# VACUUM



# FX JET



## **SINCE 1946**

Since 1946, Fondarex has contributed to the successful implementation of thousands of projects in vacuum die casting. Initially established as a high-pressure die casting (HPDC) foundry in Montreux, Switzerland, for over 30 years, the company produced high-quality castings.

In 1952, the first vacuum system was developed in-house for the foundry, with the aim of optimizing the part quality. During the last 45 years, the company has continuously expanded – not only in terms of customers, whose number today exceeds 1000, but also its consistent focus on product development, with an emphasis on reliability. Fondarex differentiates itself by offering its customers comprehensive advice and technological support for each individual project, based on its extensive expertise and experience. Our goal is for foundries, to be able to produce the best-quality parts as efficiently and cost-effectively as possible.

Fondarex made a great step forward in expanding the company by creating 2 new entities: "Fondarex Europe GmbH" in Dillingen, Germany, and "Fondarex Wuxi Machinery Co., Ltd" in Wuxi, China. Both new sites will have a production and a warehouse to better serve our customers.

Last but not least, over the last two years Fondarex developed a new innovative jet cooling system called FX JET so we could meet our customers' needs more effectively in terms of die cast part quality. This new development is part of a new Fondarex strategy which will soon be rounded out by complementary technologies.

These achievements are made possible only through the dedication and expertise of Fondarex's employees and, of course, our customers. Our most heartfelt **THANK YOU** for your trust and loyalty throughout these 75 years.

> D. Baumgartner CEO

K. Baumgartner President

#### COMPANY

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## FONDAREX GROUP

As part of its plan to strengthen its presence and customer support, Fondarex SA founded Fondarex Europe GmbH in Dillingen, Germany, and Fondarex (Wuxi) Machinery Co., Ltd in Wuxi, China.

### **SWITZERLAND**

The headquarters of Fondarex are where we develop our vacuum technologies for high-pressure die casting and where our production site and warehouse are located.

### **EUROPE**

Created in 2022 in Dillingen, Germany, Fondarex Europe GmbH aims to better serve our European customers in collaboration with our existing representatives. This Fondarex subsidiary will provide the newly developed FX JET as a complementary product to our vacuum technology. With the commercialization of the FX JET in April 2023, Fondarex will offer even more when it comes to the quality of die-cast parts.

### **ASIA**

After 30 years of building a reputable customer network in China, in 2021 Fondarex SA launched Fondarex (Wuxi) Machinery Co., Ltd in Wuxi, China. This Fondarex subsidiary successfully developed and produced an unique range of vacuum systems for the Chinese local market that meet the quality standards of our Swiss headquarters. Furthermore, we are able to provide the best technical service and can deliver spare parts throughout Asia more quickly.

## **FX JET**

"Achieve castings with quality" This motto led Fondarex to develop a new jet cooling concept with disruptive technology and implement a novel strategy for managing jet cooling.

Taking into account the best practices of the HPDC industry, this unit will help foundries to be more competitive on the current market with its challenging conditions.

The purpose meets the need – from simple castings all the way to the Giga sizes.

- 2 to 8 cooling channels for up to 64 controlled jet nozzles (upgradable)
- Dissipated heat and flow rate are monitored per nozzle and production cycle
- Compatible with conventional jet nozzles
- Easy to use and maintain
- Energy-efficient pump technology





Automatic filter

contamination

surveillance

From 2 to 8 cooling

channels (16 to 64

controlled jet nozzles)

