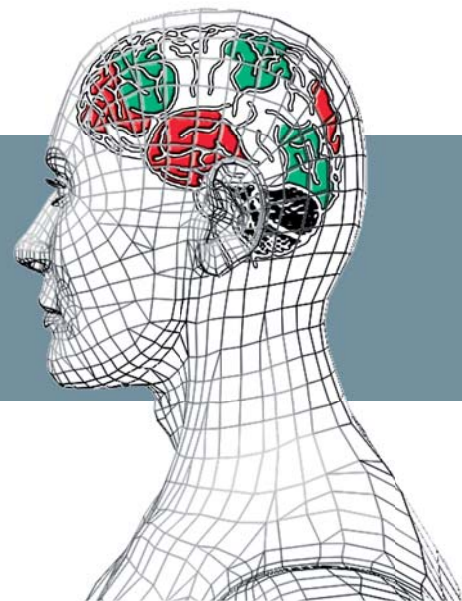




Drum Filling Systems



HECHT Technologie GmbH

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♦ Fax: +49 8441-8956-56

♦ Web: www.hecht.eu
♦ E-mail: info@hecht.eu



Bin filling stations

Check list for quotation

CHECK
LIST

PERSONAL DATA

Company: _____
Street: _____
Postal Code / City: _____
Project: _____
Contact person: _____
E-mail: _____
Phone: _____
Fax: _____



PRODUCT TO BE FILLED

PRODUCT DATA

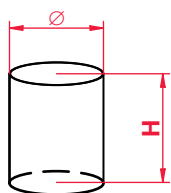
Product designation: _____ Temperature [°C]: _____
Bulk density [kg/l]: _____ Particle size [mm or "]: _____
Moisture content [% H₂O]: _____ Angle of repose: _____

PRODUCT CHARACTERISTICS

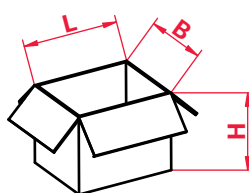
☐ freely flowing	☐ poorly flowing	☐ bridging
☐ dusty	☐ caking	☐ adhesive
☐ abrasive	☐ hygroscopic	☐ flushing
☐ toxic (OEL _____)	☐ chem. aggressive	☐ _____

BIN SIZE

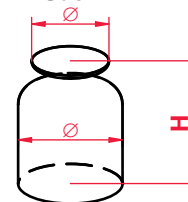
Drum



Carton



Sack



with Inliner: ☐ yes ☐ no

Inliner-Ø [mm]: _____

Length [mm]: _____

max. filling weight [kg]: _____

Outlet height of upstream equipment [mm]: _____

Food/Pharma-industry? ☐ yes ☐ no (Version GMP-compliant)



Bin filling stations

Check list for quotation

CHECK
LIST

TECHNICAL DATA

Electrical mains: [Volt] [ph] [Hz]

Explosion protection?: Protection classification: IP

Dedusting system available? ☐ yes ☐ no

Filling capacity [bin/h]:

Compressed air [bar]:

Film sealing? ☐ yes ☐ no

Sand blasting SA 2,5? ☐ yes ☐ no

upstream metering: ☐ yes ☐ no

Metering device:

Product compaction necessary?: ☐ yes ☐ no

Cone reduction necessary?: ☐ yes ☐ no

Calibratable version?: ☐ yes ☐ no

Weighing range:

Resolution:

Material:

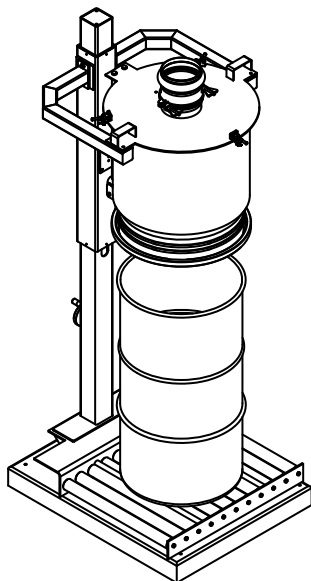
Material-parts with product contact:

Material-other parts:

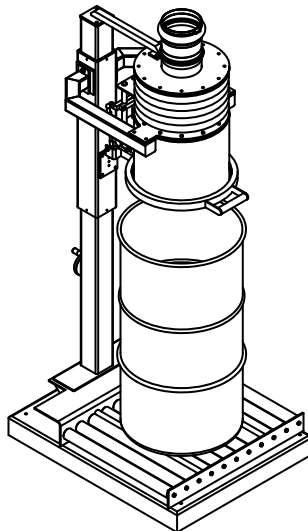
Transport system for bins - Roller conveyor: ☐ yes ☐ no

