



**Fontijne**  
PRESSES



## Fontijne Presses & Services BV

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## OUR MISSION

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We want to build for our customers the most suitable 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

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FONTIJNE PRESSES is part of the APTCO Technology and Innovation Group. APTCO is a diverse, international group of companies active in the distribution, manufacturing, service and support of scientific instruments and equipment. APTCO's member companies boast activity in analytical and materials characterization technologies (BENELUX SCIENTIFIC Group) and life sciences, biobanking and diagnostics (SOPACHEM Group). Other divisions focus on calibration services (CALIBRATION LAB) and the manufacture of membrane and filter characterization equipment (POROMETER).





TAFELPERSEN • TABLE PRESSES • PRESSES DE TABLE • TISCHPRESSEN



#### INSTALLED

more than  
1.600 machines  
in the field



#### EXPERIENCE

110 years  
experience building  
hydraulic presses



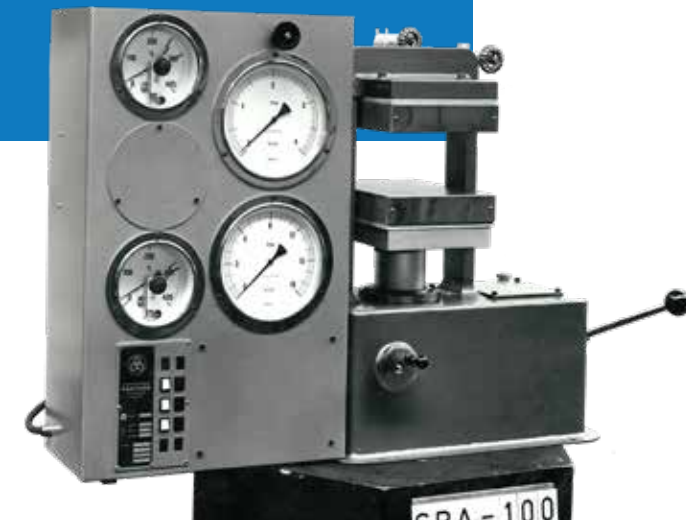
#### LIFE CYCLE

average life cycle  
more than 20 years

## HISTORY

For more than 100 years, Fontijne Presses have been used in the polymer processing, rubber, composites, laminating and wood industry, as well as at universities and research centers. These presses are utilized as sample preparation equipment for:

- Quality control
- Research and Development
- Materials development





## Rubber

The presses are used to examine the quality of rubber by taking a sample of the production batch. The sample is pressed into a die and after vulcanisation the rubber test bar is ready to be used for elongation tests, or to test density, Mooney viscosity, ash content, bromine and chlorine content.



## Polymers

Preparation of samples in order to examine the quality of polymers like PE, PP, PS, ABS etc. Parameters like colour, homogeneity, conductivity, mould temperature, mould pressure and flowing point are very important in the plastics and polymer processing industry. performing VA tests or tests on density, XRF measurements determining the Melt Index

- testing the strength of EVA adhesive layers
- melting PE & PP yarns



## Composites

The Fontijne presses enable you to carry out vital ground-breaking and industry leading research into composite materials. They assist your investigation and development of cost effective manufacturing technology for lightweight composite structures, e.g. for aerospace (unmanned aircraft structures) and automotive industry application (sports car bodies).

## FONTIJNE PRESSES PRODUCTS & SERVICES



In addition to manufacturing and sale of high quality equipment, Fontijne Presses supplies customers with a full line of parts and accessories for their line of hydraulic platen presses. Their customers are assured the highest machine availability with original spare parts. All spare parts are continually developed to ensure optimal machine performance.

Fontijne Presses also offers complete maintenance and calibration services to prevent downtime. They provide a wide variety of solutions to improve or rebuild an aging system as well. The presses remain state-of-the-art by means of upgrade packages or new technologies.



# LabManual

## THB 300



- The LabManual THB 300 is a manually operated press, especially designed for basic pressing operations and moderate use.
- 2 column press frame: extraordinarily high parallelism and easy access to press area
- Extremely accurate temperature distribution
- accurate pressing by a highly controlled pressure build-up
- precise force distribution over the full platen surface thanks to the rigid design
- Fixed upper platen, moveable lower platen
- Compact
- Easy to operate
- High safety level
- Service friendly
- Several options available, e.g. cooling, platen material

LabManual		
press force	kN	300
platen size	mm	320x320
specific pressure	N/cm <sup>2</sup>	293
amperage	A	16
voltage	V	400

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





# LabEcon

## 150/300/600

- The LabEcon series 150/300/600 are especially designed for basic pressing operations.
- 2 column press frame: extraordinarily high parallelism and easy access to press area
- Extremely accurate temperature distribution
- Fixed upper platen, moveable lower platen
- Fast closing and accurate pressing by a highly controlled pressure build-up
- precise force distribution over the full platen surface thanks to the rigid design
- Automatic control of the hydraulic pressure in order to maintain a stable press force
- Compact and saving lab space: small footprint through pillar design
- Easy to operate via touch screen control
- High safety level
- Service friendly
- Several options available, depending on the type:
  - multiple daylight configurations, special platen material, automatic venting cycle,
  - condensor, chiller, control systems...

LabEcon		150	300	600
press force	kN	150	300	600
platen size	mm	320x320	320x320	400x400
specific pressure	N/cm <sup>2</sup>	146	293	375
amperage	A	16	16	32
max. temp.	C	300		
length	mm	790		
width	mm	880		
height	mm	1790		



# LabPro

## 50/200/400/600/1000/1500/Special

- The LabPro series 50/200/400/600/1500 are customised presses built according to customer specific requirements.
- Several options available: multiple daylight configurations, platen material, platen sizes, heating sources, automatic venting cycle, condensor, chiller, control systems, vacuum chamber for preparation of samples in vacuum conditions (30-40 mbar), floating upper platen for lower press range (1-10 kN), higher temperatures up to 500°C, cassette cooling system,...
- 2 column press frame: extraordinarily high parallelism and easy access to press area
- Extremely accurate temperature distribution
- Fixed upper platen, moveable lower platen
- Fast closing and accurate pressing by a highly controlled pressure build-up
- precise force distribution over the full platen surface thanks to the rigid design
- Automatic control of the hydraulic pressure in order to maintain a stable press force
- Easy to operate via touch screen control
- High safety level
- Service friendly



LabPro		50	200	400	600	1000	1500	Lab Special up to 3000
press force	kN	50	200	400	600	1000	1500	3000
stroke standard	mm	200						
stroke max.	mm	1000						
standard platen size	mm	225x225	225x320	320x320	400x400	500x500	500x500	<i>tbd</i>
max. platen size	mm	<i>tbd</i>						
specific pressure (standard heating platen)	N/cm <sup>2</sup>	99	277	390	375	400	600	<i>tbd</i>



## Programmable control

- Temperature & pressure control
- 8,4" touch panel
- Storable recipe builder with commands and events
- Simple Process Pre View
- Read-out of Data Acquisition
- Meets ASTM/DIN/ISO Standards



## Pro-view control

- Temperature & pressure control
- 15" touch panel
- Storable recipe builder with commands and events
- User defined subroutines
- Process Pre View
- Data acquisition of selectable parameters with export to Excel
- Meets ASTM/DIN/ISO Standards

FONTIJNE PRESSES  
SOME OF OUR CUSTOMERS





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