Traceability for all production cycle/cast parts



All jet nozzles are temperature and flow controlled



Removable control panel

Error diagnostic display



Max. flow rate up to 100 l/min



Real time data transmission to external systems

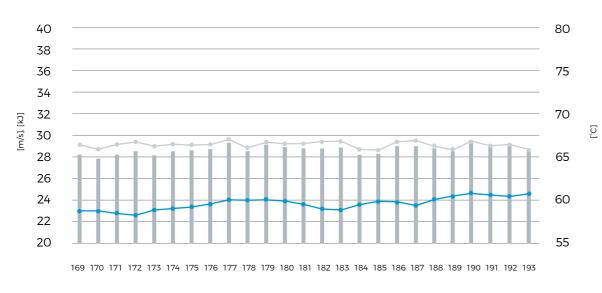








### CYCLE RECORDING

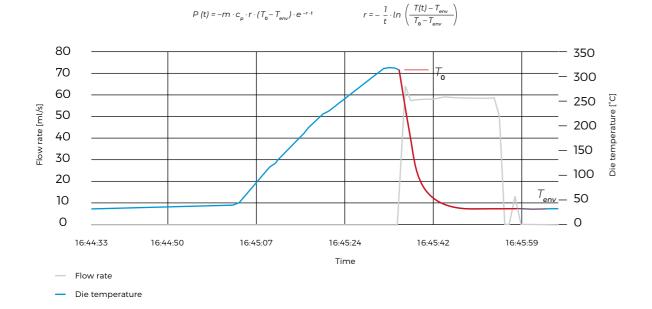


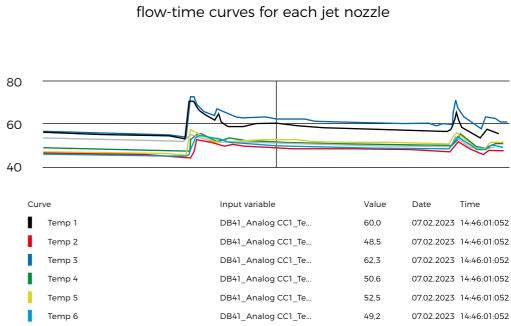
Dissipated heat

- Return temperature

### **EVALUATION OF COOLING CAPACITY**

Determination of heat dissipated per jet nozzle and production cycle







Temp 7

Temp 8

### **INDIVIDUAL CURVE TEMPERATURE PER JET**

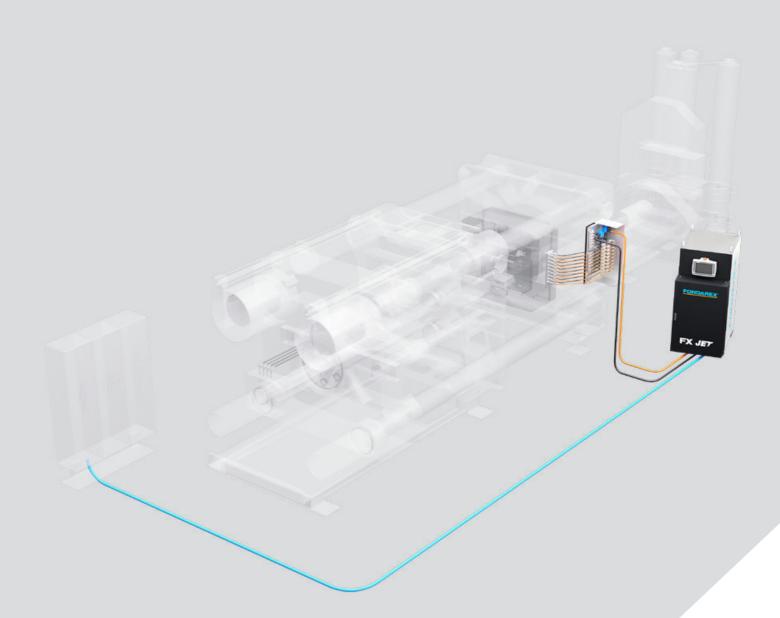
### Recording of temperature-time and

Input variable	Value	Date	Time
DB41_Analog CC1_Te	60,0	07.02.2023	14:46:01:052
DB41_Analog CC1_Te	48,5	07.02.2023	14:46:01:052
DB41_Analog CC1_Te	62,3	07.02.2023	14:46:01:052
DB41_Analog CC1_Te	50,6	07.02.2023	14:46:01:052
DB41_Analog CC1_Te	52,5	07.02.2023	14:46:01:052
DB41_Analog CC1_Te	49,2	07.02.2023	14:46:01:052
DB41_Analog CC1_Te	47,5	07.02.2023	14:46:01:052
DB41_Analog CC1_Te	50,9	07.02.2023	14:46:01:052

