









# F-Line F100 - F200

# Professional vacuum stuffers for the trade and industry

F-LINE F100-F200 are designed as vacuum fillers for the trades and industrial production sites. F100-F200 are for productions with high demands on the exactness of the portions and the quality. F100-F200 masters every kind of filling such as straight-filling, portioning and linking.

# F-Line F100-F200 - Innovative conveyor technology

### Rotary systems

Frey uses large-dimensioned vane cell feeding systems with 14 filling chambers in the F-Line F100-F200 vacuum fillers. With the Peek-Cam-system a material combination is used which concentrates the wearing out on only one part of the rotor system and ensures a higher service life.

The guide core is pluggable and can therefor be exchanged without tools. The rotor system works with highest portioning exactness and the new geometry of the chambers ensures an optimum sucking of the filling material. The result is an optimum sausage aspect, also of critical sorts. In connection with the most modern FREY- control and drive technology the rotor system of the F-Line F100-F200 achieves highest portioning exactness, also by producing high quantities. The maximum portioning speed is approx. 600 port./min.

The F-Line F100-F200 achieves a filling performance from 3.000 kg/h to max. 4.200 kg/h and a filling pressure up to 55 bar. The F-Line F100-F200 is the most powerful filling machine in this segment. The model F-Line WK is designed for applications with the grinding head systems WK98 / WK132. F-LINE F100-F200 manages to do portioning and linking with different casings such as natural and artificial casings, tins or as leading pump for attachments.







# Flexibiliy

Is a catchword in our time. The customer of today expects a larger product diversity than in former times. With F-Line F100-F200 you are well prepared for the future. The FREY vane cell pump guarantees an especially high care for the sausage meat. You can fill all kind of sausages - independent on the sausage meat - e.g. warm and liquid liver sausage, sausage with big meat pieces, tough raw sausage meat at minus degrees, you always get the highest quality of your products. An easy conversion to fill products with big pieces is always possible. On special request rotors with a reduced number of wings and a bigger volume of the chambers are available.



- Best product quality due to the large dimensions of the FREY meat pump
- Constructed according to the "Hygienic Design" guidelines
- Excellent price-performance ratio
- High filling power
- Low maintenance costs due to the maintenance-free servo-drive
- Fast and easy change of sorts
- Low noise level due to the FREY servo-drive
- High energy efficiency thanks to the most modern control and drive technology
- Easy cleaning of the vacuum system
- Multiple combinations with C-LINE accessories and external devices.



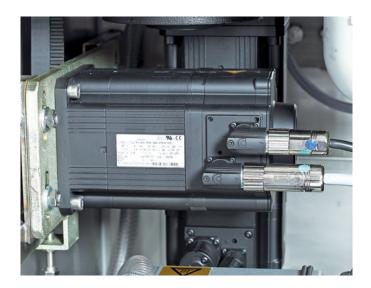


# F-Line F100 hopper

F-LINE F100/103 is delivered with a non-divisible hopper of 120 liters. The spiral stirrer can be dismounted and therefor fullfills all hygienic requirements. Optionally available with a divisible hopper.

# Drive technology of the future





# Servo-drive with positioning controller

The servo-drive with positioning controller is trend-setting. This drive technology enables highest portioning accuracy.

It is to be distinguished by a high moment of rotation and a quick reaction. The linking process is concipated extremely dynamically due to an accordant programmation of the drive parameters. Also with a very high working speed the machine cares for the sausages during the linking process. So e.g. the acceleration of the rotor system during the start and stop process can individually be adjusted. Depending on the conveyor system the spiral stirrer is driven by a drive with firm gear transmission. Thus, the rotational speed is adapted to the filling speed.





