

Success through Customer Orientation and Permanent Innovation



A member of The HAVER GROUP

EILLING

THE TECHNOLOGY GROUP

HAVER & BOECKER













- Loose powdery material handling / Cement / Building materials + Minerals / Chemical industry -

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FILLING

Feige GmbH Abfuelltechnik

Feige GmbH Abfuelltechnik is a German manufacturer of gravimetric filling machines used for precise filling of liquids and pastes. Founded in Hamburg, Germany in 1972, Feige GmbH Abfuelltechnik has gained technology leadership through constant innovation.

Satisfied customers and worldwide acceptance are a result of our customer orientated approach.

In 1987 Feige GmbH moved to Bad Oldesloe, some 30km northeast of Hamburg.

After a number of expansions we have today 5 400 m2 of modern production facilities and offices on our 12 000m2 plot of land. Numerous references are available proving our success and knowhow.

An important factor to our success is the presence of our agents in most European and neighboring countries.

To strengthen our market position we founded new companies especially in fast growing markets, together we are the "Feige Filling Group".

Feige GmbH Abfuelltechnik and all members of the Feige Filling Group are member of the Haver & Boecker Group since 2003.



The head office of Feige GmbH, Abfülltechnik in Bad Oldesloe

The Feige Filling Group

Feige Filling Technology (FFT) Asia Pacific Pte. Ltd. a wholly owned subsidiary of Feige GmbH Abfuelltechnik has been founded in 1998. Serving the fast growing markets in South-East Asia and China led to a considerable market share increase, which today is one of the key strategic positions for the Feige Filling Group. Special emphasize is to be given to China, India and Malaysia.

The same year FFT-USA has been founded in Houston, Texas to cater for the growing markets in the Americas. Today they are a subsidiary of Haver Filling Systems and moved to Conyers near Atlanta, Georgia. Today more than 100 systems are in operation in North America alone.

To strengthen market share in France Feige Filling France (FFF) has been established as a wholly owned subsidiary of Feige GmbH Abfuelltechnik in October 2001. Till today more than 180 Feige systems have been sold in France alone.

Since 2003 the South American market has been successfully served by our affiliated company Haver & Boecker Latino-America under the name of Feige Filling Brazil.

FILLING

Company profile



The Feige team



Serial manufacturing of automatic fillers

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					References	FILLING
Worldwide more th	an 3500 ma	ichines have been deliv	vered	Extract:		
Austria	69	Mexico	10	3M	Kuwait Nation	al Petroleum
Belgium	184	Morocco	2	Akzo	Lukoil	
China, Hong Kong	92	Netherland	214	Akzo Coatings	Nestlé	
Danmark	48	Norway	40	Bayer	Petrofina	
Eqypt	19	Poland	20	Boehringer	Pronova	
Finland	31	Portugal	10	Bostik	Rossneft	
France	180	Romania	8	BP	Saint-Gobain /	Weber-Terra-
Germany	1850	Russia	34	Brenntag / HCI	nova	
Great Britain	150	Sweden	115	Bühler AB	Sandoz	
Gulf States	17	Switzerland	250	Coca Cola	TNK	
Hungaria	11	Singapore	20	Degussa	TDG European Chemicals	
India	33	Spain	32	DeRijke	Техасо	
Ireland	15	Turkey	13	Dupont		
Italy	30	USA	100	ELF		
Malaysia	8	Others	160	Esso		

Exxon-Mobil

Guinness

IOBL, India

Henkel

Knauf

80

500

Petrochemical industry 600

Logistics Provider

Others

Extract:

... Industries:

Food industry

Building material

Chemical industry

Paints and lacquer

180

1900

164

281



The filling technology for your liquid/pasty products

Product characteristics and container shape determine the filling mode

Below-Surface





Below-Bunghole

For nonfoaming, uncritical products to be filled in bung-type containers.

