

# CitoPress-10/-20



**The fastest way to mounting and increased productive capacity**



**CitoPress is offering ultra-short mounting times and maximum user-friendliness. Speed is further improved by using the optional dosing system. The unique automatic dosing system enables dosing of a pre-set amount of mounting resin.**

## Main features

- Low mass mounting units for fast heating
- Automatic detection of cylinder dimension
- Automatic dosing system for faster filling of the cylinders and less spilling of resins
- Turn/push-knob and large display for intuitive operation
- On-screen Hot Mounting Application Guide for convenient information and minimum of errors

## Additional features

- Extended temperature range: 80-180°C
- Remote signalling (flashing light when process is ready)
- Selectable Stand-by heat with sleep function
- Software options: Sensitive, Database
- Low build-height for easy visual control
- Triple-threaded, no-jam top closure
- Individually controlled parameters: temperature, force/pressure, heating time, cooling time
- Simple access for easy cleaning
- Top closure elevator for easy positioning
- Powerful heating unit (1000 W)
- Hydraulic system with high accuracy pressure control
- 3 preset cooling levels (Hi/Med/Lo)





## CitoPress increases your capacity

CitoPress is a powerful mounting press, giving you high speed and maximum user-friendliness. The result is faster turnaround and increased productive capacity.

CitoPress is provided with a hydraulic system, where the pressure is controlled with very high accuracy, securing fragile specimens.

Available as CitoPress-20 with dual cylinder, and as CitoPress-10 with a single cylinder.

## Automatic dosing system

Speed is further improved by using the optional dosing system. The unique automatic dosing system enables dosing of a pre-set amount of mounting resin. The advantages are faster filling of the cylinders and less spilling of resins.

### How it works

A dosing unit is linked to a specific resin by a RFID chip, which is recognized by the mounting press. In turn, when using CitoDoser, the last used method is automatically stored and recalled when the relevant Doser is placed on the press.



CitoDoser: Automatic dosing option

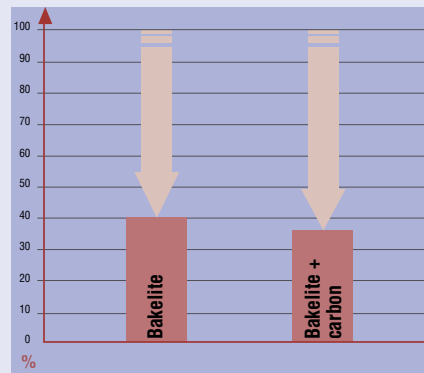
With its flat base, CitoDoser is easily stored on the workdesk when not in use.

To be able to link CitoDoser and the resin inside with more than one method, it is necessary to purchase the Database option.

## Large display and turn/push-knob

CitoPress-10/-20 feature a large, LCD display, which graphically shows parameter settings and mounting progress. Changing parameters is very fast and easy by using the turn/push-knob. Intuitive operation secures faster turnaround, a minimum of errors and the shortest possible set-up time.

CitoPress mounting times for different resins, compared to competing presses (competing presses = 100%)



CitoPress can reduce mounting times to nearly one third, compared to competing presses. (Applies for a 30 mm dia. cylinder. When using a 40 mm dia. cylinder CitoPress can reduce mounting times by half)



Intuitive operation: Push a single key to activate the automatic dosing system

Method parameters (temperature, pressure, heating time, cooling time) can be controlled individually, ensuring full flexibility in mounting.

The user-friendly turn/push-knob gives access to the following standard options:

### Stand-by mode

Used for serial mounting. Maintains a minimum temperature of 20-60°C on the mounting unit, thus cutting down on the heating time. Unlike other presses, stand-by heating can be switched off.

### Operation mode

Three different operation levels are available for selecting levels of user access:

- Production mode, gives access to mounting and selection of method only.
- Development mode, gives access to changing method parameters (plus Production mode access).
- The Configuration mode, gives full access, including access to configuration of set-up parameters.



Fast and easy selection: The large display and the turn/push-knob facilitate a fast selection of selection parameters



## User-friendly software

### On-screen Hot Mounting Application Guide

The built-in Hot Mounting Application Guide takes user-friendliness to a new level. You have the mounting parameters for all Struers resins right on the press. A detailed description of the Struers resins is also available on-line.

Select the Struers resin to be used, and CitoPress automatically checks the cylinder diameter used, adapts the appropriate method, after which it is displayed – ready for use. Everything you need to know about the resins and their usage – right at your fingertips!

### Automatic detection of cylinder dimension

When changing the cylinder dimension, the press automatically detects the new size, and adjusts the method parameters accordingly. In this fashion, errors from an incorrect cylinder setting are eliminated.

### Remote signalling

The mounting unit tower is equipped with a LED-bar, which lights up when a process is started, and flashes when the process is completed. Thus, even from

across the lab, the operator can tell when his mount is ready. The LED-bar may be supplemented by an acoustic alarm, which is available on both models.

### Software options

In addition to the following software options are available:

- Sensitive option:  
Dual phase heating and pressure, for fragile/porous specimens
- Database option:  
Method database for up to 15 user-defined methods

## User-friendly design

### Low build height

Low build height means easy visual inspection of the mounting cylinder. This is relevant e.g. if tall, thin samples are to be mounted, and the operator wants to check if the sample still stands after adding resin. Another typical situation would be if multiple samples are to be included in the same mount.