Transport system for bins - Conveyor belt: ☐ yes ☐ no

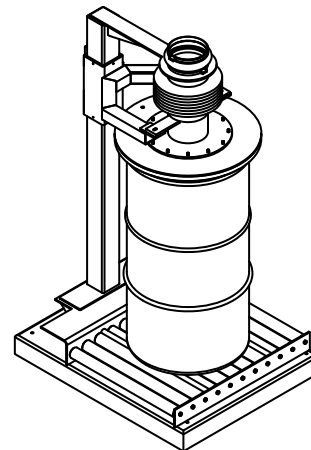
KB-F-ProClean®



KB-F-I



KB-S-I



TYPE

KB-F-ProClean®

KB-F-I

KB-S-I

Brief description

Filling of sacks and drums with open inliner and continuous liner

Filling of sacks and drums with open inliner

Filling of drums without inliner

Pharma+food

Industry design

Industry design

Adjustment to different drum sizes

Adjustment of filling head via clamping device or lifting spindle

Adjustment of filling head via clamping device or lifting spindle

Adjustment of filling head via clamping device

Height adjustment for filling head

Inlet adapter

Gaiter

Gaiter

Scales

Platform scales

Platform scales

Platform scales

Loading drum transport

Roller conveyor

Roller conveyor

Roller conveyor

Product compaction

Vibration table

Vibration table

Vibration table

Automatic drum connection

No

No

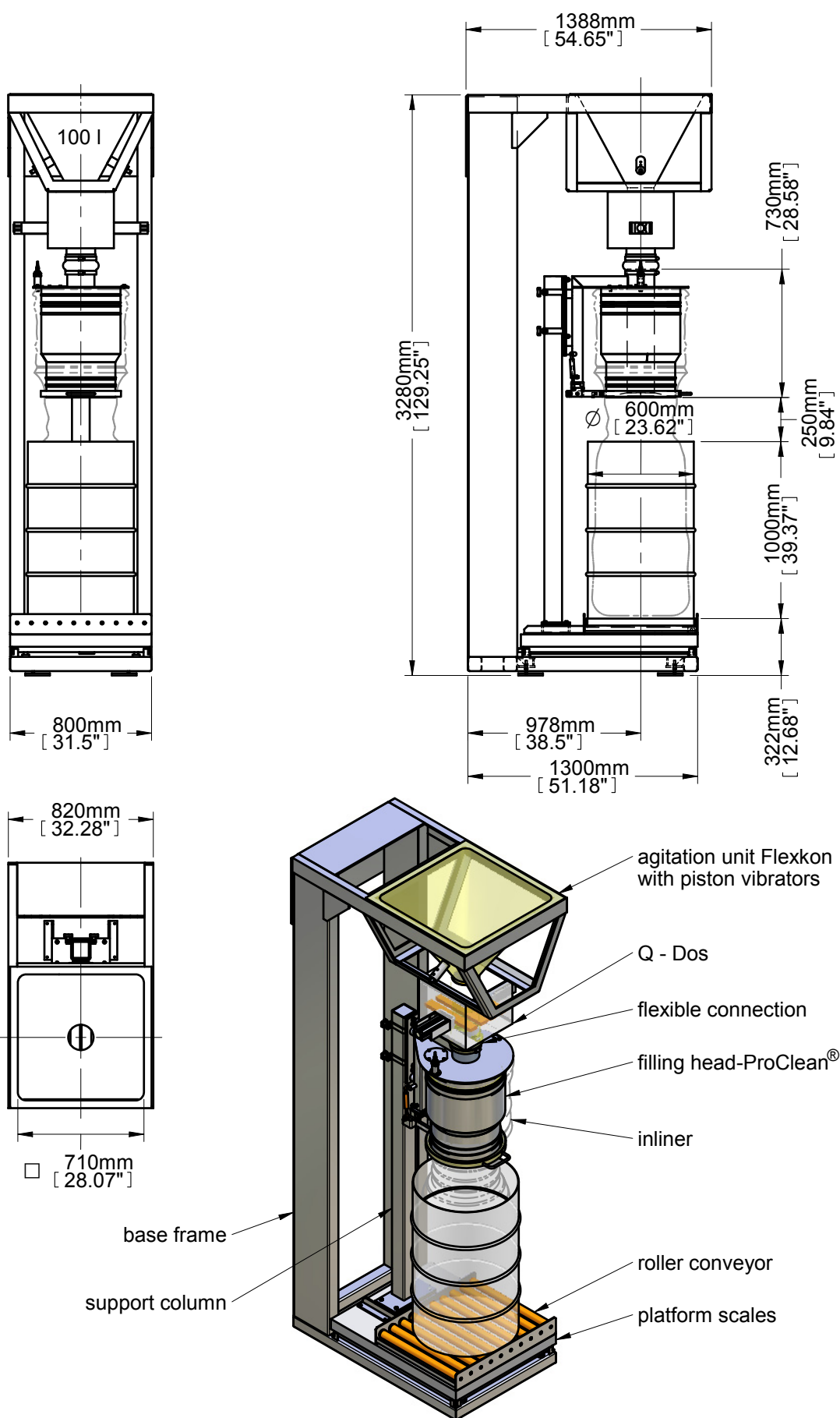
Yes

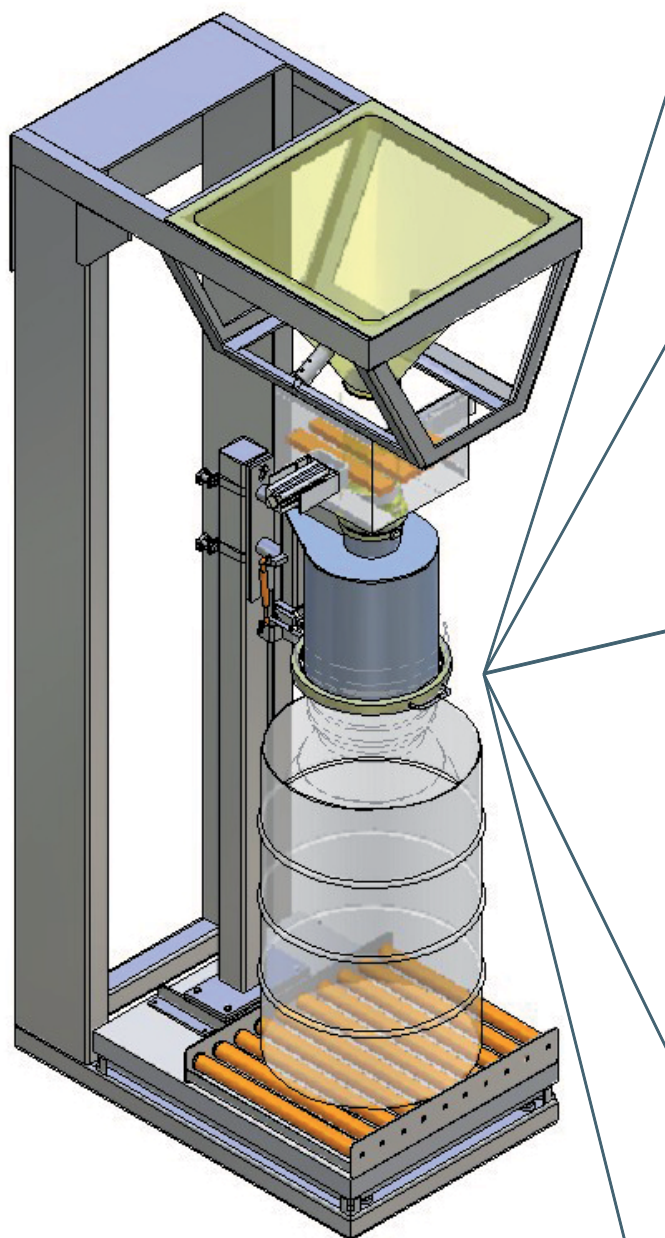


Filling system for small components with continuous liner technology - ProClean®

M-KB F ProClean® en

Revision 0





FILLING HEAD FOR SACKS



- ◆ with quick-action clamp



- ◆ with inflatable hose



- ◆ with counter ring for different inlet diameters

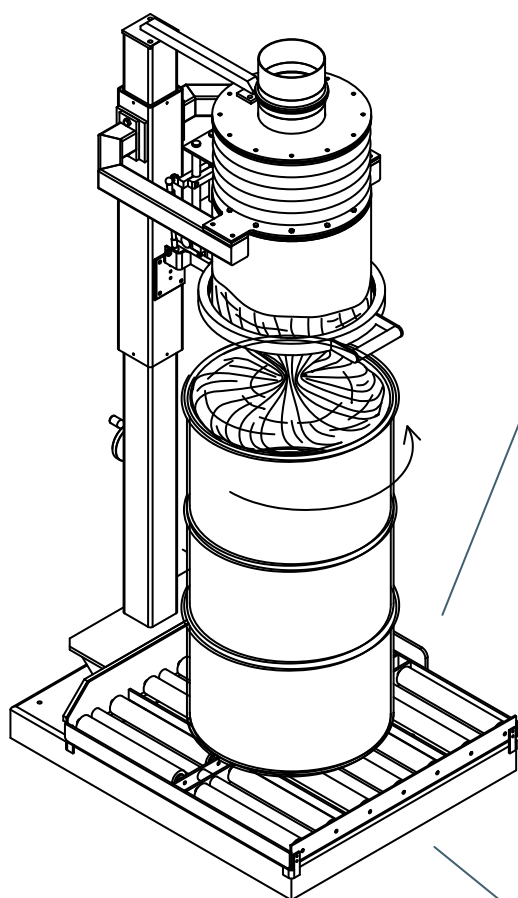
PRO CLEAN® FILLING HEAD FOR SACKS



- ◆ with counter ring and integrated inflatable seal

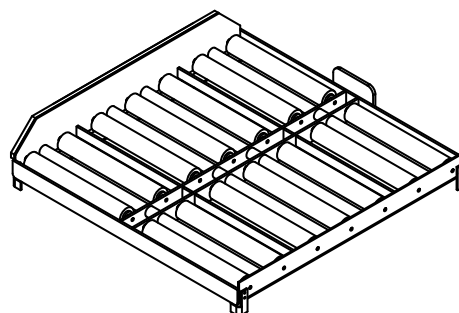