Load Cells or Mass Flow Meters are used for precise filling according to the Weights & Measures Act.

The electronic weigh scale

The load cell and the scale terminal are integrated in the filling system as approved equipment according to Weights & Measures Act. The Weights & Measures Act specifies the minimum and maximum allowable weight for a particular scale and the filling tolerance.

The mass flow meter

The mass flow tube (Coriolis principle) through which the product flows, and the scale terminal are integrated in the filling system as approved equipment according to Weights & Measures Act. The minimum filling quantity and the filling tolerance are set by approved technical specification (the maximum filling quantity is not stipulated).

You can choose between single container and palletised container filling.

Single Container Filling



Each individual container is positioned according to the filling valve location.

Feige palletising systems can be used for palletising single containers after filling if required.

You determine the automation level.

Semi-Automatic Filler

The empty container and filling valve are aligned by operator, who starts the automatic filling process by pressing a push button. Each container is precisely filled within Weights & Measures specifications using coarse and fine flow.

Container opening and closing can be done manually using Feige closing tools whilst another container is being filled.

Pallet Filling



Empty containers are palletised before filling. Pallets with containers are placed at the filling machine, where the filling valve is positioned according to each individual container opening and one container is filled at the time. Design and equipment dimensions also allow multi-layer and large container (IBC) filling.

Fully-Automatic Fillers

Empty, clean and closed containers are transported to the filler. Filling opening and tools are positioned to each other. De-bunging, filling, bunging and sealing are automatically done. The filled, clean and closed container leaves the filler. Other functions such as labelling, printing, nitrogen purging, overpressure bunging or leak testing can be integrated into the automatic process.

The weigh scale – The filling valve



Container and Bag Filling

It all starts with customers container requirements. Feige systems are suitable for a

wide range of product containers starting at a 0.5 kg tin via pails, jerry cans, bags, steel and plastic drums up to IBCs. Simple semiautomatic stand-alone machines to fully automatic turn-key solutions for various container types are our business. Our customers' requirements are complex and some applications are:

- Automatic unloading of empty drums from trucks or trailers
- Automatic empty drum storage systems
- Empty container de-palletising
- Pail de-nesting
- Empty container conveyor systems
- Bunghole location
- De-bung or cap removal
- Empty container leakage testing
- Empty container contamination checks
- Inert gas purging
- Container earthing for hazardous area applications
- Precision filling within Weights & Measures limits
- Bag filling for liquid and pasty products
- Foil sealing for pails
- Seal cap application for jerry cans
- Capping and bunging for jerry cans and drums
- Lid placing and pressing systems for cans and tins
- Pressurised bunging for hot products
- Cap sealing systems for drums
- Labelling, printing and ink-jet systems
- Filled container conveyors
- Palletising systems
- Strapping and stretch-wrapping system







Drum Filler "SlimLine" Type 9 "Plug and Fill"

Low cost drum filling machine in best Feige quality for up to 300 kg. The "SlimLine" is designed to "keep it simple". All key features are integrated and a number of well proven standard components such as the Feige filling valve and its quick-coupling system are being used.

Semi-Automatic Drum Filler Tpe 19 "Plug and Fill"

Empty drums are manually supplied and orientated before being automatically filled. This filler is also available as movable option. Simple conveyor systems can be intearated.

Semi-Automatic Drum Filler Type 29

Semi-automatic filling machine for containers and drums for up to 300 kg at 100 g resolution.

- Manual bunghole orientation
- Automatic and precise filling in coarse and fine flow after pressing the start push button
- Possible integration of a large number of accessories and sophisticated conveyor system

Automatic Drum Filler Type 31 – 33 "Plug and Fill"

Automatic filling machine for 200 litre steel and plastic drums. Also suitable for handling of 50 litre drums using special accessories. A combination of automatic de-bunging and bunging; N2-purging or double fill station is possible. This machine only needs to be connected to power and air supply to be operational. The complete control system is fully integrated into a skid mounted panel.

