Feige FILLING

A HAVER & BOECKER BRAND

FILLING SYSTEM INTEGRA®

Intuitive intelligence

e POWER



INTEGRA

Filling Performance for Growing Demands

As production processes become increasingly complex, the demands placed on filling technology continue to rise: greater performance, higher efficiency, and maximum process reliability. This is exactly what our INTEGRA filling machines are designed for.

Our fully automated filling solutions combine precision, powerful automation, and intelligent process control to create systems that are perfectly tailored to your production requirements. Whether canisters, pails, drums, or IBCs, INTEGRA provides the ideal platform for handling demanding filling applications with outstanding reliability and efficiency.

For us, however, filling is only one part of the bigger picture. We think beyond the individual machine and focus on the entire production process. Together with SOMMER GmbH, a specialist manufacturer of mixers, agitators, and processing systems, we combine our expertise to deliver comprehensive turnkey solutions. From raw material handling and storage to mixing, filling, palletizing, and load securing, every process step is seamlessly integrated and perfectly synchronized. One partner. One coordinated solution. One process chain designed for maximum performance.

The result is a future-ready production concept featuring seamlessly connected processes, perfectly matched components, and a scalable solution that grows alongside your business and its evolving requirements.
Discover INTEGRA and experience how advanced filling technology transforms into measurable production performance.

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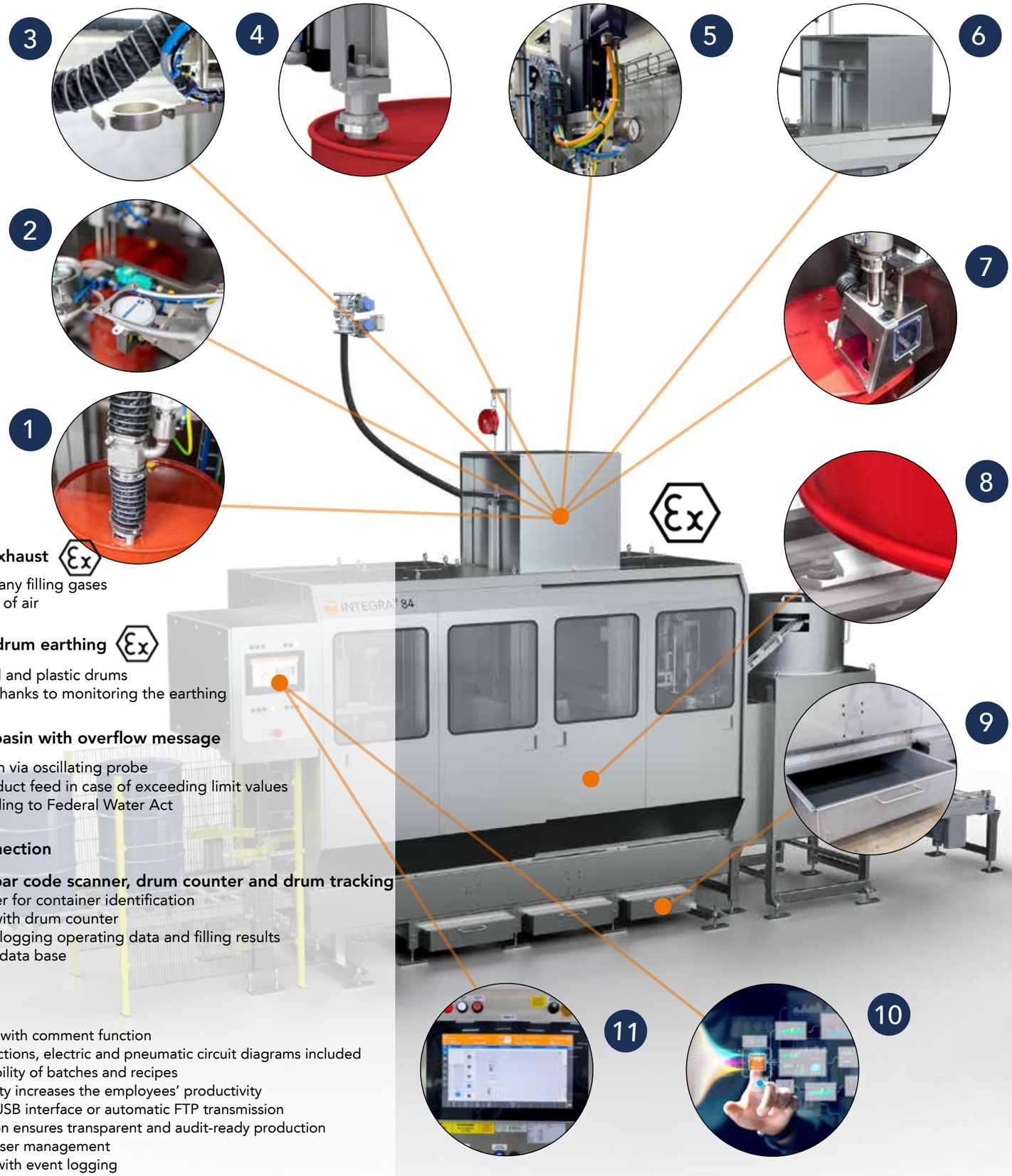

