

Mould testing units



FPG 1000-5000

Cleaning, purging, pressure and flow
measurements of cooling channels

krumm
tec

Cleaning technologies

Specifications and options

	FPG 1000	FPG 2000	FPG 3000	FPG 4000
Channels	1	2	4	6
Pressure test	7 bar	7 bar	7 bar	7 bar
Cleaning pressure medium	2–4 bar	2–4 bar	2–4 bar	2–4 bar
Necessary compressed air connection	6 bar	6 bar	6 bar	6 bar
Volume flow / Pump	18 l/min	18 l/min	18 l/min	18 l/min
Power connection V/A / Hz	400/16 / 50	400/16 / 50	400/16 / 50	400/16 / 50
Tank capacity min./max.	30 l	60/100 l	80/150 l	100/150 l
Filter element min./max.	100/300 µ	100/300 µ	100/300 µ	100/300 µ
Dimensions (LxBxH)	800x800x1120mm	1200x1000x1200mm	1440x1250x1200mm	1640x1250x1200mm
Weight	180 kg	400 kg	500 kg	550 kg
Stainless steel pumps and fittings	✓	✓	✓	✓
Carrier medium: Water with corrosion protection	✓	✓	✓	✓
Mechanical change of direction of purging	✓	✓	✓	✓
Bypass function	✓	✓	✓	✓
Blow dry with compressed air	✓	✓	✓	✓
Volume flow control	✓	✓	✓	✓
Pressing up to 7 bar	✓	✓	✓	✓
Refuelling and emptying nozzle	✓	✓	✓	✓
Filtration system	✓	✓	✓	✓
Level monitoring	✓	✓	✓	✓
Connection tubes 3m + mount	✓	✓	✓	✓
Plant mobile with wheels	✓	✓	✓	✓
Pressure and temperature indicator	✓	✓	✓	✓
CE-certified (Conformity with the applicable EC directive)	✓	✓	✓	✓
Digital flow meter	●	●	●	●
Evaluation device: Data logger/SD-card	●	●	●	●
Evaluation device: Notebook	●	●	●	●
Automatic mode SPS	●	●	●	●
Hydraulic	–	●	●	●
Cooling	–	●	●	●
Heating: 32 A / 60°C	●	●	●	●
Pump extension 40 l/min	●	●	●	●

At a glance

FPG 1000–4000

Krumm-tec mould testing units are used for cleaning, purging and for pressure and flow measurements for one up to six cooling channels. Depending on the model, the mould testing units can be heated and cooled, have a hydraulic system for opening and closing the core pulls. Furthermore, they may be equipped with various digital documentation and evaluation devices, such as a SD-card or a notebook.



CLEANING

Cleaning, filtering and purging cooling channels



TEMPERATURE

Heating and cooling of the media



HYDRAULIC

For opening and closing the core pulls



DRAINING

Leakage checking



PH-VALUE

Monitoring of the pH-value



FLOW

Flow measurement



DOCUMENTATION

For reading out the flow volumes to data carriers



NOTEBOOK

For documenting the flow volumes

FPG 1000

- 1 channel
- Cleaning pressure 2–4 bar
- Volume flow 18 l/min
- Tank capacity 30 l
- Dimensions 800×800×1120mm



FPG 2000

- 2 channels
- Cleaning pressure 2–4 bar
- Volume flow 18 l/min
- Tank capacity 60 l
- Dimensions 1200×1000×1200mm



FPG 3000

- 4 channels
- Cleaning pressure 2–4 bar
- Volume flow 18 l/min
- Tank capacity 80 l
- Dimensions 1440×1250×1200mm



FPG 4000

- 6 channels
- Cleaning pressure 2–4 bar
- Volume flow 18 l/min
- Tank capacity 100 l
- Dimensions 1640×1250×1200mm



FPG Touch – Fully automatic cooling channel mould testing unit with touch display