- ◆ with high Containment



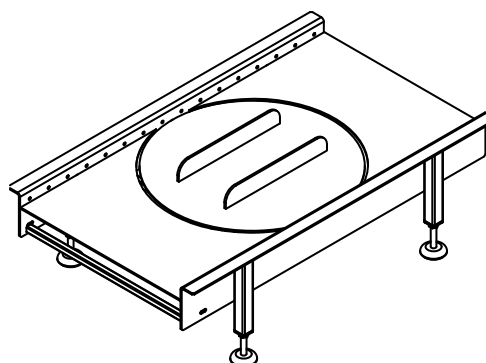
SPLIT ROLLER CONVEYOR

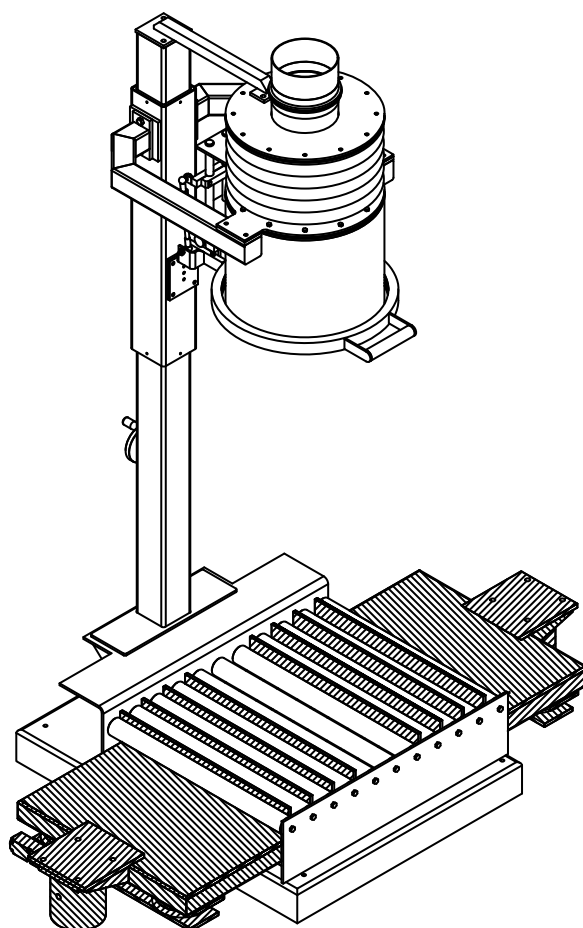
Manuel twisting for drums with inliner



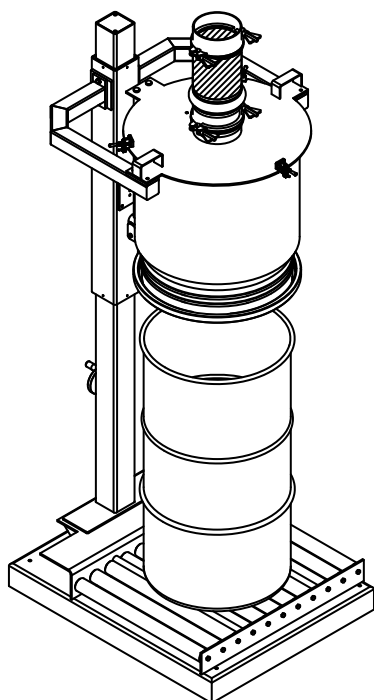
PNEUMATIC ROTARY PLATE

Automated twisting for sacks and drums with inliners

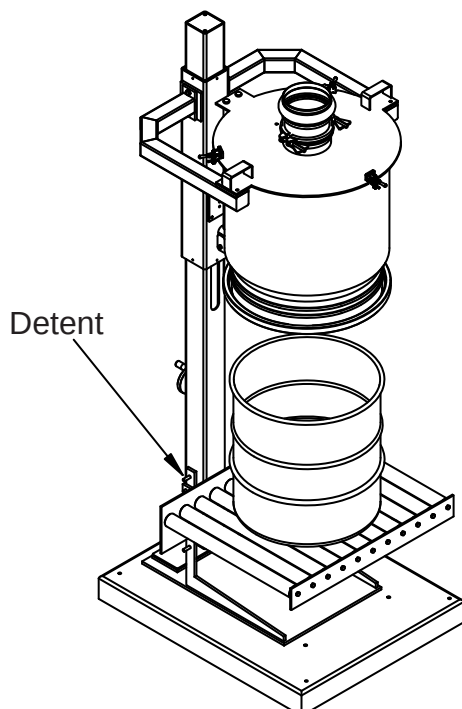




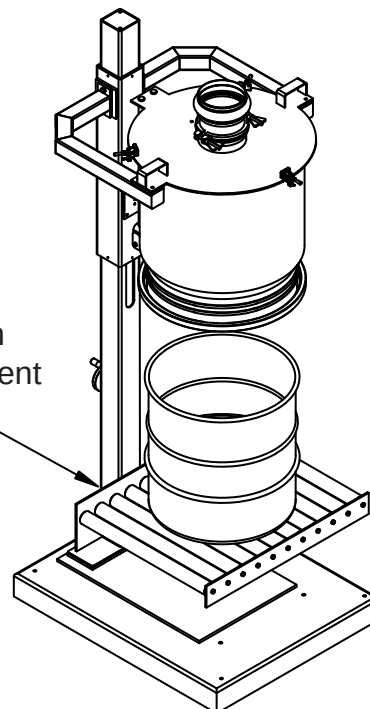
*COMPACTION PLATE WITH INTEGRATED
PNEUMATIC LIFTING DEVICE*



- ◆ Bin heights 600 - 1000 mm
- ◆ Height adjustment from the top using adapter tubes



motor-driven
height adjustment



- ◆ Bin heights < 600 mm
- ◆ Height adjustment from the bottom