Optionally available is a servo linking motor instead of the usual linking motor. The servo linking motor is distinguished by a higher dynamics and a more precise linking. The servo linker is also used for the drive of the grinding head system WK98. The noise level of the machine is extremely low. Due to the high efficiency the F-Line is extremely energy efficient. Considering the increasing energy prices a lower consumption of energy becomes more and more important. This kind of drive unit is especially wear-resistant and maintenance-free as only few mechanical components are installed. The servo positioning controllers are situated separately and thermally apart of the machine. Simple and safe connection of all additional appliances at a strike guarded place. The digital drive and communication between the FREY-filler touch control and external devices with CAN-Bus system ensure highest processing security.

# Convincing ergonomic details



## Cleaning and hygiene

A simple cleaning is the basic requirement for best hygienic conditions in the production. FREY-stuffers therefor have smooth external contours. F-Line F-Line F100/103, F160/163, F190/193 und F200 are conforming to the CE-regulations. The splash and strike guard, which can be taken off, serves as additional protection to avoid damages made by the cleaning personal and pointed tools. The machine housing is completely made of high-quality stainless steel. The expenditure for cleaning and maintenance is very low due to the easy disassembling of the parts of the rotor system and neat contours between the parts.



The operating zone and the HMI of the control have been arranged with a big operating comfort. The vacuum window is situated in the field of vision and in the working zone. By activating a vacuum valve, situated in the cover, the vacuum channel is being automatically cleaned.







# Linking gear

F-LINE F100-F200 is now equipped with a linking gear without limits for your production. It has especially been developed for the industry and has just proved itself. High-power toothed belts care for a maintenance free operation. For filling big diameters you can easily take off the linking gear by means of a quick-closing. Thereby, the way of the sausage meat is shortened and the greasing is minimized.

# Additional appliances

F-Line F100-F200 can flexibly be used, semi or fully automatic clipping machines can be adapted. In connection with the conveyor linking system BAS02/SA / KAS and the automatic hanging line AHL02 the performance of the sausage production can enormously be increased.





# Lifting device

F-LINE F160-F200 can be delivered with or without a hydraulic lifting device for standard trolleys. The stirring device, which is controlled by the transporting capacity and the meat guiding in the neck of the hopper, ensure a continuous charging of the rotor chambers. A fast emptying of the machine as well as a quick change of sorts is guaranteed.

# F160 - filling hopper

F-Line F160/163 is delivered with a 160-liters-hopper which is usually charged by means of a lifting and dumping device. For cleaning purposes the foot step can be tilted out. The contents of the hopper of F190/193/F200 is 300 liters. Optionally available with a divisible hopper.

# Target groups of F-Line F190/193-F200

Maschinenbau

- Medium-sized and industrial productions
- Large production of sausages
- Suitable for small calibrated products, which need a high filling pressure
- Users of conveyor linking systems BAS o2SA / KAS and AHL o2 systems
- Productions with high demands on the exactness of the portions and the quality
- Production of raw sausages with the grinding head system WK132/WK98
- Optimal suitable for all Frey C-Line componants

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Individual module of an attachment	SCA						
		Individual module of an attachment					