Automatic Drum Filler Type 81

Automatic filling machine for 200 litre steel and plastic drums. Also suitable for handling of 50 litre drums using special accessories.

Also available as fully enclosed system including drum inlet and exit gates, suitable for connection to an off-gas system for hazardous fumes treatment.

Automatic Drum Filler Type 84 / 86

Automatic filling machine for 200 litre steel and plastic drums. Also suitable for handling of 50 litre drums using special accessories. Type 84: Machine Capacity around 60 drums per hour Type 86: Machine capacity around 120 drums per hour

















Pallet Filling

Container Filler "SlimLine" Type 6

Low cost filling machine in best Feige quality for IBCs and drums on pallet. The "SlimLine" is designed to "keep it simple". All key features are integrated and a number of well proven standard components such as the Feige filling valve and its quick-coupling system are being used.

Semi-Automatic Pallet Filler Tpe 16 "Plug and Fill"

Semi-automatic filling machine for IBCs, drums or containers placed onto a pallet. The filling valve is manually positioned to match each container opening before automatic filling starts.

Simple conveyor systems with up to 3 drives can be integrated.

Semi-Automatic Pallet Filler Type 26

Semi-automatic filling machine for IBCs, drums or containers placed onto a pallet. Using two push buttons the filling valve is positioned by pneumatic drive to match each container opening before automatic filling starts. Complex conveyor systems can be integrated.

Automatic Pallet Filler Type 37 "Plug and Fill"

Automatic filling machine for IBCs, drums or containers placed onto a pallet. A matrix camera system automatically detects each container opening. The filling valve is automatically positioned to match each container, which is automatically filled.

Automatic Pallet Filling System Type 71 /72

Automatic filling system for IBCs, drums or containers placed onto a pallet, available with or without camera system.

Sequence:

- 1. Step: Pallet in-feed and bunging tool positioning to match the first bunghole, either automatically by camera system or manually by joy-stick.
- 2. Step: Automatic de-bunging
- 3. Step: Automatic filling
- 4. Step: Automatic bunging

Robot Filler Type 91

The robot filler is designed for jerry cans, pails, drums or IBCs ranging from 32 - 1500 kg, either supplied as single container or as multiple containers placed onto a pallet.

Filling valve positioning is done by full-frame camera. Product and filling valve change is fully automatic and does not require an operator.











Can Filler "SlimLine" Type 4

Low cost filling machine in best Feige quality for jerry cans up to 60 kg. The "SlimLine" is designed to "keep it simple". All key features are integrated and a number of well proven standard components such as the Feige filling valve and its quick-coupling system are being used. This filler is also available for foaming products or hazardous area application according to ATEX.

Semi-Automatic Can Filler Type 14

A "Plug and Fill" solution for precise jerry can filling of up to 60 kg. This machine only needs to be connected to power and air supply to be operational. It is also available as movable option that could be brought directly to the product tank instead of using complicated pump and piping systems. The can filler is in stainless steel execution and using the innovative Feige weighing technology. The "plug and fill" design makes it especially easy for hazardous area applications as extensive cable work is no longer required with this compact design.

Semi-Automatic Can Filling Machine Type 24

The solution for more complex tasks, which allows all types of accessories and extensive conveyor systems to be integrated into the PLC-control system (Siemens \checkmark Allen Bradley). External components and DCS connections are easily done using various interface options. Latest hardware and software designs and the innovative Feige weighing technology are being used to make this can filling system so successful.

Automatic Can Filling Machine Type 34

This can filler is one compact all included system. Can in- and out-feed conveyors, a filling station specifically designed for your products and a capping station (for screw or push type caps) including cap sorting devices are possible. Everything is skid mounted and the modular design allows step by step expansions so you could start with the basic version and upgrade at your own convenience. Empty can feeding system, cap sealing systems or palletising systems are easily integrated. The compact and smart design makes this filling machine immediately operational as almost no installation is required and all settings are done by Feige before delivery.