active active Recipes System
------------------------------

Flow rate

MODEL	FX JET
MAX. TEMP. FORWARD	60°C
HEAT-TRANSFER MEDIUM	Water
MAIN CIRCUITS	4 (Optional 8)
PINS	32 (Optional 64)
TEMPERATURE CONTROL	Monitored
DEIONISER	Integrated and automatically controlled
FLOW MEASUREMENT	Integrated
AIR PRESSURE	Integrated
MANUAL RINSING FUNCTION	Integrated
WATER-PRESSURE MEASUREMENT	Integrated
PIN-BREAK MONITORING	Integrated
CURVE / PIN	Integrated
FAULT DIAGNOSIS	Integrated
FAULT RECORDING	Integrated
PULSE OPERATION MODE	Integrated
TANK CAPACITY [l]	250
DATA MEMORY & TRANSFER	Integrated
TOUCHSCREEN	Removable HMI
COOLER	Inox heat exchanger
PUMP TYPE	Centrifugal pump
MAX. FLOW RATE	100 l/min
POWER CONSUMPTION	5,5 kw
MAX. PRESSURE	24 bar
CONTROL SYSTEM	Siemens SPS
CONNECTION VOLTAGE	400 V / 50 Hz / 32 A
EXT. CONTROL VOLTAGE	Internally generated control voltage DC24V
COMPRESSED AIR CONNECTION	3/8 "
COOLING WATER FITTING	3/8 "
DISTRIBUTOR FITTING	3/8 "
PROTECTION CLASS	IP54
DIMENSIONS W X H X D [mm]	800 x 1700 x 1200
WEIGHT [kg]	500 / 600



**FX JET** 







18-19



## **FX PREMIUM**

26-31

32-33



## MODULAR

34-35

20-21



ELECTRIC 15

TWO

TWO

A

**ELECTRIC** 

ONE

**ONE** 

ΖΛΜΛΚ

8



**STEEL VENTS** 

**KINETIC VALVES** 







36-37

HYDRAULIC VALVE

## ELECTRIC

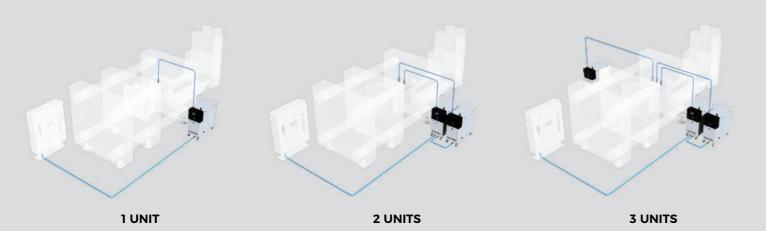
### MOBILE

This new, fully electric vacuum system concept allows up to 3 electric units to be connected together on 1 DCM.

- Compact solution
- Simplified interface
- Affordable unit
- No installation assistance required
- No need for compressed air
- Upgradable up to 3 vacuum channels
- Compatible with any DCM
- Available for Zamak applications

### **POSSIBLE CONFIGURATIONS**

Start with 1 controller unit and add 1 or 2 additional units at any time.





## **ONE/TWO** MOBILE/CELL/CENTRAL

The Fondarex ONE system controls 1 vacuum valve or 1 chill vent and is suitable for die casting machines up to 800 t. The Fondarex TWO system controls 2 valves or 2 chill vents and is recommended for die casting machines up to 1400 t.

- 1 or 2 vacuum channels
- Easy-to-install system
- Compatible with any vent or mechanical valve
- Easy to use and maintain
- Available for Zamak applications

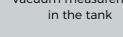


**M** 





Curve display of vacuum measurement



Vacuum measurement Filter contamination

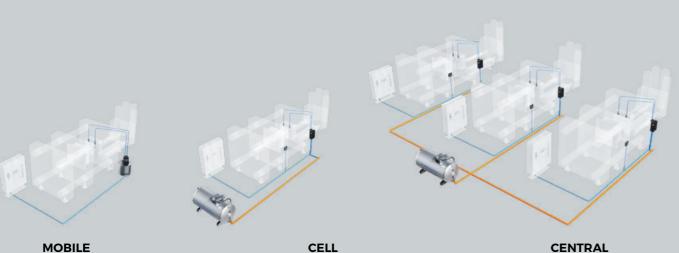




Valve/vent profile control to ensure performance

Internal storage of 50 production recipes

Error diagnostic display







## ZAMAK

### MOBILE / EXTENDED / CENTRAL

Based on the FX Premium concept, this unit is specifically adapted for the hot-chamber die casting industry.

