw conveyors
Automatic screening units
Dust extraction units
Material vacuum or blowing systems
Asbestos fluffing machines
Contact part of stainless steel construction
Complete electrical control systems
Bel-Tyne can offer complete installation and planning in service for plant layout
Non standard motors can be supplied to customer requirements

List of materials handled

ASBESTOS PRESSURE NON-PRESSURE PACKED,
ALL GRADES AND TYPES
ALUMINIUM SULPHATE
AMMONIUM BICARBONATE
AMMONIUM PHOSPHATE
CEMENT
CALCIUM CARBONATE
CALCIUM CHLORIDE
CELLULOSE
CLAYS
COAL DUST
COCOA
COBALT SULPHATE
COPPER SULPHATE
CARBON BLACK
DIATOMITE
FLOUR
FLUX MIXTURE
GLASS POWDER MIX
KIESELGUHR
MALT
MAGNESIUM OXIDE
MILK POWDER
POLYMER GRANULES
PEPPER & SPICES
POWDER RESINS
PERLITE
RICE
SUGAR
SAND
TANNING POWDER
TEA
TALCUM POWDER
INCLUDING A WIDE RANGE OF OTHER CHEMICALS,
POWDERS ETC



Asbestos installation by courtesy of T.A.C. Ltd



Electrical control panel

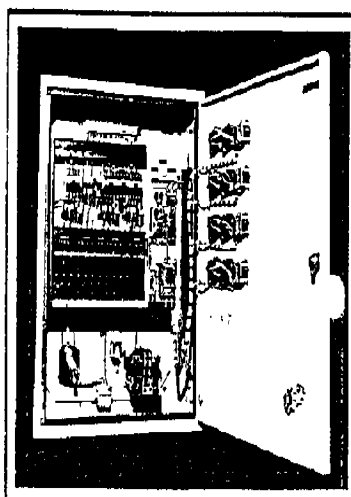
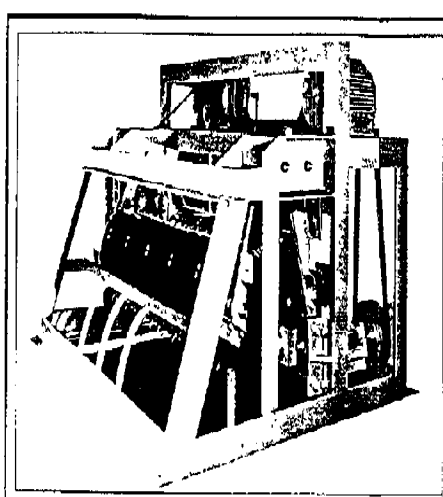


Illustration of machine construction



Asbestos re-fluffing machine incorporating asbestos pre-breaker roller



Mechanical data

Solid robust all metal construction.
Extensive use of standard mechanical components.
All electric operation.
Simplified control equipment reducing chances of failure.
Unique reciprocating cutting and self scavenging action.

Operational features

Insensitive to bag position.
Automatically adjusts to differing bag thickness.
Designed to meet most stringent dust control regulations.
Simple principle of operation with positive discharge of materials and ejected bag halves.
Complete isolation of machine operator from bag opening.

Production throughput rate

Powder and granule applications: up to 10 bags per minute depending on bag size and free flowing characteristics of bag contents.
Asbestos applications up to 4 bags per minute depending on degree of pressure packing, type and grade of asbestos fibre.

Bag sizes

The machine will accept bags up to (48") 1219 mm long x (12") 305 mm depth by (40") 1016 mm wide.

Technical specification

Knife drive motor type (A) (4 hp) 3 kw 50 Hz 380-440V.
Knife drive motor type (G) (3 hp) 2.2 kw 3 ph 50 Hz 380-440V.

Roller drive motor (0.25 hp) 0.19 kw D.C. 240 volts single phase 50 Hz.

Roller motor drive torque limiter.

Automatic bag compacting motors 2 off (2 hp) 1.5 kw 0.3 ph 0.50 Hz 380-440V.

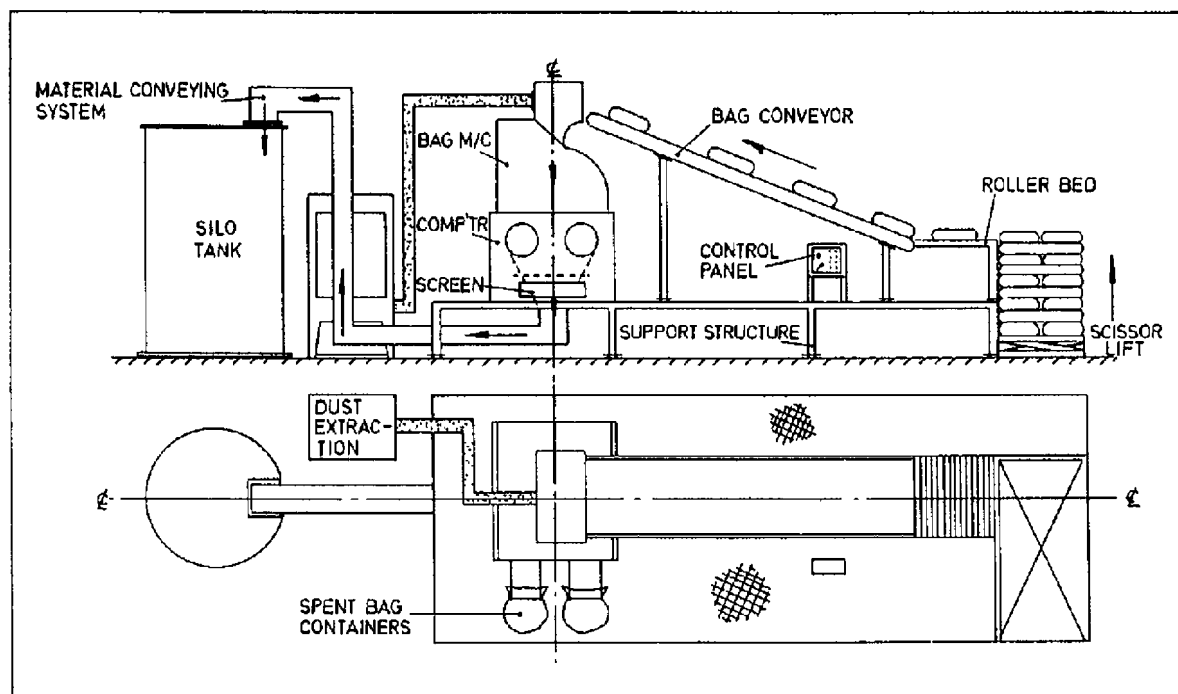
Automatic bag splitter and auto compacting units.

Dimensions: Height (8') 2433 mm x (5' 0½") 1543 mm wide x (4' 6½") 1380 mm depth.

Weight: Approx 1670 kg nett.

Our policy is one of continuous improvement and we reserve the right to make changes to the specification as they are incorporated in production

Typical plant layout



BEL-TYNE

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