

Sample configuration  
(Specifications in mm)

TECHNICAL DATA

Power supply and Performance data	Degree of protection	IP55
	ATEX marking	Ⓔ II 2G Ex h IIB T3 Gb
		3x400V/N/PE, 50-60Hz
	Basic machine	5 kVA
	Electric lifting unit	0.25 kVA
	Motor-driven base height adjustment	0.25 kVA
Air pressure		5 bar dynamic
Air consumption	Pneumatic lifting unit	50 standard litres/drum for below-surface filling 20 standard litres/drum for below-bunghole filling
	Electric lifting unit	2 standard litres/drum for below-/with surface and below-bunghole filling
	Bunging unit pneumatic	80 standard litres/drum
	Bunging unit electric	2 standard litres/drum
Ambient temperature		+5 to + 35°C
Product temperature		0 to 130°C
Nominal output		30-60 drum/h depending on the version
Weighing ranges approved for verification		10 - 300 kg - increment 0.1 kg, to 1200 kg/1500 kg - increment 0.5 kg
		20 - 600 kg - increment 0.2 kg, to 1500 kg - increment 0.5 kg
		20 - 600 kg - increment 0.2 kg, to 2000 kg - increment 1.0 kg
Weight		Approx. 1,150 kg, according to version
Product connection		Feige square flange, wide range of product hose selection
External control	Dry contacts	2 (coarse/fine)
	Analogue signal	4-20mA (for product pump or pilot valve)

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Feige  
FILLING

PALLET FILLING ROBOT INTEGRA® 71





# 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 tracing

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

### 7 Bung hole exhaust with integrated earthing device

- Safe exhaust of any filling gases
- Minimum intake of air
- Automatic earthing at the bung hole
- 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

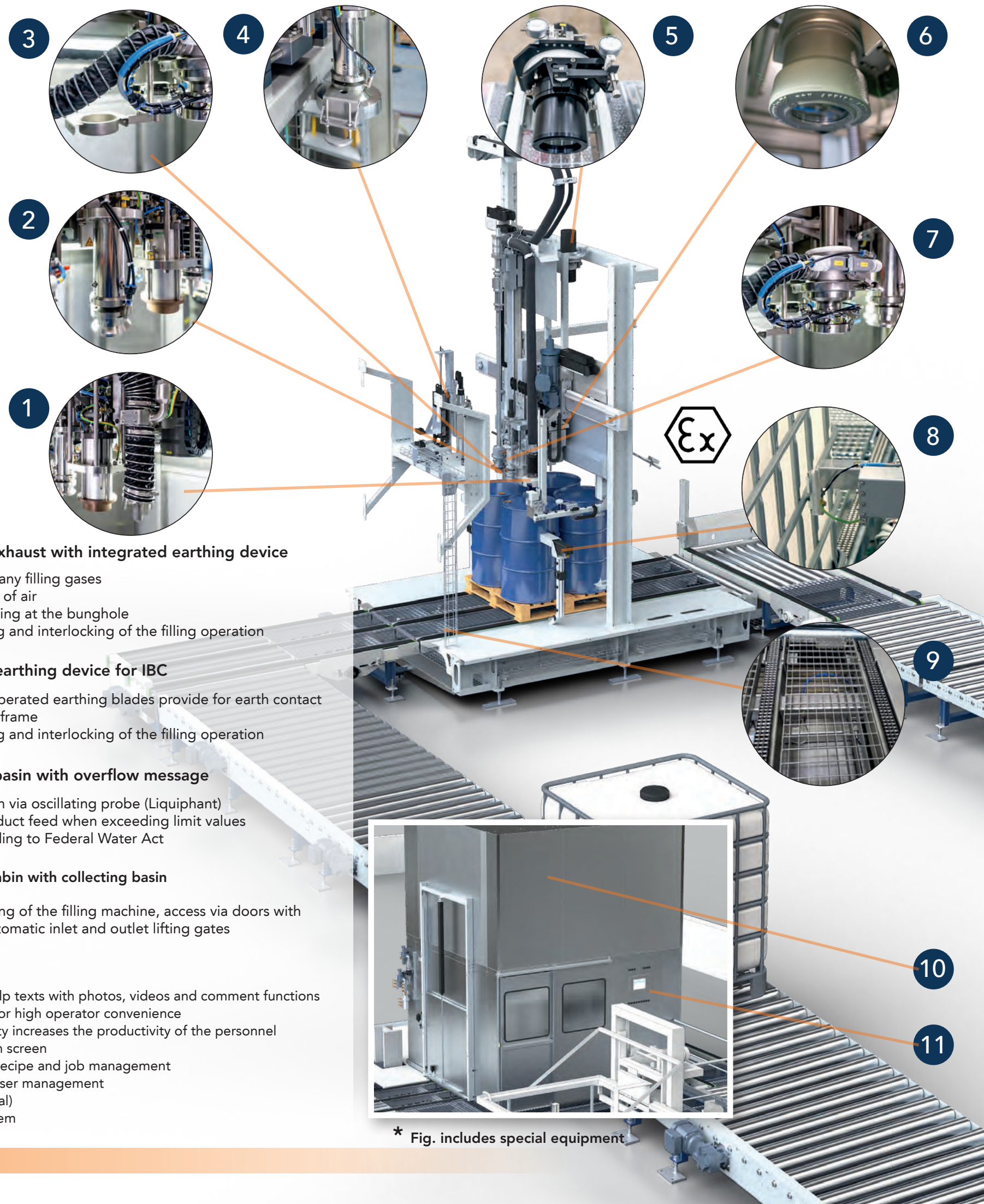
- Level limit switch via oscillating probe (Liquiphant)
- Closing the product feed when exceeding limit values
- Approval according to Federal Water Act

### 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-related help texts with photos, videos and comment functions
- Intuitive design for high operator convenience
- Improved usability increases the productivity of the personnel
- 15.6" multi-touch screen
- Comprehensive recipe and job management
- FDA-compliant user management
- Logbook (optional)
- Web-based system



\* Fig. includes special equipment