- Fast vacuum opening
- Vacuum control
- Data transfer
- OPC UA ready
- Compact design





Curve display of vacuum measurement

Internal storage of

500 production recipes

Evacuated

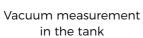
air volume

Wire interface

compatible with the Highvac Premium series

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**P** 



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TP

Error diagnostic

display

F

Leak test /

leak detection

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Profinet interface

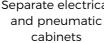
Filter contamination control per cycle



Vacuum control (3 positions)



Separate electrical











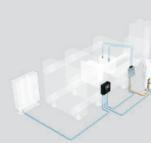
OPC UA ready



Extended version with flexible configuration







MOBILE

EXTENDED





CENTRAL



## **FX PREMIUM**

### MOBILE

Since the launch of the Highvac series in 2010, the Highvac Premium system has been internationally recognized as the quality standard for vacuum-assisted high-pressure die casting. Now being replaced by FX Premium.

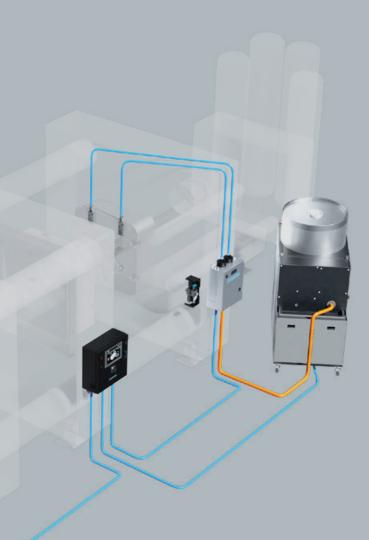


MOBILE

## FX PREMIUM EXTENDED

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Full flexibility of configuration and placement. Simply position the modules to best suit your layout. To ensure the best performance and quality, link the vacuum channels closer to the die.



### **FEATURES**



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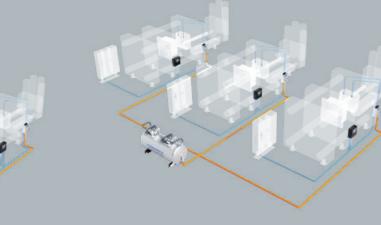


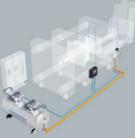
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## **FX PREMIUM** CELL/CENTRAL





















## MODULAR CELL/CENTRAL

A new vacuum concept to meet the demands of the Giga Era and greater casting size.

The Fondarex Modular system allows independent placement of the modules.

The user interface has also been completely redesigned for ease of operation, offering more precise control and comprehensive process analysis.

The system comes with all of the standard controls and features for which Fondarex machines are known.