Open Concept Type OC

A modular solution for special requirements. The open concept series OC is suitable for all kinds of use. The basic applications such as can feed, filling and capping are standard execution. Customised solutions for chemical or food industry such as quick product change and CIP, container sealing, specialised closure systems with crimp connection, food specific applications and enclosed filling cabins are easily integrated. DCS connections using various interface options are available.

Latest hardware and software designs and the innovative Feige weighing technology are being used.









Can Filling

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The smart solution to meet your requirements

Pail Filler "SlimLine" Type 4

Low cost filling machine in best Feige quality for pails up to 60 kg.

The "SlimLine" is designed to "keep it simple". All key features are integrated and a number of well proven standard components such as the Feige filling valve and its quick-coupling system are being used. A number of low cost accessories are offered for this filler. It is also available for foaming products or hazardous area application according to ATEX.

Semi-Automatic Container Filler Type 14

A "Plug and Fill" solution for precise pail filling of up to 60 kg. This machine only needs to be connected to power and air supply to be operational. It is also available as movable option that could be brought directly to the product tank instead of using complicated pump and piping systems. The can filler is in stainless steel execution and using the innovative Feige weighing technology. The "plug and fill" design makes it especially easy for hazardous area applications as extensive cable work is no longer required with this compact design. Also available with RFill software developed for high speed pail filling.

Semi-Automatic Container Filling Machine Type 24

The solution for more complex tasks, which allows all types of accessories and extensive conveyor systems to be integrated into the PLC-control system (Siemens / Allen Bradley). External components and DCS connections are easily done using various interface options. Latest hardware and software designs and the innovative Feige weighing technology are being used to make this can filling system so successful.

Automatic Pail Filling Machine Type 34

This can filler is one compact all included system. Pail in- and out-feed conveyors, a filling station specifically designed for your products and lid placing including lid pressing. Everything is skid mounted and the modular design allows step by step expansions so you could start with the basic version and upgrade at your own convenience. Pail de-nesting or palletising systems are easily integrated.

The compact and smart design makes this filling machine immediately operational as almost no installation is required and all settings are done by Feige before delivery.

Rapid Filler

The high-end solution for filling of up to 30 pails per minute. This high precision system is also available for constant flow applications. To ensure non-interrupted production Feige developed matching pail in-feed, lid placing and palletising systems. The unique valve-carriage design and pigging systems make product change quick and easy.

Open Concept Type OC

A modular solution for special requirements. The open concept series OC is suitable for all kinds of use. In addition to de-nesting, filling, lid placing and pressing it is also possible having customised solutions such as foil sealing, crimping and enclosed filling cabins. DCS connections using various interface options are available. Latest hardware and software designs and the innovative Feige weighing technology are being used.





















Bag filling





BagFiller

The stainless steel bag filler is designed to "keep it simple". All gravimetric filling key features are integrated and a number of well proven Feige standard components are being used. This smart solution is a result of Feige technology combined with Haver & Boecker bag handling knowhow.

A vast array of accessories is available for the bag filler.



Bag-In-Box Cheertainer Filling Station

This "Plug and Fill" solution has been developed for dual-packing material applications (Cubitainer).

The filling weight is measured by mass flow meter and controlled by the Feige weighing terminal. A modified filling valve design is ensuring accurate filling results.

A short changeover time makes this flexible system suitable for filling weights from 2.5 to 30 kg.



LIFFS - Liquid In Form Fill Seal

The fully automatic solution for liquid and pasty product filling into plastic bags.

The LIFFS is a fully automatic machine for liquid filling into plastic bags.

The well known Feige product flow control technology makes this system suitable for fast and clean plastic bag filling.

This skid mounted system integrates all required components from bag-forming to bag-outlet and requires hardly any installation and commissioning at site. A number of accessories are available allowing customised solutions for your needs.