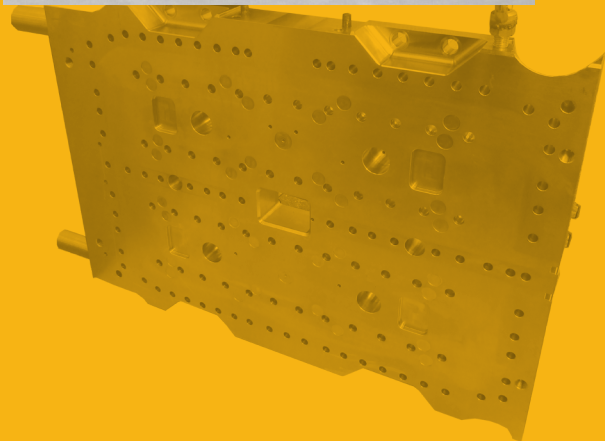
The FPG touch has an integrated Siemens KTP Comfort control display for a user-friendly and time-saving operation: Start of a program via personnel number, tool recognition via number entry, automatic program sequences and communication via wifi. The information gathered is available digitally and can be exported in the usual formats: comma-separated file format (CSV) and SQL databases. The mould testing unit can be programmed in all languages.

- ✓ Cleaning, purging and filtering of cooling channels
- ✓ Leakage checking (air and media)
- ✓ Complete emptying of cooling channels
- ✓ Draining of cooling channels
- ✓ Rinsing and dry flushing
- ✓ Bypass function with ball valves
- ✓ Digital display of flow rate
- ✓ Manual change of flow direction
- ✓ Monitoring of pH value
- ✓ Flow measurement
- ✓ Filter change with hour counter



Specifications



Dimensions	1000×800×1100mm
Max. pressure	7 bar
Cleaning pressure	3 bar
Max. volume flow	20 l/min
Measuring range	2–20 l/min
Power connection	380V/16A
Air pressure	6 bar
Tank capacity	80/100 Liter
Filter element	300 µ
Max. diameter	10mm
Display	Siemens KTP Comfort



FPG 5000 – Cleaning of heat transferring surfaces in temperature control circuits

The cleaning device FPG 5000 is used for cleaning, purging and preserving tool circuits. The device provides the cleaning, neutralizing and preserving agents in the required amounts. Rinsing and conservation prepare the circuits for a repeated use or safe storage, the automatic backflow of the medium optimizes the cleaning result. Krumm-tec will gladly assist you in choosing detergents which meet your requirements.



-  Chemical application
-  Neutralisation

	1 channel	2 channels	4 channels	6 channels
Channels	1	2	4	6
Cleaning pressure medium	2-4 bar	2-4 bar	2-4 bar	2-4 bar
Necessary compressed air connection	6 bar	6 bar	6 bar	6 bar
Volume flow / Pump	30 l/min	30 l/min	30 l/min	30 l/min
Power connection V/A / Hz	400/16 / 50	400/16 / 50	400/16 / 50	400/16 / 50
Separated S.S. tank (Cleaning/Neutral)	100 l / 100 l	100 l / 100 l	150 l / 150 l	150 l / 150 l
Filter element min./max.	100/300 µ	100/300 µ	100/300 µ	100/300 µ
Dimensions (LxBxH)	1440x1250x1200mm	1440x1250x1200mm	1440x1250x1200mm	1440x1250x1200mm
Weight	500 kg	500 kg	500 kg	500 kg
S.S. pumps and fittings	✓	✓	✓	✓
Chemical cleaning medium	✓	✓	✓	✓
Neutral cleaning medium	✓	✓	✓	✓
Mechanical change of direction of purging	✓	✓	✓	✓
Bypass function	✓	✓	✓	✓
Blow dry with compressed air	✓	✓	✓	✓
Volume flow control	✓	✓	✓	✓
Refuelling and emptying nozzle	✓	✓	✓	✓
Filtration system	✓	✓	✓	✓
Level monitoring	✓	✓	✓	✓
Connection tubes 3m + mount	✓	✓	✓	✓
Plant mobile with wheels	✓	✓	✓	✓
Pressure and temperature indicator	✓	✓	✓	✓
Integrated S.S. collection tray	✓	✓	✓	✓
pH value indicator	✓	✓	✓	✓
CE-certified (Conformity with the applicable EC directive)	✓	✓	✓	✓



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