## MODULAR **FEATURES**

FONDAREX

Internal storage of

500 production recipes

Leak test /

TNETT





Valve/vent profile control to ensure





compatible with the









Error diagnostic



**OPC UA** 





### **OPTIONS**



**INDUSTRY 4.0** 

and quality reports. This option includes a web



#### **AIR HUMIDITY**

needed around the DCM, allowing you to work as closely as



#### ID KEY

security with up to

### ()

#### REAL-TIME VACUUM CONTROL

The high-speed control is done independently



#### AIRFLOW MEASUREMENT



### INDIVIDUAL VACUUM CHANNELS



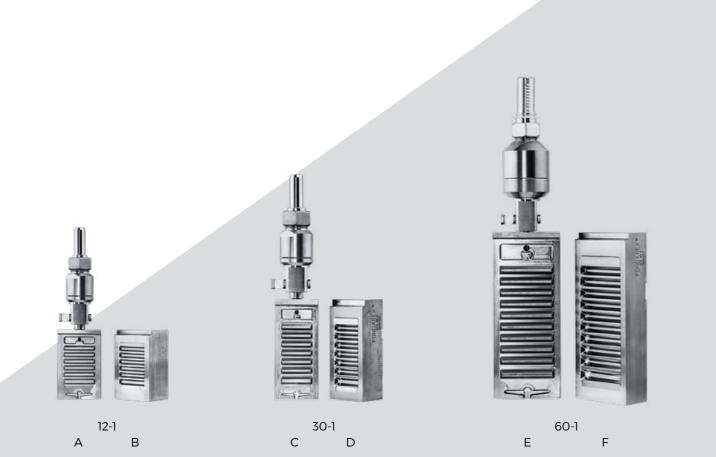
#### REMOTE CONTROL PANEL

close as possible to the

GIGA CASTINGS

robust, modern technology to guarantee







100-1 G H

## **STEEL VENTS**

The aerodynamic profile of our SCS steel vent ensures both efficient air evacuation and fast alloy solidification. The SCS steel vent delivers reliable performance for over 400,000 shots.

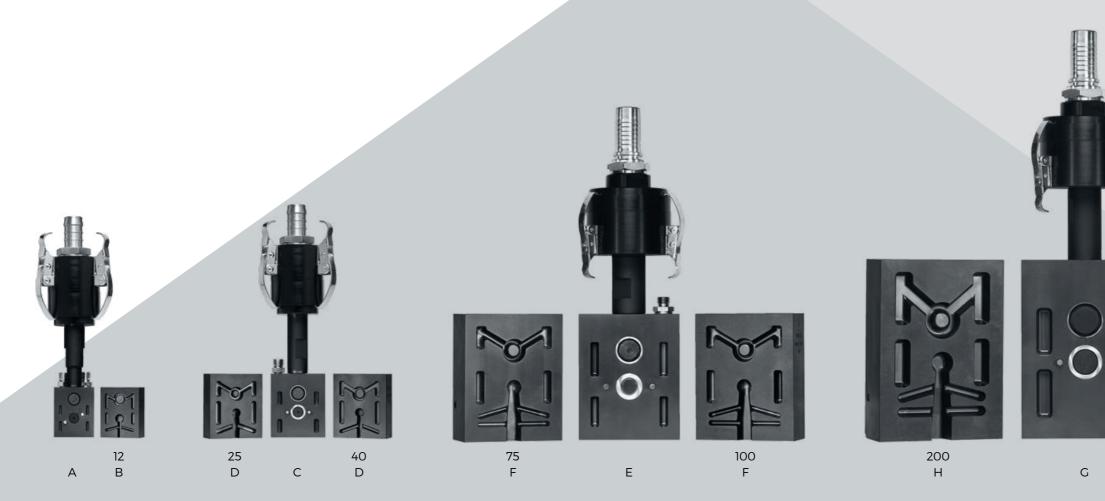
MODEL	SCCZ	Z 12-1	scs	30-1	SCS	60-1	SCS	100-1	SCS	140-1
SECTION [mm <sup>2</sup> ]	12		3	0	6	0	10	00	14	40
DCM TONNAGE [t]	< 200 approx.		< 400 a	approx.	200 -	1200	800 -	2800	1600 -	- 4500
SHOT WEIGHT AI [kg]	/		0.1 -	- 1.5	0.7 – 10		5 -	22	10 -	- 40
SHOT WEIGHT Mg [kg]	0.05 - 0.8		0.07 - 1 0.5 - 6		- 6	3 -	12	6 -	26	
SHOT WEIGHT Zn [kg]	0.1	0.1 - 3		- 4	1 -	20		/	,	/
DIMENSIONS	А	В	С	D	E	F	G	Н	I	J
WIDTH [mm]	63	63	63	63	100	100	140	140	150	150
DEPTH [mm]	63.4	63.5	50	50	50	50	60	60	80	80
HEIGHT [mm]	100	99	150	149	250	249	300	299	360	359



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## **KINETIC VALVES**

A new family of mechanical valves that give you high evacuation capacity, high reliability and compact size at a competitive price.