Due to a special folding method a liner package with up to 50 m (special type with 80 m) of liner can be provided, centrally to the product outlet. The liner is pulled from the stock, flattened out against the inner side of the drum, inflated slightly and then filled with product.

During normal operation the filling is contamination-free. No crosscontamination occurs.

The changing of the liner stock is contamination-free.

The liner stock is reusable.

The liner is available as a folded package with antistatic material characteristics and FDA certificate or as electrically conductive black liner.

ACCESSORIES

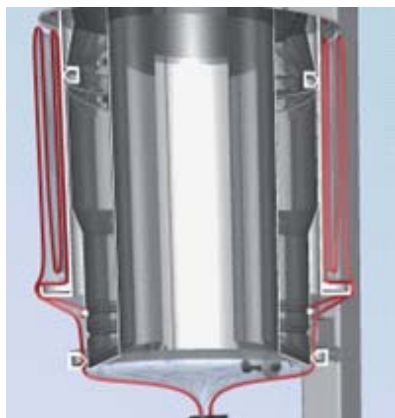


◆ liner package

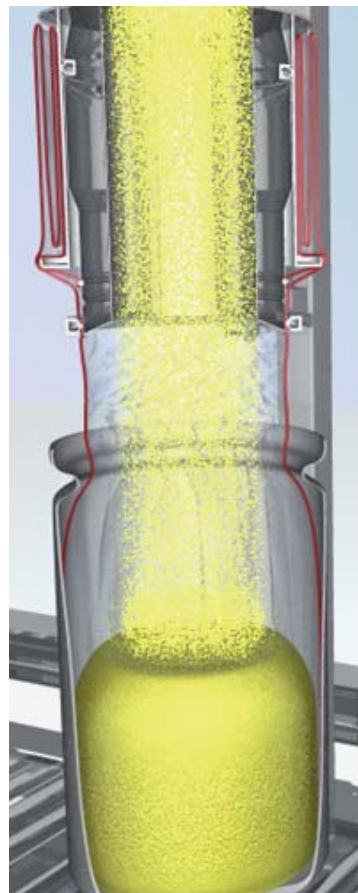


◆ Closing tool
(alternatively liner welding system)

