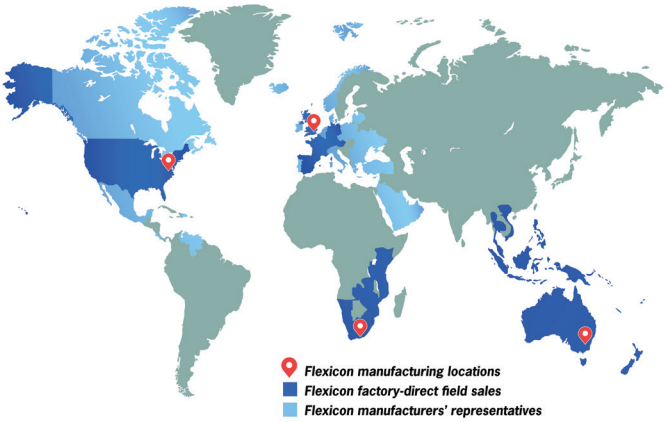
FLEXICON CONFIGURATIONS



Automated Bulk Bag Conditioner with Bag Piercer, Flexible Screw Conveyor

TFC25-256



flexicon®

USA
FLEXICON CORPORATION
Tel: +1 610 814 2400
E-mail: sales@flexicon.com
Web: www.flexicon.com

UK
FLEXICON (EUROPE) LTD
Tel: +44 1227 374710
E-mail: sales@flexicon.co.uk
Web: www.flexicon.co.uk

AUSTRALIA
FLEXICON CORPORATION
(AUSTRALIA) PTY LTD
Tel: +61 7 3879 4180
E-mail: sales@flexicon.com.au
Web: www.flexicon.com.au

SOUTH AFRICA
FLEXICON AFRICA (PTY) LTD
Tel: +27 41 453 1871
E-mail: sales@flexicon.co.za
Web: www.flexicon.co.za

SPAIN
FLEXICON EUROPE SPAIN
Tel: +34 930 020 509
E-mail: ventas@flexicon.es
Web: www.flexicon.es

FRANCE
FLEXICON EUROPE SAS
Tel: +33 7 61 36 56 12
E-mail: ventes@flexicon.fr
Web: www.flexicon.fr

GERMANY
FLEXICON EUROPE GmbH
Tel: +49 173 900 78 76
E-mail: vertrieb@flexiconeurope.de
Web: www.flexicondeutschland.de

SINGAPORE
FLEXICON SINGAPORE PTE LTD
Tel: +65 6778 9225
E-mail: sales@flexicon.com.sg
Web: www.flexicon.com.sg

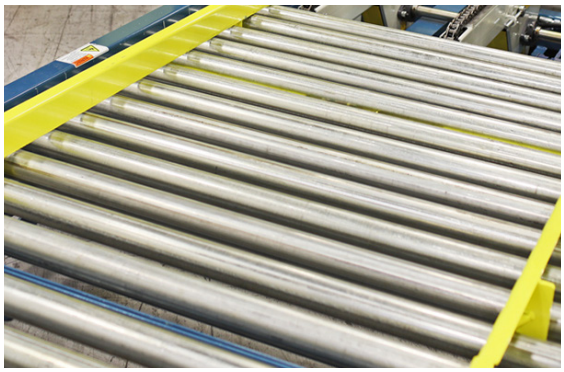
INDONESIA
FLEXICON INDONESIA
PROCESS SOLUTIONS
Tel: +62 81 1103 2400
E-mail: sales@flexicon.co.id
Web: www.flexicon.co.id

Automated Bulk Bag Conditioner with Bag Piercer, Flexible Screw Conveyor

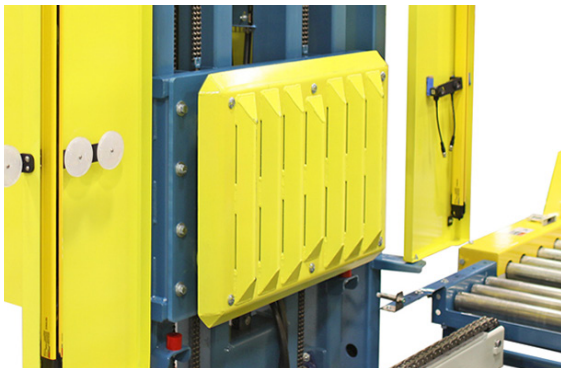


This automated Flexicon system delivers reliable processing of bulk materials that have solidified during shipment or storage. Designed to meet the demands of fast-paced process environments, it minimizes manual intervention and allows consistent material flow under challenging operating conditions.

Palletized bulk bags filled with agglomerated material are placed on a powered roller conveyor, which feeds the bags one at a time into the Flexicon BLOCK-BUSTER® Bulk Bag Conditioner. The conditioner's hydraulically actuated steel plates press against the sides of the bulk bag, loosening material inside the bag that has hardened. For thorough conditioning, the plates automatically reposition to apply pressure at three elevations along the bag's height. The conditioning sequence can be programmed for multiple cycles, allowing repetitively applied force based on the characteristics of the material being processed.



When the conditioning cycle is complete, the bag exits the conditioner onto an accumulating conveyor. Photo electric sensors mounted on the conditioner frame automatically re-activate the powered roller conveyor, advancing the next palletized bag into position. This automated sequencing reduces idle time between cycles and maintains a steady flow of material through the system without requiring constant operator oversight.



The conditioned bags can be removed by fork truck or plant hoist and suspended above the bulk bag piercer. As the bag is lowered into position, multiple piercing blades mounted inside the hopper penetrate the bag's base, initiating material discharge. A rubber membrane seals the bag's bottom to the hopper, minimizing spillage. The hopper is sized to accommodate the full contents of standard bulk bags and incorporates pneumatically actuated and mechanical flow-promotion devices mounted on the sides and bottom to ensure consistent, uninterrupted material flow into the flexible screw conveyor.



The screw conveyor consists of a rugged steel spiral enclosed in a polymer outer tube, enabling it to convey free-flowing materials as well as those that tend to pack, cake or smear. Driven by a powerful electric motor mounted above the material discharge point, the screw prevents material contact with bearings or seals. This design promotes smooth, consistent, dust-free transfer from the hopper through the discharge adapter to downstream processing equipment.

USA
FLEXICON CORPORATION
Tel: +1 610 814 2400
E-mail: sales@flexicon.com
Web: www.flexicon.com