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FILLING

INTEGRA® 84

The drum filler INTEGRA® 84 is designed for the fully automatic filling of drums.

The drum filler INTEGRA® 84 is a highly modern system with four stations, considerably increasing the efficiency of filling. Steel and plastic drums between 5 L and 220 L can be processed. The processes are constantly monitored to guarantee a high quality and reliability. Part of this is monitoring the nominal torques automatically.

The INTEGRA® 84 automatic drum filler is also available in an ATEX-compliant design.



1 Inert gas pre-filling

- Inerting containers with e.g. nitrogen
- Monitoring the inert gas flow
- Leaking gas is reliably collected

2 Sealing and servo drum bunging system

- Gimbal-mounted and decoupled bunging head with encoder
- Automatic balancing of setting behaviour of plug seal
- Automatic balancing of bunghole mis-positions
- Integrated monitoring of bunging (wedged, motor over-revving)
- Torque up to 60 Nm
- Sealing of drums with automatically fed seal caps

3 Drip collecting device

- Automatic movement of a disposable/reusable cup under the filling lance
- Suitable also for sticky products
- Free of contamination due to disposable cup

4 Drum leakage test

- Integrated drum leakage test for empty drums and/or closure leakage test

5 ePOWER Variants option

- Electric opening cylinder
- Electric base height adjustment
- Electric lifting unit

6 Protective cabin

- Air exchange in the protective cabin through standard exhaust connections

7 Bunghole exhaust

- Safe exhaust of any filling gases
- Minimum intake of air

8 Automatic drum earthing

- Earthing of steel and plastic drums
- Safe operation thanks to monitoring the earthing

9 Collecting basin with overflow message

- Level limit switch via oscillating probe
- Closing the product feed in case of exceeding limit values
- Approval according to Federal Water Act

10 Digital connection

Data logger, bar code scanner, drum counter and drum tracking

- Bar code scanner for container identification
- Drum tracking with drum counter
- Data logger for logging operating data and filling results
- Data storage in data base

11 Web HMI

- Alarm help texts with comment function
- Operating instructions, electric and pneumatic circuit diagrams included
- Seamless traceability of batches and recipes
- Enhanced usability increases the employees' productivity
- Data export via USB interface or automatic FTP transmission
- Intuitive operation ensures transparent and audit-ready production
- FDA-compliant user management
- Digital logbook with event logging
- Web-based system

