

PRODUCT CONFIGURATIONS



AA-0700

Bag Dumping System with Glove Box, Bag Compactor, Flexible Screw Conveyor



USA

FLEXICON CORPORATION
2400 Emrick Boulevard
Bethlehem, PA 18020-8006
USA
Tel: 1 888 FLEXICON
(1 888 353 9426)
Tel: 1 610 814 2400
Fax: 1 610 814 0600
E-mail: sales@flexicon.com
Web: www.flexicon.com

UK

FLEXICON (EUROPE) LTD
182 John Wilson
Business Park
Harvey Drive
Whitstable, Kent CT5 3RB
United Kingdom
Tel: +44 (0)1227 374710
Fax: +44 (0)1227 365821
E-mail: sales@flexicon.co.uk
Web: www.flexicon.co.uk

SPAIN

FLEXICON (EUROPE) LTD
Sicilia 253, 4º, 1ª
08025 Barcelona
Spain
Tel: +34 647 670 302
E-mail: ventas@flexicon.es
Web: www.flexicon.es

SOUTH AFRICA

FLEXICON AFRICA (PTY) LTD
P.O. Box 10450
Linton Grange
Port Elizabeth 6015
South Africa
Tel: +27 41 453 1871
Fax: +27 41 453 1670
E-mail: sales@flexicon.co.za
Web: www.flexicon.co.za

CHILE

FLEXICON CHILE LTD
Avenida Andres Bello #1051
Oficina #1602
Providencia
Santiago
Chile
Tel: +56 2 2415 1286
Fax: +56 2 2415 1393
E-mail: ventas@flexicon.com
Web: www.flexicon.com

AUSTRALIA (SYDNEY)

FLEXICON CORPORATION
(AUSTRALIA) PTY LTD
Suite 5, Level 3
45-47 Hunter St.
Hornsby, NSW 2077
Australia
Tel: +61 (0)7 3879 4180
Fax: +61 (0)2 9477 5548
E-mail: sales@flexicon.com.au
Web: www.flexicon.com.au

AUSTRALIA (BRISBANE)

FLEXICON CORPORATION
(AUSTRALIA) PTY LTD
78 Westgate Street
Wacol, QLD 4076
Australia
Tel: +61 (0)7 3879 4180
Fax: +61 (0)7 3879 4183
E-mail: sales@flexicon.com.au
Web: www.flexicon.com.au

SINGAPORE

FLEXICON SINGAPORE PTE
LTD
27 West Coast Highway
#02-22
Singapore 117867
Tel: +65 6778 9225
Fax: +65 6690 8850
E-mail: sales@flexicon.com.sg

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Bag Dumping System with Glove Box, Bag Compactor, Flexible Screw Conveyor

This Bag Dumping System with glove box, bag compactor and flexible screw conveyor (also known as a helix conveyor, screw conveyor, spiral conveyor or auger conveyor), isolates bulk material from the operator and plant environment throughout opening, dumping and compaction of bags, and the conveying of material downstream.

Bags are staged on a stainless steel tabletop and then transferred through a plastic strip curtain into a dumping enclosure comprised of a glove box, empty-bag chute and dust collector atop a receiving hopper.

The dust collector maintains negative pressure within the enclosure, preventing the escape of dust through the curtain, while containing dust generated during bag opening and dumping activities.

A bag infeed chute through the sidewall of the enclosure allows the operator to pass empty bags directly into the bag compactor, causing dust generated from compaction as well as dumping activities to be drawn onto the system's two filter cartridges.

An automatic reverse-pulse filter cleaning system releases short blasts of compressed air inside the filters at timed intervals causing dust build-up on the outer surfaces to fall into the hopper, conserving useable product. Filters are readily accessed by removing the interior baffle, and replaced rapidly using quick-disconnect fittings.

The compactor employs a large pneumatic air cylinder to compress bags into a removable bin that accommodates 50 to 80 bags. The main waste access door, and a flapper door within the bag infeed chute, are equipped with safety interlocks that prevent operation of the compactor unless both doors are closed.

The hopper discharges into an enclosed Flexicon flexible screw conveyor for dust-free transfer of a broad variety of products including free- and non-free-flowing materials from large pellets to sub-micron powders, including products that pack, cake, seize, smear, fluidise, break apart or separate, with no separation of blended products.



Dust generated from bag opening, dumping and compaction is isolated from the operator and plant environment by means of a glove box, dust collector and integral bag compactor with sealed infeed chute. An enclosed Flexicon flexible screw conveyor transfers material downstream at any angle, dust-free.



The operator is isolated from dust by means of a dumping hood comprised of a plastic strip curtain, glove box, empty-bag infeed chute, and dust collector atop a receiving hopper feeding an enclosed flexible screw conveyor.



An operator transfers empty bags from the glove box side of the enclosure through a bag infeed chute in the enclosure sidewall, drawing dust generated from bag compaction as well as dumping activities into the integral dust collection system.