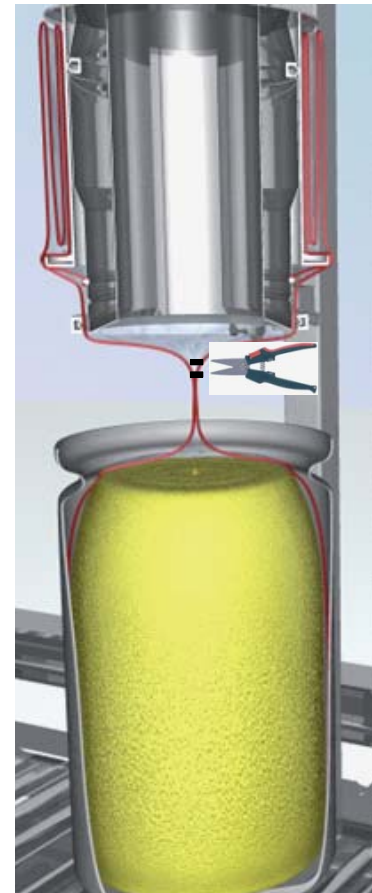
FILLING AND SEPARATING



starting position



Contained filling process



Contamination-free separating

EXAMPLE: *FILLING STATION FOR DRUMS WITH LINER*

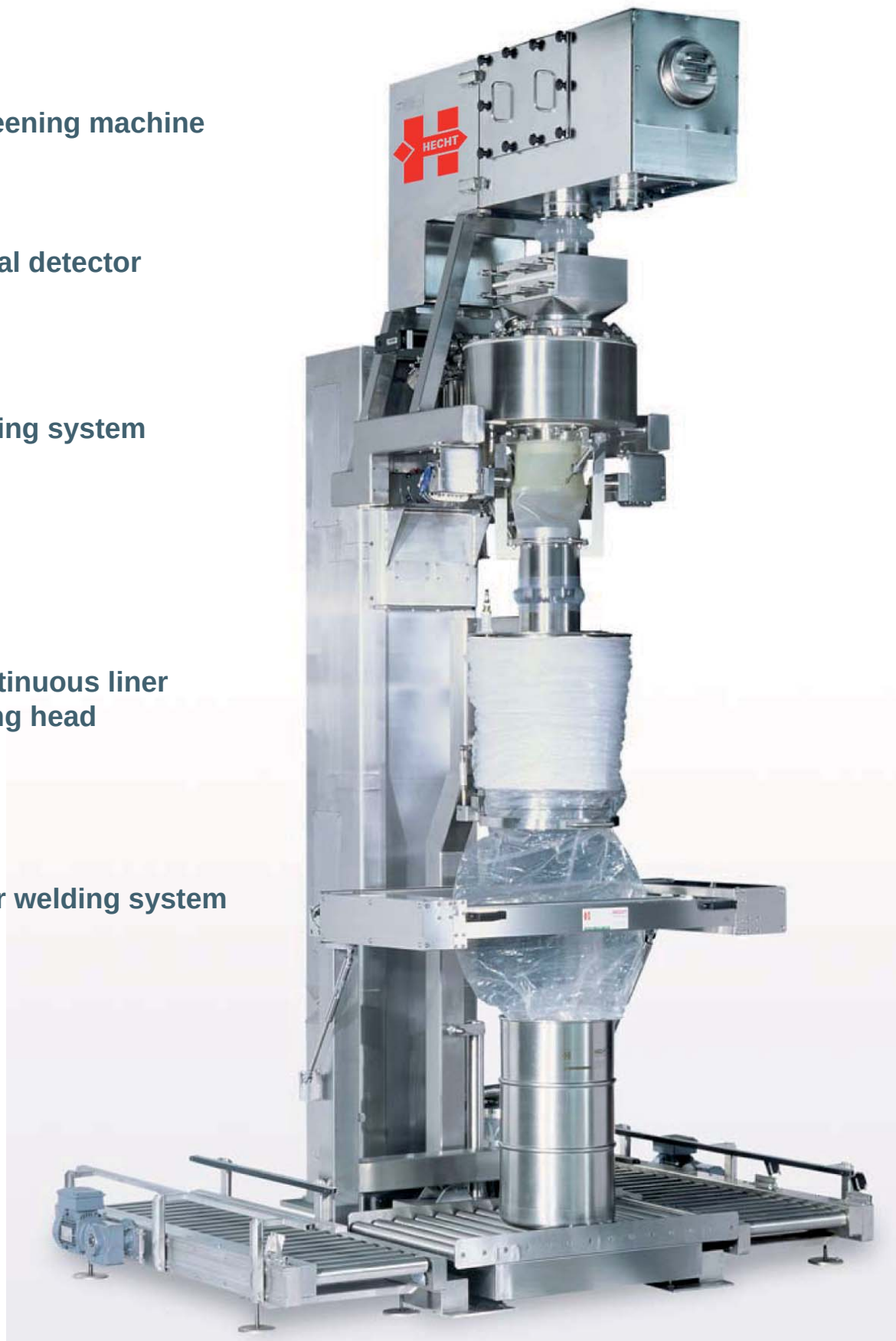
screening machine

metal detector

dosing system

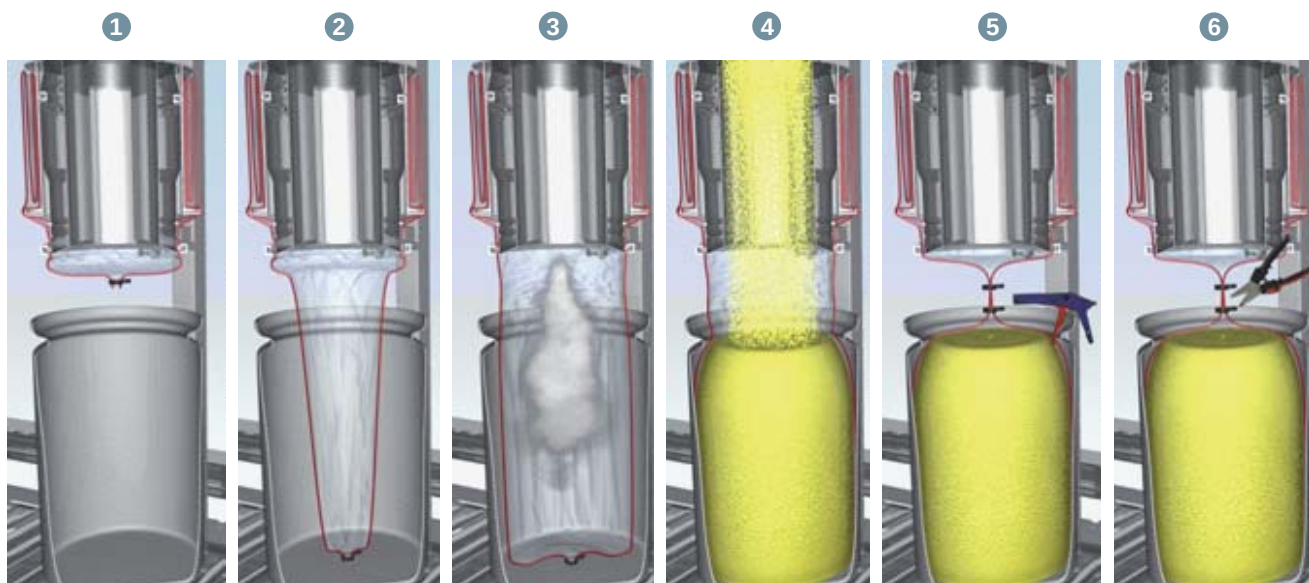
continuous liner
filling head

liner welding system



FUNCTIONAL DESCRIPTION USING LINER CLIPS

- ① Starting position.
- ② The liner is pulled down until reaching the drum bottom.
- ③ Inflating and inerting.
- ④ Filling.
- ⑤ Closing twice using the closing tool.
- ⑥ Cutting the liner in between the two clips.



FUNCTIONAL DESCRIPTION USING A LINER WELDING SYSTEM