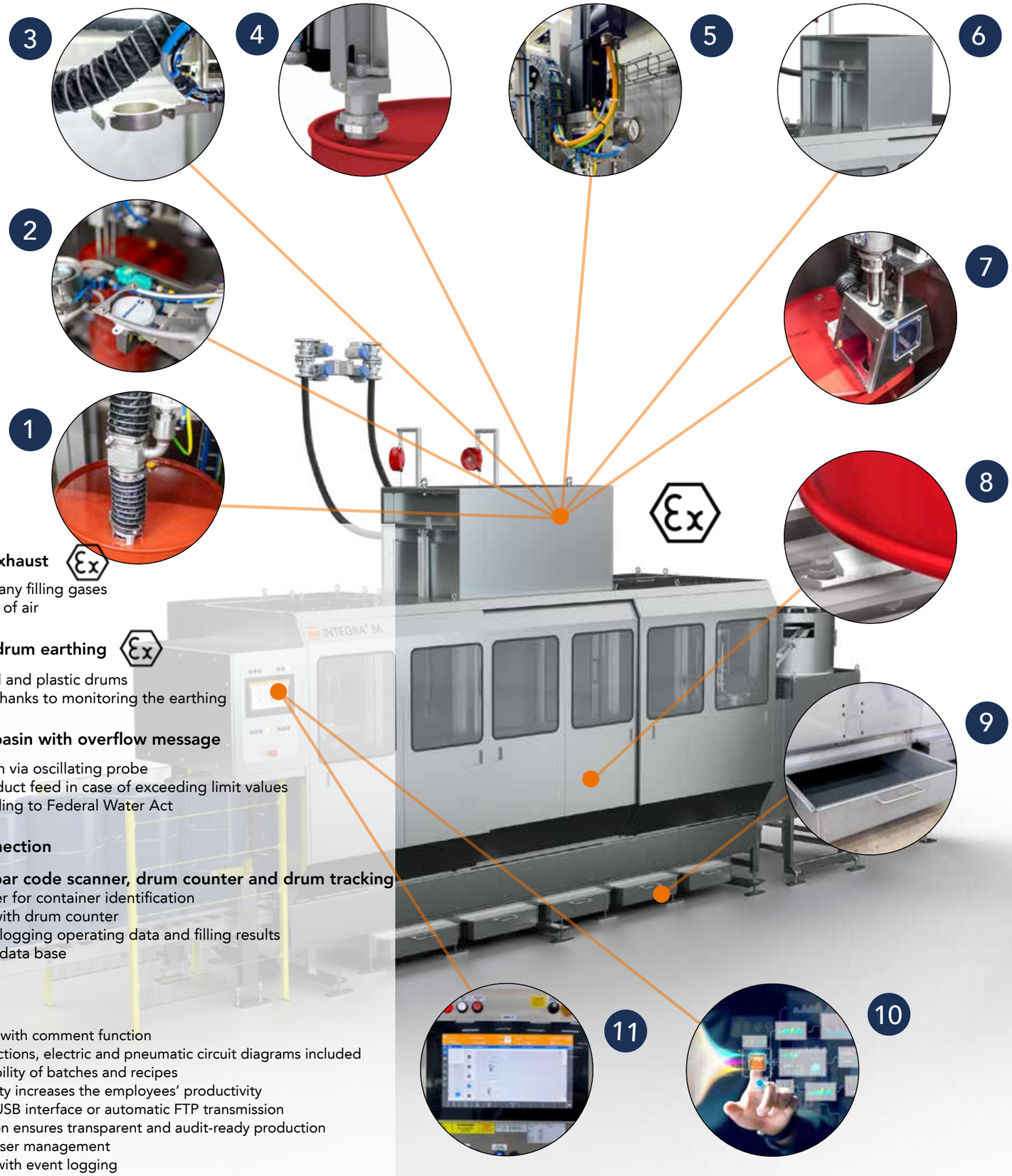
* **Fig. includes special equipment**

INTEGRA® 86

The drum filler INTEGRA® 86 is designed for the fully automatic filling of drums.

The drum filler INTEGRA® 86 with its six work stations fills the drums in double cycle mode in a highly efficient manner. Steel and plastic drums between 5 L and 220 L can be processed. The processes are constantly monitored to guarantee a high quality and reliability. Part of this is monitoring the nominal torques automatically.

The INTEGRA® 86 automatic drum filler is also available in an ATEX-compliant design.