Manipulators

The operator is using a manipulator to move containers "weightless" from conveyor to pallet.

Vacuum Palletiser Type FP-VH

The vacuum palletiser is an ideal solution for automatic steel drum palletising. Single drums or a row of drums are picked-up by a vacuum pad and placed onto a pallet.

The system has a capacity of up to 55 pallets per hour based on 4 drums in 2 rows per pallet.

Push Palletiser Type FP-S

Drums are automatically palletised by pushing them along sliding plates onto a pallet.

The push palletiser is especially suitable for different drum sizes and pallet arrangements.

The system has a capacity of up to 45 pallets per hour based on 4 drums in 2 rows per pallet.

Robot Palletiser

The versatile robots can be used for various applications:

- Drum, pail or can de-palletising
- Pallet de-stacking and positioning
- Drum, pail, can and box palletising
- Multi-layer palletising
- Slip-sheet placing
- Suitable for various container sizes and shapes as well as different pallet arrangements using multi-functional and / or exchangeable tools











FILLING

Selecting the correct palletising tool depends on container shape, pallet arrangement and required system capacity.

Vacuum Tools Are the preferred tool if the container is suita-

ble for it. They would allow almost every possible pallet arrangement and multi-function

tools for various container sizes and shapes

Mechanical Tools

Pneumatic activated gripping tools are being used to hold the container. Using additional vacuum pads is also possible for certain container types. Design of multi-function tools for different container sizes and shapes is more complex.

	are available.		container sizes and shapes is more complex.		
	Single-Container Tool	Multiple-Container Tool	Single-Container Tool	Multiple-Container Tool	
Pails	Type: IRV-E	Type: IRV-ER2	Type: IRM-E	Type: IRM-ER3	
Cans	Mechanical tools are for can palletising.	e usually more suitable	Type: IRM-K	Type: IRM-KR5	
Boxes	Type: IRV-B	Type: IRV-BR3	Forks are suitable for pails, cans, boxes and bags	Type: IRM-G	
Drums	Type: IRV-F	Type: IRV-FR2	Type: IRM-F		
Pallets	Type: IRV-P			Container gripping tools can be combined with pallet gripping tools.	
Slip-Sheets	Type: IRV-Z		Type: IRM-P	Pallets could also be dispensed by pallet ma- gazines.	
Quick-Change Systems		If multi-function tools be geable tools. The quick-c	ecome too complex it is also hange system makes auton	o possible using exchan- natic tool change easy.	

Turn-Key Installations

Feige

FILLING

Apart from filling and palletising you also need storage system, container supply, labelling and securing of your containers? You want collect and process filling data? You need to connect to a DCS? We provide the engineering and deliver complete systems.



Empty drum storage silo

For fully automatic drum storage and retrieval of 200 litre steel and plastic drums.

Silos for fully automatic storage and retrieval of different container sizes are also available.

Robot For drum retrieval from an empty drum storage system.



Can Feeding Table For effective can supply to your filling system.



Labeler Automatic application of self-adhesive labels to pails, drums or cans.



Stretch Wrapper Palletised containers are protected by fully automatic stretch wrapping.



Turn-Key Project for Lube-Oil Plant The entire system is DCS controlled.



Turn-Key Project for Automatic Can Filling The entire system can be automatically adjusted to fit different can sizes.

- Empty drum storage system
- Empty drum allocation
- Automatic drum filling system
- Drum filling machines
- Automatic container filling system
- Container filling machine
- Pallet Magazine
- Push Palletiser
- Strapping System

- Can Feeding Table
- Can Allocation (Lift)
- Label printing and application
- Automatic can filling and closing system
- Robot palletiser with exchangeable tools
- Stretch Wrapper
- Pallet Conveyor System



DCS Connections

Collecting and processing filling data gives you a number of advantages:

- · Information on machine capacity in relation to products and container sizes to better plan your material flow
- Vital information for preventive maintenance
- Process optimisation by identifying weak links (e.g. operational mistakes, wrong settings etc.)
- Remote access and service cost reductions

Various interface options are available to be selected as per customer requirements or existing infrastructure.