- ◆ The liner is pulled down until reaching the drum bottom.
- ◆ Inflating and inerting.
- ◆ Filling.
- ◆ Starting the welding system.
- √ The welding system creates two weld seams and separates the liner between the two weld seams.

CONTAMINATION-FREE LINER STOCK CHANGE



1 Stock is empty.



2 Move the clamping ring into the lower groove fixing the liner end.



3 Pull down the hinged counter ring.



4 Remove the empty carrier.



5 Put a new liner package onto the carrier.



6 Fixate one end of the liner by a clamping ring in the upper groove.



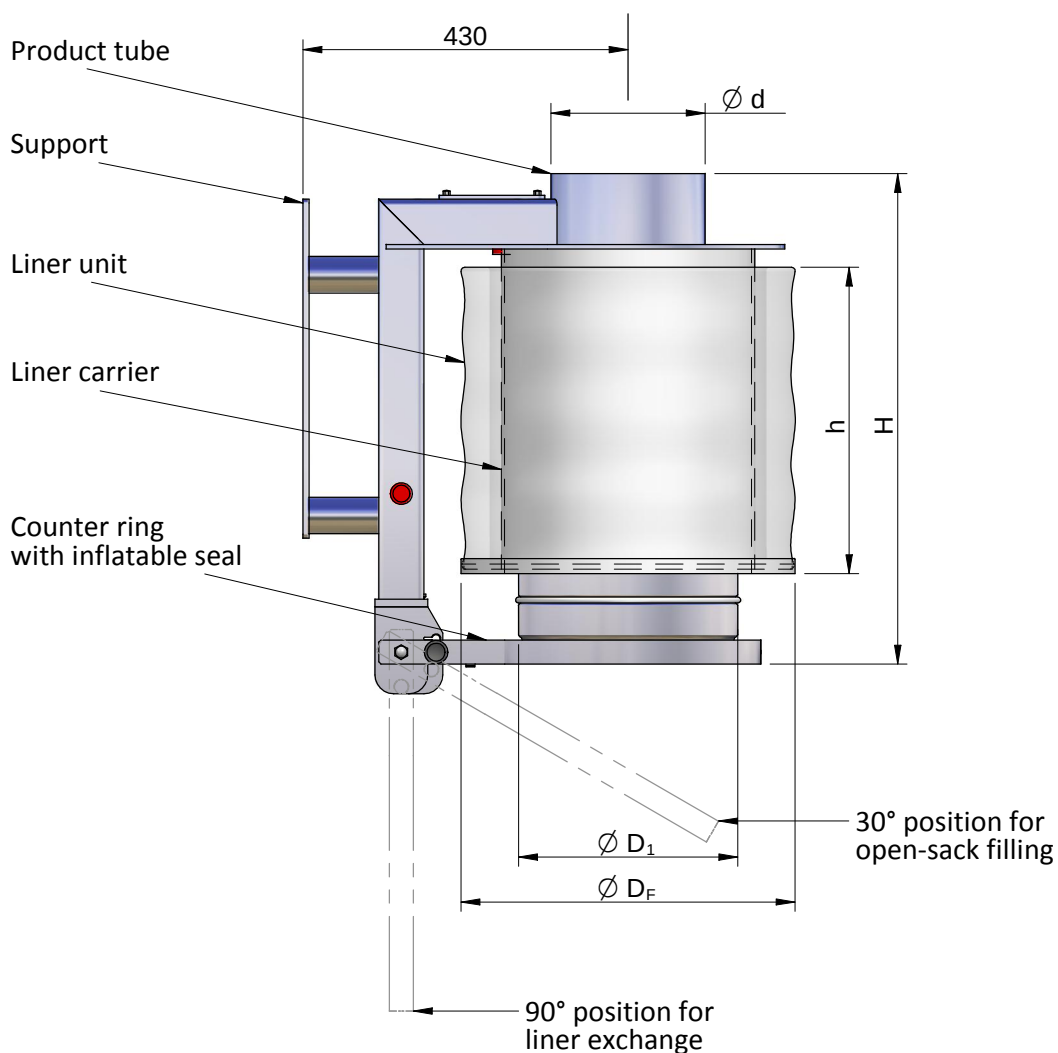
7 Pull down the other end of the liner and close it with the closing tool.