1 Inert gas pre-filling

- Inerting containers with e.g. nitrogen
- Monitoring the inert gas flow
- Leaking gas is reliably collected

2 Sealing and servo drum bunging system

- Gimbal-mounted and decoupled bunging head with encoder
- Automatic balancing of setting behaviour of plug seal
- Automatic balancing of bunghole mis-positions
- Integrated monitoring of bunging (wedged, motor over-revving)
- Torque up to 60 Nm
- Sealing of drums with automatically fed seal caps

3 Drip collecting device

- Automatic movement of a disposable/reusable cup under the filling lance
- Suitable also for sticky products
- Free of contamination due to disposable cup

4 Drum leakage test

- Integrated drum leakage test for empty drums and/or closure leakage test

5 ePOWER Variants option

- Electric opening cylinder
- Electric base height adjustment
- Electric lifting unit

6 Protective cabin

- Air exchange in the protective cabin through standard exhaust connections

7 Bunghole exhaust

- Safe exhaust of any filling gases
- Minimum intake of air

8 Automatic drum earthing

- Earthing of steel and plastic drums
- Safe operation thanks to monitoring the earthing

9 Collecting basin with overflow message

- Level limit switch via oscillating probe
- Closing the product feed in case of exceeding limit values
- Approval according to Federal Water Act

10 Digital connection

Data logger, bar code scanner, drum counter and drum tracking

- Bar code scanner for container identification
- Drum tracking with drum counter
- Data logger for logging operating data and filling results
- Data storage in data base

11 Web HMI

- Alarm help texts with comment function
- Operating instructions, electric and pneumatic circuit diagrams included
- Seamless traceability of batches and recipes
- Enhanced usability increases the employees' productivity
- Data export via USB interface or automatic FTP transmission
- Intuitive operation ensures transparent and audit-ready production
- FDA-compliant user management
- Digital logbook with event logging
- Web-based system

*** Fig. includes special equipment**

INTEGRA® 71

Portal pallet filling robot INTEGRA® 71

The portal pallet filling robot INTEGRA® 71 is designed for the fully automatic filling of IBC as well as drums and containers which are arranged on pallets.

The filling robot convinces by features such as identifying the filling openings fully automatically with subsequent positioning. While the containers are moving into the filling robot, a camera scans the container surface and identifies the positions of the filling openings automatically.
In addition, the position of the openings is checked for plausibility.

Afterwards, the containers are automatically opened, filled, and closed one after the other and sealed if required.

1 Inert gas pre-filling

- Inerting containers with e.g. nitrogen
- Monitoring the inert gas flow
- Inerting time to be adjusted in the product data record
- Leaking gas is reliably collected

2 Servo drum-bunging system

- Gimbal-mounted and decoupled bunging head with encoder
- Automatic balancing of setting behaviour of plug seal
- Automatic balancing of filling opening mis-positions
- Integrated monitoring of bunging (wedged, motor over-revving)
- Torque up to 60 Nm

3 Drip collecting device

- Automatic movement of a disposable/reusable cup under the filling lance
- Suitable also for sticky products
- Free of contamination due to disposable cup

4 IBC capper

- Gimbal-mounted and decoupled capper
- Automatic balancing of filling opening mis-positions
- Integrated monitoring of capping (wedged, motor-over-revving)
- Torque up to 115 Nm

5 Image processing system

- High-resolution CCD line scan camera with lighting equipment
- Identifying openings via plausibility check
- Automatic re-positioning of the container in case the position of the filling opening has shifted

6 Digital connection
Data logger, bar code scanner, drum counter and drum tracking

- Bar code scanner for container identification
- Drum tracking with drum counter
- Data logger for logging operation data and filling results
- Data storage in data base

7 Bunghole exhaust with integrated earthing device

- Safe exhaust of any filling gases
- Minimum intake of air
- Automatic earthing at the bunghole
- Earth monitoring and interlocking of the filling operation

8 Automatic earthing device for IBC

- Pneumatically operated earthing blades provide for earth contact of the IBC steel frame
- Earth monitoring and interlocking of the filling operation