- The proper way to reach high vacuum
- Up to 300 mm<sup>2</sup> evacuation capacity
- Compact design for better mold integration
- Less weight for easy handling
- Available in 4 sizes and 7 evacuation sections

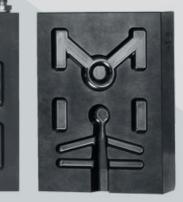
#### LOW AND EASY MAINTENANCE

Simplified mechanism to reduce the number of moving parts and to lower maintenance costs. Available on: **KINETIC VALVES** 100 / 75 300 / 200





MODEL	KINETIC 12		VE KINETIC VALVE 40/25		KINETIC VALVE 100 / 75		KINETIC VALVE 300 / 200	
PROFILE [mm <sup>2</sup> ]	1 12		25 40		75 100		200 300	
DCM TONNAGE [t]	TONNAGE [t] 20 - 200		80 - 800		200 - 2000		1200 - 6000	
SHOT WEIGHT [kg]	ZN 0.	.1 – 2				8 - 14 6 - 15	AL 7	- 50
DIMENSIONS	А	В	С	D	E F		G	Н
WIDTH [mm]	40	40	55	55	100	100	125	125
DEPTH [mm]	44	20	50	25	75	50	95.5	57.5
HEIGHT [mm]	50	50	65	65	125	125	175	175



300 H

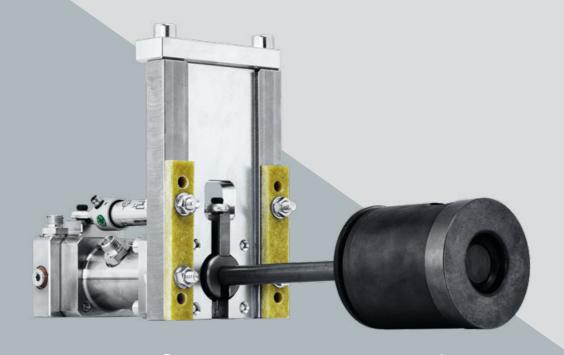
INTEGRATED COOLING CIRCUIT



#### REDESIGNED FILTER

New robust filter for easy and quick maintenance.





## HYDRAULIC VALVE

The redesign of the hydraulic vacuum valve features high evacuation capacity, great reliability, easy integration into the mold and smart control of the evacuation piston stroke.

- Vacuum valve controlled by a hydraulic cylinder
- 300 mm<sup>2</sup> vacuum valve evacuation capacity
- Reactive manifold connected to the hydraulic circuit of the DCM
- 50 ms hydraulic valve closing time
- Stroke control of the evacuation piston through the Fondarex Modular unit

#### MODEL

SECTION [mm<sup>2</sup>] DCM TONNAGE [t] SHOT WEIGHT [kg] VACUUM VALVE BODY DIMENSIONS [mm] VACUUM VALVE BODY ATTACHMENT VACUUM PISTON ROD DIAMETER [mm] DIAMETER VACUUM PISTON ROD [mm]

MODEL	HYDRAULIC CYLINDER WITH COUPLING (B)
LENGTH [mm]	187
WIDTH [mm]	110
HEIGHT [mm]	200

#### MOLD VACUUM VALVE (A)

300	
6000	
AL 7 – 50	
80 Ø x 95	
4 x M8 90 x 50	
Up to 900	
20 Ø	

#### MANIFOLD

#### ELECTRICAL CABINET

266	400
139	210
268	300



## **TECHNICAL SUPPORT**

Our experienced engineers provide support at your production sites.

> We take care of mold design, installation/start-up, on-site training and maintenance.

Your continued satisfaction is our primary goal.

