



Fontijne
PRESSES



Fontijne Presses BV

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OUR MISSION

We want to build for our customers the most suitable laboratory platen press according to the specific requirements for their particular application. By means of modern techniques, smart developments, customization, it is our aim to deliver products of the highest quality and reliability. Our customers expect uninterrupted operation of their equipment in order to keep their own production, development and quality programs at optimal efficiency. With us, their journey continues.

WHO WE ARE

Fontijne Presses BV – based in Delft, The Netherlands – is a specialized and highly praised manufacturer of laboratory platen presses. Today, Fontijne Presses has an installed base of more than 2.000 laboratory platen presses around the world.

From its inception back in 1909 Fontijne Presses focused on delivering reference grade quality.

In 2017, Aptco Technologies acquired Fontijne Presses. A win-win for both companies, as Aptco Technologies wanted to invest in the unique knowledge and manufacturing techniques to build high quality laboratory platen presses, while Fontijne Presses benefits from the scale and the global organization of Aptco Technologies.



TAFELPERSEN • TABLE PRESSES • PRESSES DE TABLE • TISCHPRESSEN



FONTIJNE
VLAARDINGEN - HOLLAND



INSTALLED

more than
2000 presses
in the field



EXPERIENCE

110 years
experience building
hydraulic presses

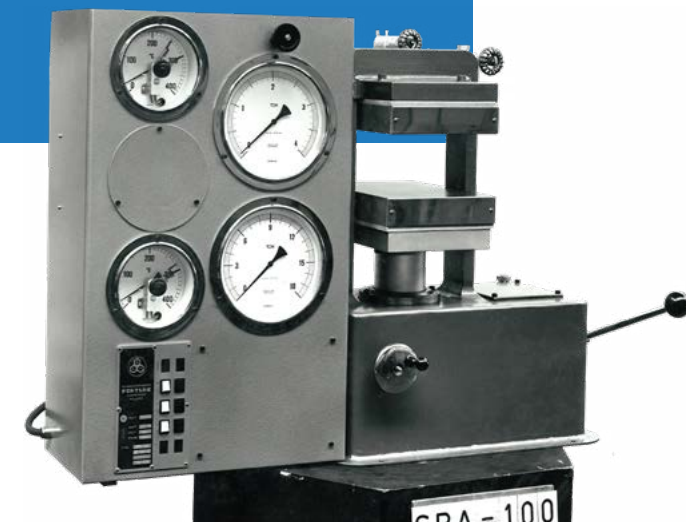


LIFE CYCLE

average life cycle
more than 20 years

WHY PROFESSIONALS CHOOSE FONTIJNE PRESSES

- Presses, nothing else
- In-depth customizing
- Built to last
- More than 100 years of expertise
- We are certified
- In-house engineering
- First rate service





Rubber

To examine the quality of rubber for example, a sample is taken from the production batch and pressed into a die. Next, the sample will be vulcanised (e.g. according to the ASTM D 3182 norm), after which it is ready to be used for elongation tests, or to test density, Mooney viscosity, ash content, bromine and chlorine content.



Polymers

Our laboratory presses are widely used for the preparation of polymer samples, such as PE, PP, PS, ABS and many more. In order to precisely determine the physical properties of polymers, samples that are pressed under accurately controlled conditions (following international standards) are needed. This way, properties like tensile strength, flexure and impact can be tested. Furthermore, compression moulded polymer samples are also used for colour testing, weathering and XRF analysis.



Composites

Our presses enable ground-breaking and industry leading research into composite materials. They assist your investigation to develop cost effective manufacturing technology for lightweight composite structures, as used in aerospace (unmanned aircraft structures) and automotive (sports car bodies) industries.

Other applications

Apart from quality control and R&D support in the rubber, polymer and composite industries, these presses are also widely used to prepare samples in wood, plywood, textiles, ceramics, laminating (credit cards, ID cards), silicones, thermoplastic resins, etc.

Furthermore, Fontijne Presses is a familiar name in universities where the presses are used for educational and research purposes.

FONTIJNE PRESSES PRODUCTS & SERVICES



We believe that high-quality machines need first-class service. This is why we have a number of experienced service engineers available who can quickly be deployed all over the world for preventive maintenance, repairs and calibration services. This way, machine downtime can be kept to an absolute minimum.

To make sure your press continues to operate reliably and within specifications at all times, we have a full line of original spare parts available. And since our presses have an exceptionally long lifespan – often spanning several decades –, we provide a wide variety of solutions to improve or rebuild aging presses. This way, your press will remain state of the art for many years.



Fontijne Presses holds a ISO 9001 Quality Management System (QMS) certification - proof of compliance with the requirements laid down in the standard: NEN-EN-ISO 9001:2015. This states our total commitment to superior quality system management and our focus on customer requirements and needs, and organization-wide approach to continuous quality improvement.



LabManual 50/300

The LabManual series are manually operated hydraulic laboratory presses. These highly acclaimed benchtop devices are used in many laboratories around the world to prepare samples for quality control and R&D purposes.

The LabManual series can – depending on the model 50 or 300 – handle pressing needs up to 50kN and 300kN at 200°C or 300°C, but also allows the use of low closing forces.

LabManual		50	300
Closing force range	kN	1 - 50	1 - 300
Platen size	mm	200x200	320x320
Specific pressure with full load	N/mm ²	1,25	2,93
Specific pressure with 150 x 150mm load	N/mm ²	2,22	13,30
Maximum temperature	°C	200	300
Daylight <small>Refers to the opening between the upper and the lower platen</small>	mm	150	140 (only heating) 100 (heating/cooling)
Amperage	A	16	16
Voltage	V	230	230
Length	mm	450	500
Width	mm	350	500
Height	mm	600	800
Weight	kg	70	275

Whichever settings you choose, the results will prove to be accurate and consistent over time. Thanks to its modest footprint, the LabManual can easily get installed in any lab. Furthermore, the unit's closed hydraulics operation prevents oil from leaking. The LabManual is designed with safety in mind, while its ergonomic design and straightforward operation make life easier for laboratory technicians. Fontijne Presses' LabManual press is the right choice for applications that need accuracy and consistency, but where the number of samples to be processed is moderate, allowing manual operation.