9 Collecting basin with overflow message

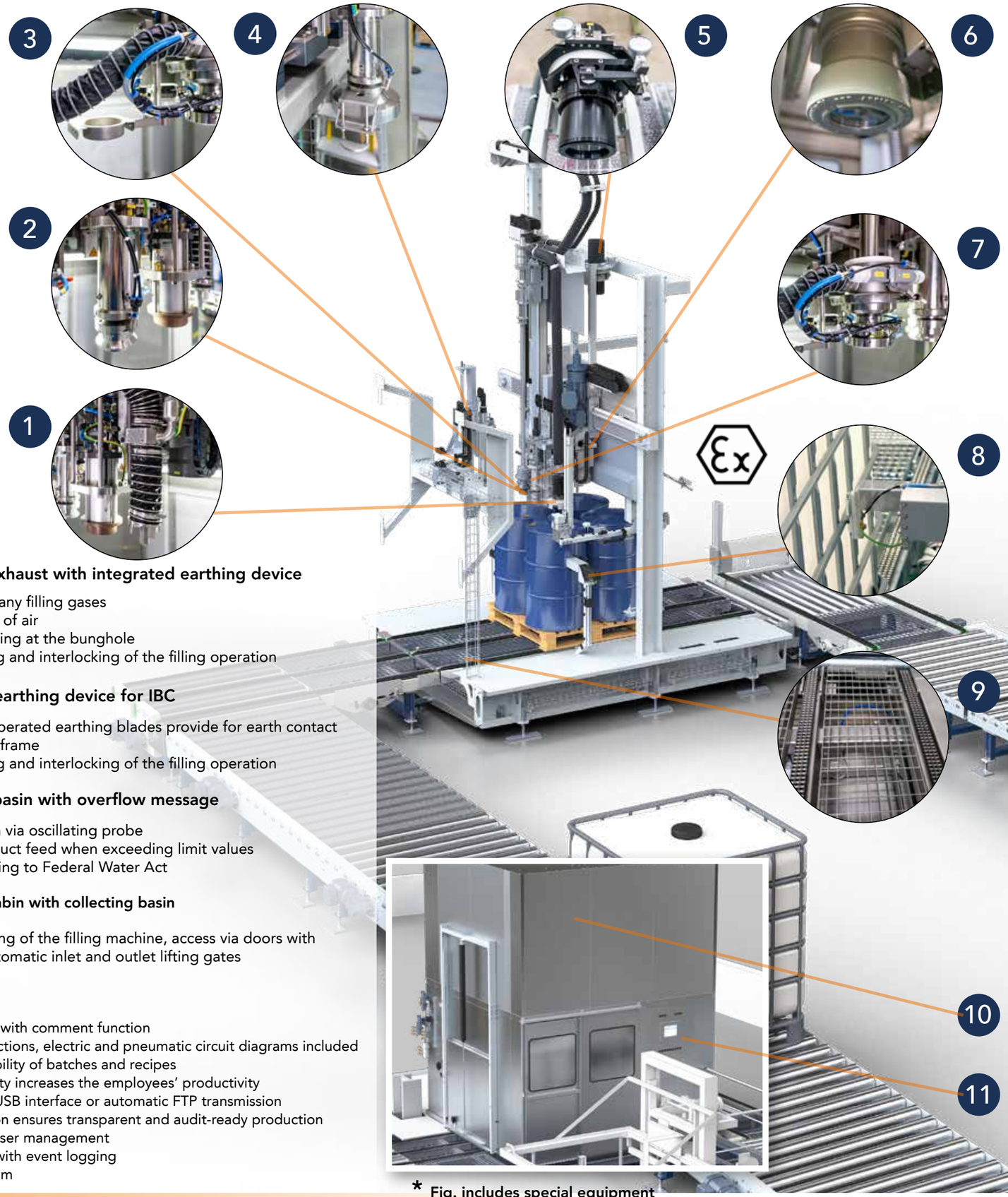
- Level limit switch via oscillating probe
- Closing the product feed when exceeding limit values
- Approval according to Federal Water Act

10 Protection cabin with collecting basin

- Complete housing of the filling machine, access via doors with interlocking, automatic inlet and outlet lifting gates

11 Web HMI

- Alarm help texts with comment function
- Operating instructions, electric and pneumatic circuit diagrams included
- Seamless traceability of batches and recipes
- Enhanced usability increases the employees' productivity
- Data export via USB interface or automatic FTP transmission
- Intuitive operation ensures transparent and audit-ready production
- FDA-compliant user management
- Digital logbook with event logging
- Web-based system



* Fig. includes special equipment


Feige
FILLING
INTEGRA® 64
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INTEGRA® 64

Flexibility for demanding filling processes

The INTEGRA® 64 is our compact, all-in-one solution for the filling of canisters approved for verification and safe closing of the canisters. The integrated conveying and handling system ensures an efficient flow of materials and enables the operation by only one person. Short distances, ergonomic workflows and a high machine availability set the benchmark for economic and reliable production processes.