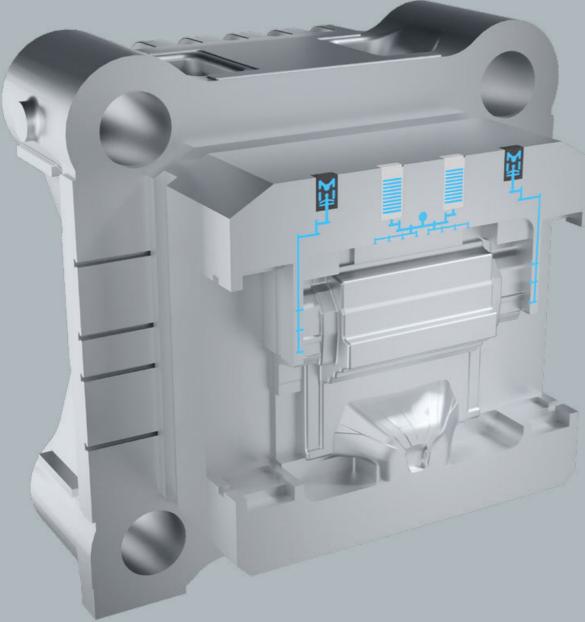
### **REMOTE ASSISTANCE**

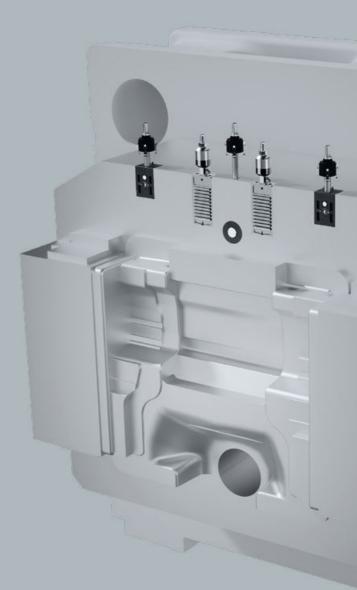
Our experts can provide real-time instructions and guidance for faster troubleshooting.

#### FONDAREX / 39



# VACUUM APPLICATIONS





#### SIMULATION

#### CHANNEL DESIGN

### **TECHNICAL DATA**

MODEL	ELECTRIC	ONE / TWO	ZAMAK HOT-CHAMBER	FX PREMIUM
TYPE OF VACUUM UNIT	Mobile	Mobile	Mobile Extended	Mobile Extended
TANK [l]	150	300 500	300	700 950
PUMP [m³/h]	25	40	40	63 100 (Also with model 700)
CHANNELS	Up to 3	1 2	2	2
TYPE OF DIE CAST PROJECT	Simple parts	Standard parts	All zinc parts	Complex and security parts
DCM [t]	Up to 600	Up to 800 Up to 1400	Up to 800	Up to 2200 Up to 3000
DIMENSIONS L X D X H [m]	1.05 x 0.4 x 1.15	0.7 x 0.7 x 1.8 0.9 x 1.0 x 1.8	1.2 x 0.59 x 1.43	0.9 x 1.3 x 1.5 0.9 x 1.3 x 1.9
INTERFACE	Potential free contacts	Potential free contacts	Potential free contacts Optional Profinet	Potential free contacts Optional Profinet
DATA MANAGEMENT	Internal log data	Internal log data	Data communication	Data communication
VACUUM MEASUREMENT IN THE TANK	ОК	OK	OK	ОК
ERROR DIAGNOSTIC DISPLAY	ОК	OK	OK	ОК
PRODUCTION DATA (INTERNAL STORAGE)	OK	OK	OK	OK
PRODUCTION DATA (EXPORT)	ОК	OK	OK	ОК
STANDBY MODE FOR ENERGY SAVING	OK	OK	OK	ОК
EVACUATED AIR VOLUME	OK	1	OK	ОК
COMPATIBLE WITH CHILL VENTS	ОК	OK	OK	ОК
COMPATIBLE WITH MECHANICAL VALVES		ОК	ОК	OK
VACUUM MEASUREMENT BY CHANNEL		OK	OK	ОК
VACUUM PROCESS OVERVIEW		OK	OK	ОК
REMOTE CONTROL PANEL		Optional	OK (Optional connection cables)	OK (Optional connection cables)
CONTAMINATION CONTROL		OK	OK	ОК
PROFILE CONTROL		OK	/	ОК
VACUUM CURVE DISPLAY		OK	OK	OK
ANALOG CURVE DISPLAY ON DCM			Optional	Optional
LEAK DETECTION			OK	ОК
VACUUM CONTROL			OK (3 positions)	OK (3 positions)
REMOTE ASSISTANCE (EWON)			Optional	Optional
ADVANCED COMMUNICATION PROCESSOR			Optional, CP or OPC UA	Optional, CP or OPC UA