8 Remove the lower clamping ring and the old liner. Close twice.



9 Cut the liner in between the two clips.



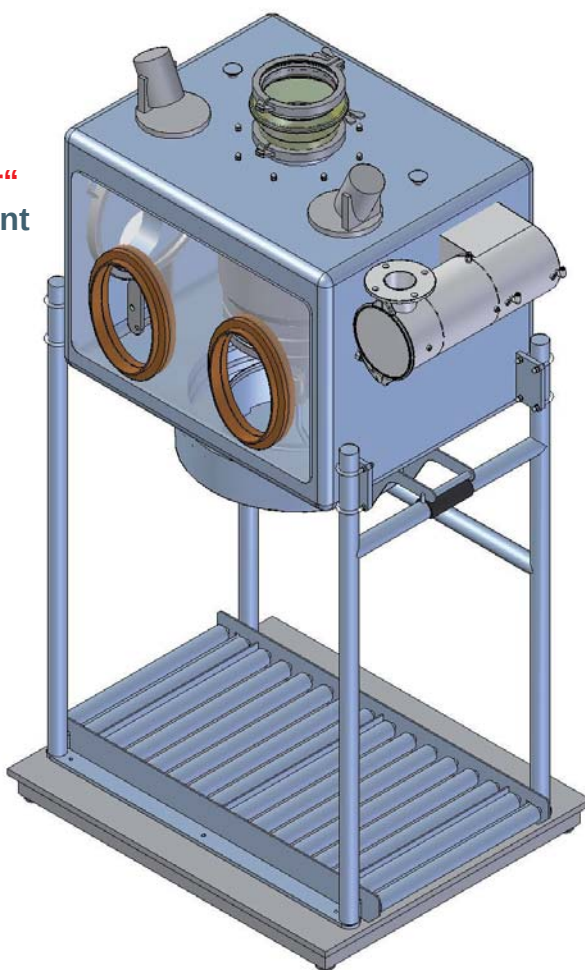
Type of liner	Ø Liner	Height of liner unit	Length of liner	Ø Diameter of connection	Ø Product tube	Total height
	Ø D _F mm	h mm	m	Ø D ₁ mm	Ø d mm	H mm
1C	320	400	50	175	max. 80	650
10C	320	250	30	175	max. 80	500
2C	445	400	50	290	max. 200	650
20C	445	250	30	290	max. 200	500
3C	510	400	50	365	max. 250	650
30C	510	250	30	365	max. 250	500
5C	620	400	50	470	max. 300	650
50C	620	250	30	470	max. 300	500

The Hecht „ProClean® High Containment Filler“ has been developed for the highest containment requirements when filling bins with powder and granules.

The innovative combination of isolator and endless liner technology guarantees maximum protection for operator and product.

Even when changing the bin and converting the station for CIP, the „ProClean® High Containment Filler“ is always closed.

Using this filling station developed by Hecht Technologie, you will be able to fill hazardous products into different vessels in every room in a safe, contamination-free and cost-efficient way.



FLEXIBILITY

- ◆ From drums to cartons: A variety of bins with liner can be used
- ◆ Filling of hazardous products in any room

SAFETY

- ◆ Leakage test of the primary liner
- ◆ Leakage test of the secondary liner
- ◆ Primary and secondary containment
- ◆ Double product protection
- ◆ Double operator protection
- ◆ Isolator in low pressure
- ◆ Automatic low pressure control
- ◆ Closed conversion for CIP

COST EFFICIENCY

- ◆ No need for clean room or laminar flow