Attachments		Filling stuffers														
			F40	F52	F60	F100/	F103	F160	/F163	F190/F193	F200	F222/F223	F260/F263	F266	KK500	External
	Individual modules	Requirement	TC100	TC266	TC266	TC266	TC733	TC266	TC733	TC733	TC733	TC733	TC733	TC733	TC733	device
PM40			CLIP	Ok	Ok	Ok	Ok	Ok	OK	SCA						
PM75 / PM100			CLIP	Ok	Ok	Ok	Ok	Ok	OK	SCA						
PM Coex			Х	Ok	Ok	Ok	Ok	Ok	OK	SCA						
DM92		UTB30 o. CLB CAN o. CLB Linear														
DM92 linear		CLB Linear														
DM60-2		UTB30 o. CLB CAN o. CLB Linear														
DM60-2 linear		CLB Linear														
UTB 30			CLIP	OK	OK	OK	OK	OK	OK	SCA						
DMFB 90	UTB30 + DM92 + FB30/50		Х	OK	OK	OK	OK	OK	OK	SCA						
FB30/50		UTB30 o. CLB CAN o. CLB Linear														
CLB CAN			Х	CAN	CAN	CAN	CAN	CAN	CAN	Χ						
DMFB 92 CAN	CLB CAN + DM92 + FB30/50		Х	CAN	CAN	CAN	CAN	CAN	CAN	Χ						
PMFB 100 CAN	CLB CAN + PM100 + FB30/50		Х	CAN	CAN	CAN	CAN	CAN	CAN	Х						
DMFB60-2 CAN	CLB CAN + DM60-2 + FB30/50 + FT163-2		Х	CAN	CAN	CAN	CAN	CAN	CAN	X						
CLB Linear	CLB Linear + FB30/50		Х	Х	X	X	CAN	X	CAN	CAN	CAN	CAN	CAN	CAN	CAN	X
	CLB Linear + DM92 Linear		Х	X	X	X	CAN	X	CAN	CAN	CAN	CAN	CAN	CAN	CAN	Х
DMFB60-2 Linear	CLB Linear + DM60-2 + FT163-2		Х	X	X	X	CAN	X	CAN	CAN	CAN	CAN	CAN	CAN	CAN	X
CLPS320	CLB CAN + PBSE		X	CAN	CAN	CAN	CAN	CAN	CAN	X						
PBSE		CLB CAN o. CLB Linear														
WK98			Х	Х	X	SA/WK	SA/WK	SA/WK	SA/WK	SA/WK	SA/WK	SA/WK	SA/WK	SA/WK	X	Χ
WK132			Х	Х	X	X	Х	Х	Х	WK	WK	WK	WK	Х	Х	X
FT162 / FT163			Х	OK	OK	OK	OK	OK	OK	OK						
FTS162 / FTS163			Х	OK	OK	OK	OK	OK	OK	SCA/EF						
	FT162 ST + DM		Х	Х	X	X	CAN	Х	CAN	CAN	CAN	CAN	CAN	CAN	CAN	X
FTDM	FT162 + DM	CLB Linear														
PE160			Х	OK	OK	OK	OK	OK	OK	SCA/EF						
PE160S			Х	OK	OK	OK	OK	OK	OK	SCA/EF						
PETD 160			X	OK	OK	OK	OK	OK	OK	SCA/EF						
TDL60			X	OK	OK	OK	OK	OK	OK	SCA/EF						
BF50 / 70 / 100			X	OK	OK	OK	OK	OK	OK	SCA/EF						
CL6			OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
BH			OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
UFK DK20S / DK20F			OK	OK	OK OK	OK	OK OK	OK OK	OK OK	OK	OK	OK OK	OK OK	OK OK	OK OK	OK SCA/EF
			CLIP/EF	OK		OK				OK	OK					
DK40			CLIP/EF	OK	OK OK	OK	OK	OK	OK	OK	OK OK	OK OK	OK OK	OK	OK	SCA/EF
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DK60 DSFK			CLIP/EF CLIP/EF	OK OK	OK OK	OK OK	OK OK	OK OK	OK OK	SCA/EF SCA/EF						
DSFK DS Station			CLIP/EF X	OK	OK	OK	OK	OK	OK	OK OK	OK	OK OK	OK OK	OK	OK	SCA/EF SCA/EF
TW Neptune CWP				X	TW	TW	TW	TW	TW	TW	TW	TW	TW	TW	TW	SCA/EF SCA/EF
			X									KW	KW			
KW6-System Metal detector			X	OK	KW OK	KW OK	KW OK	KW OK	KW OK	KW OK	KW OK	OK	OK	KW OK	KW OK	X SCA/EF
BAS02			X	X	X	X	CAN	X	CAN	CAN	CAN	CAN	CAN	CAN	CAN	X
BAS02 SA			X	X	X	X	CAN	X	CAN	CAN	CAN	CAN	CAN	CAN	CAN	X
AHL		BAS02 o. BAS02 SA o. KAS		_^			CAIN		CAN	CAIN	CAN	CAN	CAN	CAN	CAN	_^
WS420		DAGUZ U. DAGUZ GA U. NAG	X	ETH	ETH	ETH	ETH	ETH	ETH	X						
Hitec M-3X/F			x	PC	PC	PC	PC	PC	PC	X						
KAS			X	X	X	X	CAN	X	CAN	CAN	CAN	CAN	CAN	CAN	CAN	X
KL6			X	OK	OK	OK	OK	OK	OK	SCA/EF						
COEX			X	ETH	ETH	ETH	ETH	ETH	ETH	X						
COLA	l	l .	_ ^	EIN	EIN	ЕІП	EIH	EIU	EIH	EIN	ЕІП	EIN	EIR	EIN	EIN	^