Common Applications are:

Customer ⇒ Filling System **Recipe Transfer:**

- e.g. Product and Container information
- Net and Gross Weight
- Quantities

Filling System ⇒ Customer

- Order-Status:
 - Date and time
 - Net filling weights
 - Tolerances
 - Quantities
 - Statistics



- System Status e.g. Error and Alarm Messages

Also:

- Valve and pump control
- Teleservice via remote modem access
- Barcode reading
- Cleaning and CIP sequences









W1

9.2 kg Wahle Funktion 1-3

All DCS communications are customised to suit your specific requirements. A detailed specification is required beforehand.



Feige Certificates

Feige





Service

After you purchased a Feige machine you can make use of our various after sales service opportunities. This will ensure maximum equipment availability and production capacity at the highest level. Preventive maintenance will avoid unscheduled production stops and equipment breakdowns.

Our friendly service team is available around the clock.



24 hour hotline +49-45 31-8909-222

Our service hotline can be reached around the clock giving you support.



Teleservice

If required, we are immediately at your disposal via Teleservice. We have access to your control system through a modem-to-modem connection. We can locate irregularities and take appropriate measures for rectification.



Spare parts service

We guarantee long-term and optimum supply of all required spare and wear parts for your equipment.



Inspection, maintenance

Regular inspections and maintenance increase the availability of your equipment.

Equipment inspection

The actual state of your equipment is assessed as per DIN 31051; the inspection includes:

- · Sight check of all relevant parts and components with assessment
- Functional test with assessment
- Inspection protocol

Inspection is the basis for successful maintenance.

Equipment maintenance

Maintenance includes all measures to maintain the actual state of your equipment, such as:

- Replacement of parts based on the inspection protocol
- Lubrication and adjustment
- Drawing up of maintenance protocol



Service contracts

A service contract will be drawn up meeting exactly your demands. The table shows you the possibilities.

Your advantage: You know the exact costs for the service you expect.





Equipment check

Depending on the field of application, some checks must be carried out or must be repeated during operation. Ask for our support regarding:

- Equipment safety in Germany as per "Betriebssicherheitsverordnung (BetrSichV)" §10/BGR500 Teil 2 ("Betreiben von Verpackungs- und Verpackungshilfsmaschinen")
- Equipment safety in Germany as per BGV A3 "Elektrische Anlagen und Betriebsmittel"
- Equipment safety as per EN60079-14 (VDE 0165 part 1) "Elektrische Betriebsmittel in gasexplosionsgefährdeten Bereichen - part 14 Elektrische Anlagen in gasexplosionsgefährdeten Bereichen" (in Germany implemented in "Betriebssicherheitsverordnung" §15)
- Preparation for calibration and assistance during calibration, initial calibration of manufacturer



Training

Regular training of your operating and maintenance personnel guarantees a high level of efficiency of your equipment. We offer training in our works or directly at your equipment. Each participant will receive a certificate after the training.



Equipment optimisation

Your equipment should be adjusted to new fields of application. We will provide you with the appropriate concept to fulfill your new requirements.

- Revamping to latest design
- Revamping to new application
- Extension
- Optimisation of output
- Optimisation of availability

Examples:

Scale revamping

Your reliable equipment is revamped with state-of-the-art components, which considerably improve the operation of your equipment. A long-term supply of spare parts is quaranteed.





Zertifikat

Before: Circular weigh scale

After: Electronic weigh scale

Integration of a second fill place:

A remarkable increase in output can be achieved by completing the filling equipment with a second fill place. The modular system of Feige offers this possibility.

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E		

ment with one fill place



Before: Container filling equip- After: Container filling equipment with two fill places

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