Fontijne Presses B.V. reserves the right to make technical changes to the products shown.

LabEcon

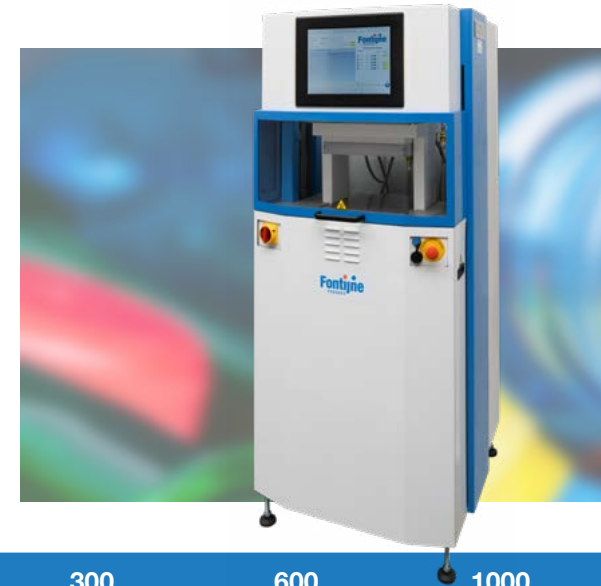
300/600/1000

Fontijne Presses' floor standing LabEcon series – available with a press range of 300, 600 or 1000 kN – is an automated hydraulic laboratory press, which incorporates many features and qualities of the top-of-the-line LabPro series.

The critically acclaimed LabEcon series is known for his accurate and consistent pressing quality, and is therefore widely chosen as sample preparation press for quality control and R&D. Depending on the model – 300, 600, 1000 – the press range goes up to 300, 600 or 1000 kN at 300°C. Regardless of the model or settings used, the results will always be accurate and consistent.

The unit's small footprint allows it to get installed easily in the lab, while its ergonomic design and straightforward touchscreen interface are appreciated by lab technicians. Furthermore, the LabEcon series incorporates many additional safety features, such as a fixed upper platen, an emergency stop system and a safety shield. The LabEcon series is recommended for all demanding quality control and R&D applications where accuracy and consistency are prerequisites.

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LabEcon		300	600	1000
Closing force range*	kN	1 - 300	1 - 600	1 - 1000
Platen size*	mm	320x320	400x400	500x500
Specific pressure with full load	N/mm ²	2,93	3,75	4
Specific pressure with 250 x 250mm load <small>Max. press force on steel 25 N/mm²</small>	N/mm ²	4,8	9,6	16
Maximum temperature	°C	300 (optionally up to 400°C)	300 (optionally up to 400°C)	300 (optionally up to 400°C)
Standard daylight opening* <small>Refers to the opening between the upper and lower platen</small>	mm	200	200	200
Amperage	A	16	32	32
Voltage	V	3 x 400V/50 Hz + zero + ground 3 x 480V/60 Hz + zero + ground		
Length	mm	790	790	790
Width	mm	880	880	880
Height	mm	1790	1790	1790
Weight	kg	600	800	1000

LabPro

Meet LabPro, a series of highly customizable state-of-the-art laboratory presses. LabPro presses are known for their exquisite and consistent pressing quality and are used in demanding laboratory environments and R&D facilities around the world.

Even though the closing force of the most powerful LabPro model can reach up to more than 5.000 kN, pressings that need much lower closing forces – 10 kN or less – will be handled with the same accuracy and consistency. The LabPro press is largely automated and is equipped with a user-friendly touch screen control interface. Moreover, the integrated preset builder allows lab technicians to build and store up to 999 press recipes. Our LabPro series are designed with the safety of the operator in mind. The CE-certified LabPro series therefore incorporates many safety features, such as a fixed upper platen, an emergency stop system and a safety shield. An extensive range of options is available for the LabPro series, including a unique and very effective vacuum system which allows the use of high temperatures under vacuum conditions. LabPro is the right choice for the most demanding quality control and R&D applications, as well as for the preparation of specific sample materials that need a custom approach.



LabPro		
Max. closing force	kN	up to 5000 kN
Platen size	mm	several sizes from 225 x 225 up to 1000 x 1000mm
Daylight opening/stroke	mm	from 100 to 1000mm
Stroke max	mm	1000
Voltage	V	3 x 400V/50 Hz + zero + ground 3 x 480V/60HZ + zero + ground

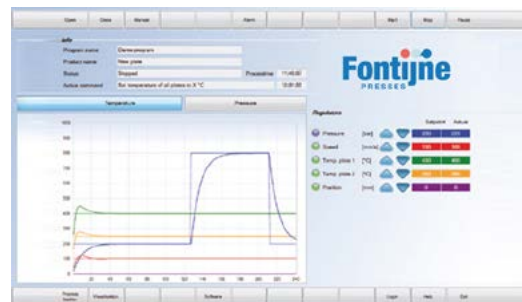
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TP control

- Compact temperature & pressure controllers, with timer

ProView control

- 15" touch panel, automatic temperature & pressure control
- Frequency controller to control the speed during the final closing phase
- Heating and cooling ramp functions
- Pressureless preheating
- Graphical representation of the process
- Data recording & USB export options
- Different access levels
- Compose and store up to 999 presets



FONTIJNE PRESSES SOME OF OUR CUSTOMERS





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