# IPC control TC 266/733 with touch screen operation





LAN/WLAN/VNC Online connection



Net remote maintenance
FREY-Service



The ultimative stuffer control system with all variety of functions consists of an industrial personal computer and a touch screen panel in the front door of the filling machine.

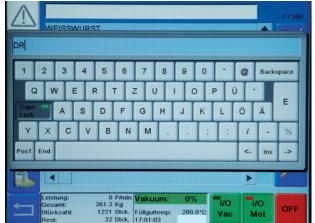
- solid hardware
- industrial PC with 733 MHz and an ergonomic 12" touch screen panel
- interfaces: CF Card, USB, Ethernet 10/100 Mbps
- online connection with your office pc via TCP/IP network connectivity
- powerful software without limits
- Logbook for the filling process and system incidents
- F-Line in connection with TC 266/733 meet the BDE standard of WS Food

# TC733 - Survey of functions



- Weight input can be chosen between 0,1 and 100.000 g (from 0,0 999,9 g in 0,1g steps)
- Number of links from o 9,9 turns
- Preselection of pauses and clipping time
- Normal- and continuous operation
- 200 filling programs with table of contents
- Programs for cooked sausage
- Service- and maintenance programs
- Diagnosis programs
- Counter of quantity and pieces, preselection of pieces
- Twist delay / twist advance of the linker
- 1 st portion makeweight
- Speed control infinitely variable also during the filling process
- Digital vacuum control optionally available is an electronic control valve for the stop of the machine and an automatic cleaning of the vacuum pump
- Automatic pressure regulation and torque regulation
- Electric pulse control for automatic clipping machines
- Relieve/sucking back mechanism
- Control of C-Line attachments
- Different languages adjustable
- Program administration with protection
- Software update per USB stick
- Interfaces: USB, Ethernet 10/100 Mbps
- Online connection with your office PC via TCP/IP connectivity
- Visualizing of the filling and linking process
- Logbook for the filling process & system incidents
- Optionally available: fill level indication







### Interface/Connection

The filling machines will be integrated in your computer network. By this way you control your filling machines from your office. The connection is done via the Freeware Software VNC which offers a full functional diversity per telecontrol. You can do all settings on the machines from your office. Load or store filling programs. Only the starting and stopping function of the machine can be activated via the operating bar.





### Casing holder device

A casing holder device DHGN for natural casings, which is easy in handling is available as an accessory for FREY vacuum stuffers. The casing holder device makes the filling process faster and easier. The casing holder DHGN2 was especially designed for natural casings. Using our casing holder devices you always get tight and solid sausages at maximum filling speed. Extra skilled staff is not required. The casing holder device is easy to assemble and can be taken off together with the linking gear. The casing tension is infinitely adjustable.