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MODEL	FACTORY VACUUM	ONE / TWO	ZAMAK HOT-CHAMBER	FX PREMIUM	MODULAR
TYPE OF VACUUM UNIT	Cell (Central + Factory Vacuum)	Cell Central	Central	Cell Central	Cell Central
TANK [l]	1000 2000 3000 4000 and more	/	1		/
PUMP [m³/h]	1x/2x 100 1x/2x 160 1x/2x 200 1x/2x 250 1x/2x 300 and more	/	/ /		/
CHANNELS	All	1 2	2		Standard up to 6
TYPE OF DIE CAST PROJECT	All	Standard and complex parts	Standard, complex and security parts	Standard, complex and security parts	Complex, security, structural parts and Giga Casting
DCM [t]	All	800 to 1400	Up to 800	Up to 3000	All
DIMENSIONS L X D X H [m]		0.4 x 0.3 x 0.7	Main cabinet 0.5 x 0.21 x 0.5 Channel cabinet 0.4 x 0.21 x 0.5	Main cabinet 0.5 x 0.21 x 0.5 Channel cabinet 0.4 x 0.21 x 0.5	User cabinet 0.313 x 0.112 x 0.38 Standard main cabinet 0.8 x 0.3 x 1.0 Extended main cabinet 0.8 x 0.6 x 2.0 Channel cabinet 0.3055 x 0.3 x 1.05
INTERFACE		Potential free contacts	Potential free contacts Optional Profinet	Potential free contacts Optional Profinet	Optional potential free contacts Optional Profinet / Profibus / OPC UA
DATA MANAGEMENT		Internal log data	Data communication	Data communication	Data analysis and communication
VACUUM MEASUREMENT IN THE PIPELINE		OK	ОК	ОК	ОК
ERROR DIAGNOSTICS		OK	ОК	ОК	ОК
PRODUCTION DATA (INTERNAL STORAGE)		OK	ОК	ОК	ОК
PRODUCTION DATA (EXPORT)		OK	ОК	ОК	ОК
STANDBY MODE FOR ENERGY SAVING		OK	OK	ОК	OK
VACUUM MEASUREMENT BY CHANNEL		OK	OK	ОК	OK
VACUUM PROCESS OVERVIEW		OK	OK	ОК	OK
REMOTE CONTROL PANEL		Optional	OK (Optional connection cables)	OK (Optional connection cables)	ОК
VACUUM CURVE DISPLAY		ОК	OK	OK	ОК
CONTAMINATION CONTROL		ОК	OK	OK	ОК
PROFILE CONTROL		OK	/	OK	ОК
COMPATIBLE WITH CHILL VENTS		OK	ОК	OK	ОК
COMPATIBLE WITH MECHANICAL VALVES		ОК	OK	OK	ОК
COMPATIBLE WITH HYDRAULIC VALVES			/		ОК
EVACUATED AIR VOLUME			OK	OK	ОК
LEAK DETECTION			OK	OK	ОК
VACUUM CONTROL			OK (3 positions)	OK (3 positions)	Optional, real-time
ANALOG CURVE DISPLAY ON DCM			Optional	Optional	Optional
REMOTE ASSISTANCE (EWON)			Optional	Optional	Optional
ADVANCED COMMUNICATION PROCESSOR			Optional, CP or OPC UA	Optional, CP or OPC UA	Optional, CP or OPC UA
INDUSTRY 4.0 (WITH WEB DASHBOARD)					Optional
AIRFLOW / AIR VOLUME MEASUREMENT					Optional
ID KEY					Optional
					Optional
HUMIDITY CONTROL					Optional
SIGNAL MODE WITHOUT TIMER					ОК
STROKE MODE (WITH PISTON POSITION)					ОК
INDEPENDENT CHANNELS					ОК
PRESSURIZING					ОК
VACUUM ON SHOOT SLEEVE					ОК
VACUUM ON EJECTOR CASE					ОК

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F

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