1 Inert gas pre-filling

- Purging unit for purging canisters with nitrogen, for example
- Automatic monitoring of the gas flow for reproducible processes
- Safe collecting of escaping gas

2 Canister closing system

- Precise capping of screw caps with reproducible torque
- Automatic balancing of setting behaviour of seal / mis-positions and height differences
- Integrated monitoring for wedged closures and over-threading
- Torque up to 25 Nm
- Quick tool change for least changeover times

3 Drip collecting

- Precise and automatic feed of drip tray to the filling place
- Suitable even for products which are sticky and difficult to handle
- Maximum product hygiene thanks to contamination-free disposable trays

4 Canister leakage test

- Canister leakage test for empty canisters and/or closure leakage test

5 ePOWER Variants

- Electric opening cylinder
- Electric base height adjustment
- Electric lifting unit

6 Safety enclosure

- Flexible operating arm with web HMI in front of safety enclosure
- With swing doors incl. viewing windows in front of the working stations

7 Bunghole exhaust

- Safe exhaust of any filling gases
- Least suction of secondary air

8 Collecting basin with overflow message

- Level detection via level limit switch
- Closing of product feed when limit value is exceeded
- Meeting the demands according to relevant national law (Federal Water Act WHG)

9 Digital connection

Data logger, barcode scanner, canister counter and canister tracking

- Barcode identification of canisters
- Seamless canister tracking via an integrated canister counter
- Data logger for collecting and recording process and filling data
- Centralized data storage in data bases

10 WEB HMI

- Alarm help texts with comment function
- Operating instructions, electric and pneumatic circuit diagrams included
- Seamless traceability of batches and recipes
- Enhanced usability increases the employees' productivity
- Data export via USB interface or automatic FTP transmission
- Intuitive operation ensures transparent and audit-ready production
- FDA-compliant user management
- Digital logbook with event logging
- Web-based system



* Fig. includes special equipment



INTEGRA® 605/606

Flexibility for demanding filling processes

The automatic canister fillers INTEGRA® 605 and the high-performance version 606 are designed for the fully automated filling of canisters. Thanks to their modular and flexible design, these systems can be adapted to a wide variety of production requirements. Whether open canisters, screw or dust caps, plugs, various closure types or different filling modes: These systems offer extensive configuration options for efficient, safe and reliable filling operations. The systems can also be customized for specialized applications, including the filling of aggressive media.

1 Inert gas pre-filling

- Purging unit for purging canisters with nitrogen, for example
- Monitoring of the gas flow
- Safe collecting of escaping gas

2 Canister closing system

- Capping of screw caps
- Automatic balancing of setting behaviour of the seal
- Automatic balancing of mis-positions and height differences of the filling opening
- Integrated monitoring (wedged closures, over-threading)
- Torque up to 25 Nm
- Quick change system for quick and simple changeover to other screw cap formats

3 Cleaning station (CIP)

- Cleaning the filling valve while remaining in the filling station
- Thus, no complex valve changes required during product changeovers
- Cleaning mode can be started on the web HMI
- Rinsing the product line in the machine (cleaning pipe)

4 Drip collecting

- Automatic feed of disposable / reusable trays below the filling lance
- Suitable even for sticky products
- Disposable trays ensure a contamination-free process

5 Canister leakage test

- Canister leakage test for empty canisters and/or closure leakage test

6 ePOWER Variants

- Electric opening cylinder
- Electric base height adjustment
- Electric lifting unit

7 Protective cabin

- Air exchange within protective cabin via standard exhaust connections
- Exhaust connections are possible on all stations

8 Bunghole exhaust

- Safe exhaust of any filling gases
- Least suction of secondary air

9 Automatic canister earthing

- Earthing of steel and plastic canisters
- Safe operation thanks to earthing monitoring

10 Collecting basin with overflow message

- Level detection via level limit switch
- Closing of product feed when limit value is exceeded
- Meeting the demands according to relevant national law (Federal Water Act WHG)