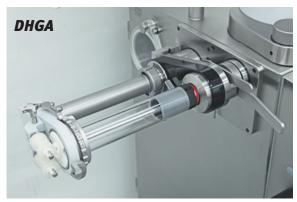
#### **DHGA**

Compared with the DHGN2 the DHGA is additionally equipped with a ceramic bearing with support for the casing holder tube (DHR) and the roller kit (ROKI). The casing holder device can also be used for collagene and cellulose casings. The DHGA ensures a continuous advance of the casing during the linking process. The DHGN2 and DHGA are maintenance-free because no drive is necessary.

# Casing spooler

We offer pneumatic casing spoolers (DA-2012/DA-2013) for natural casings. They save time to increase the productivity of the filling station. In order to come up to your product diversity, you can order special filling tubes.







#### Services

Are nowadays more and more important. The reliability of our demonstrators and technicians stands for the high quality of FREY products. Our stuffers are well-thought out even in the smallest details. They are well-known for their long service life. Our trained staff gives you also advice by phone, fax or email in order to be able to help you immediately





Technical data F-Line:	F100	F103	F160	F163
Capacity of the filling hopper: Max. performance: Filling pressure up to:	120 liters 3.600 Kg/h 40 bar	120 liters 3.000 Kg/h 55 bar	160 liters 3.600 Kg/h 40 bar	160 liters 3.000Kg/h 55 bar
Capacity of the chambers:	82 g	82 g	82 g	82 g
Number of rotor vanes:	14	14	14	14
Portioning range: Voltage / Tension: Rotor system drive: Stirrer drive: Control type: WS Food standard interface: Total connected load max.: Suction power of the vacuum put Machine weight (net)*:	5-100.000 g 400V/50Hz Servo gear TC 266/733 serial 9,5 KW mp: 21 cbm/h 650 Kg	5-100.000 g 400V/50Hz Servo gear TC 266/733 serial 9,5 Kw 21 cbm/h 650 Kg	5-100.000 g 400V/50Hz Servo gear TC 733 serial 10,5 Kw 21 cbm/h 885 Kg	5-100.000 g 400V/50Hz Servo gear TC 733 serial 10,5 Kw 21 cbm/h 885 Kg
Portioning speed max:	600 port/min.	600 port/min.	600 port/min.	600 port/min.

300 liters
4.200 Kg/h
40 bar
82 g
14
5-100.000 g
400V/50Hz
Servo
gear
TC733
serial
12,0 KW
21 cbm/h
930 Kg
600 port/min.

Servo drive of the linker optionally available (necessary for WK98), special voltage on request (increase of weight up to 60 kg). Optionally available: electronic control valve of the vacuum system WK drive necessary for WK132 system.

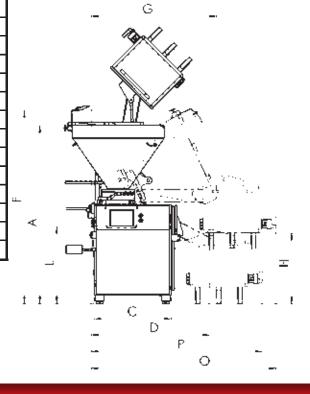
Accessories: Rotor extractor, outlet cleaner, operating instructions, counter snake, accessories holder Filling tubes flange 73: 12/24/30/42 mm, flange 35: 14/20 mm

In order to come up to your product diversity, you can receive special filling tubes or other additional equipment from us, individually made for you. On the Frey accessories trolley all accessories find their place.

We would be pleased to inform you.



	F100	F160	F160	F190			
Dimensions			F163	F193			
	F103	F163	F103	F200			
Hopper capacity	1201	160l	40/160	3001			
А	1740	1825	1810	1970			
В	930	930	930	930			
С	850	850	850	850			
D	1300	1300	1300	1300			
F	1885	1920	1965	2140			
G	1115	1188	1200	1380			
Н	648	648	648	648			
L	855	855	855	855			
	-		Lifting device				
Trolley	-	1201	120l	2001			
N	Х	2805	2805	2995			
0	Х	1880	1880	2040			
Р	Х	1745	1745	1870			
R	Х	1310	1310	1310			



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