11 Digital connection

Data logger, barcode scanner, canister counter and canister tracking

- Barcode scanner for canister identification
- Canister tracking with canister counter
- Data logger for collecting and recording process and filling data
- Data storage in data base

12 WEB HMI

- Alarm help texts with comment function
- Operating instructions, electric and pneumatic circuit diagrams included
- Seamless traceability of batches and recipes
- Enhanced usability increases the employees' productivity
- Data export via USB interface or automatic FTP transmission
- Intuitive operation ensures transparent and audit-ready production
- FDA-compliant user management
- Digital logbook with event logging
- Web-based system



* Fig. includes special equipment

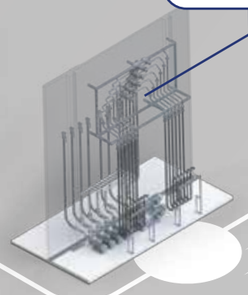
From raw material intake to the finished product, ready for shipment

With SOMMER and FEIGE, you get more than individual machines: we combine process, filling and end-of-line technologies into one seamless turnkey solution. Perfectly coordinated, efficiently engineered and delivered from a single source.



DELIVERY OF RAW MATERIALS

Ingredients for producing liquid and pasty products



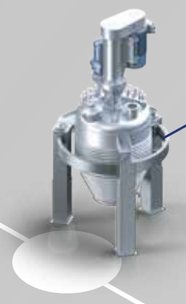
PUMP STATION

Conveying media to the storage tank



STORAGE

Monitored and secure storage of raw materials for an efficient production



MIXER

Reproducible mixing processes for low- and high-viscosity media



LABELLING AND MARKING SYSTEMS

High resolution and clean, customized designs



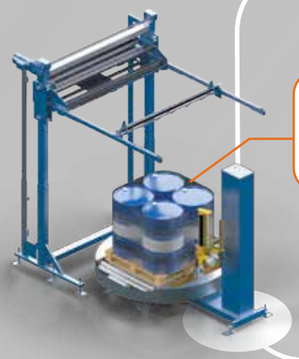
AUTOMATIC CONTAINER FILLER

Fully-automated filling of containers with liquid and pasty products



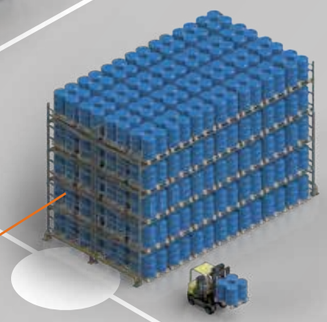
PALLETIZING

High-capacity palletizing systems; easy to operate and highly automated



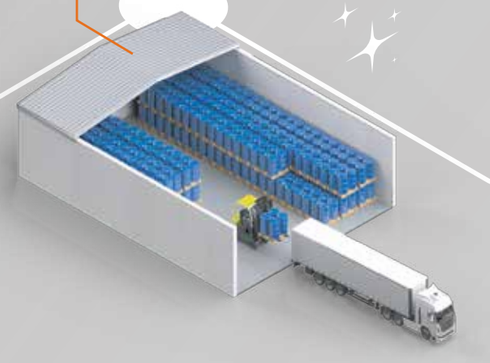
LOAD SECURING

Strapping and stretch-wrapping secure the load on the pallet



INTERMEDIATE STORAGE

High-capacity filled drum storage systems



ORDER PICKING

Order picking and shipping

END USER



INTEGRA – strong in performance. Reliable in service.

FEIGE Service – because reliability is part of the solution

- There for you worldwide – fast, reliable, personal
- Direct support when it matters most – also remote
- Original spare parts you can always rely on
- Long-term support – today, tomorrow and for decades to come
- Maximum availability for your processes and your investment

Sommer GmbH
Maschinen- und Anlagenbau
Burgunderstr. 35
40549 Düsseldorf
Germany
Tel.: +49 211 230 82 32
E-Mail: info@sommer-anlagenbau.com
Internet: www.sommer-anlagenbau.com



Feige FILLING GmbH
Rögen 6a
23843 Bad Oldesloe
Germany
Phone: +49 4531 8909 0
E-Mail: info@feige.com
Internet: www.feige.com



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