### Easy Cleaning

The door to the mounting unit tower swings open for easy access to the mounting unit.

### Compact mounting units

CitoPress is equipped with compact, low-mass mounting units significantly reducing heating time. Available cylinder diameters: 25, 30, 40, 50 mm, 1¼" and 1½".

### Simple top closure

All presses come with a top-closure elevator.

Any handling problems of the top closure as seen on other presses are solved by the top closure design.

The CitoPress top closure is with triple-thread. Thus, the entire process of mounting the top closure follows with a minimum of effort.



LED bar for remote signalling



Easy access means quick change of mounting units and easy cleaning



Top closure elevator for easy handling



## HandyDoser

HandyDoser a manual doser which is ideal when using two different resins in one mount. Combining CitoDoser, from where the larger volume is dosed, with HandyDoser, no spoons or funnels are required any more, and dosing the right volume becomes really easy. Since there is less mess, cleaning of the hot mounting press is reduced to a minimum. The dosing unit doses approx. 5 ml at a time, and holds enough resin for approx. 30 mounts, or approx. 550 ml.

## Saves money and resources

The benefit of shorter heating times is reduced energy consumption. Compared to competing presses, less than half the power is required to heat the mounting unit.

### Recirculation cooling unit

CitoPress-10 and -20 are prepared for quick connection to a recirculation unit (Cooling System 3).

### Three preset cooling levels

All CitoPress models come with three preset cooling levels. The main advantage is water saving, meaning that the MEDIUM mode can be used in most cases, and water usage reduced significantly.

Thermoplastic resins require far longer cooling times than thermosetting. With CitoPress, the cooling level can be set to match the resin. E.g., instead of reducing the cooling level by manually reducing the flow at the water tap, the level can be reduced by selecting the LOW mode.

HandyDoser



ClaroFast is a transparent hot mounting resin, offering you transparent mounts with a clear view to all sample details

## Specifications

Cat. no:

### CitoPress-20

05746127

Advanced, electro-hydraulic hot mounting press with two cylinders, which can be used individually. Built-in Hot Mounting Application Guide with automatic conversion of method parameters. Mounting units are ordered separately. Optional dosing unit CitoDoser and Base Unit (05796101+05796102), recirculation Cooling system 7 (05767XXX), Database (05736900) and Sensitive mode (05736901).

### CitoPress-10

05736127

Advanced, electro-hydraulic hot mounting press with one cylinder. Built-in Hot Mounting Application Guide with automatic conversion of method parameters. Mounting units are ordered separately. Optional dosing unit CitoDoser and Base Unit (05796101+05796102), recirculation Cooling system 7 (05767XXX), Database (05736900) and Sensitive mode (05736901).

### Mounting units

Consisting of heating/cooling unit, lower ram and top closure with upper ram.

Cylinder diameter 1½"	05786127
Cylinder diameter 1¼"	05786227
Cylinder diameter 25 mm	05786327
Cylinder diameter 30 mm	05786427
Cylinder diameter 40 mm	05786527
Cylinder diameter 50 mm	05786627

### CitoDoser

05796101

Semi-automatic dosing unit with electronic ID-tag for automatic recognition by hot mounting press. Requires CitoDoser Base (05796102).

### CitoDoser Base Unit

05796102

Base unit for use with CitoDoser (05796101).

### CitoPress Database

05736900

Database option for CitoPress-10 and -20. Store up to 15 mounting methods

### CitoPress Sensitive

05736901

Sensitive option for CitoPress-10 and -20. Dual phase heating and pressure for fragile/porous specimens.

### Cooling system 7

See voltage

With 50 l tank (05766906), small pump (05766xxx), Cooli-1 (05761116) and lid for cooling unit (05766925).

Voltage:	1 x 100 V / 50 Hz	05767116
	1 x 120 V / 60 Hz	05767123
	1 x 220 V / 50 Hz	05767122
	1 x 240 V / 60 Hz	05767124
	1 x 100-120 V / 50/60 Hz CSA	05767216

### Accessories

HandyDoser	05736902
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*CitoPress with automatic dosing system for faster filling of the cylinders and less spilling of resins*



## Technical data

SUBJECT	SPECIFICATION
<b>Mounting unit</b>	
Mounting dia.	25, 30, 40, 50 mm, 1¼", 1½"
No. of mounting units	CitoPress-10: 1 CitoPress-20: 2
<b>Mounting press</b>	
<b>Mounting parameters</b>	
Pressure	50-350 bar / 725-5076 psi in steps of 25 bar / 363 psi
Heating time	1-15 min in steps of 0.5 min
Heating temperature	80-180°C / 176-356°F in steps of 5°C / 41°F
Cooling time	1-15 min in steps of 0.5 min
Cooling rate	High: Full flow Medium: 20% of full flow Low: 3% of full flow
Dosing rate*	20-150%
*) with optional CitoDoser	
<b>Software and electronics</b>	
Controls	Touch pads, turn/push-knob
LCD display with white LED backlight	320x240 dots
<b>Noise levels</b>	
Idle	0 dB (A)
Max.	56 dB(A)
<b>Working environment</b>	
Temperature, operational	5-40°C / 41-104°F
Humidity, non-condensing	0-95% RH
<b>Supply</b>	
Voltage / frequency	100-120V / 50-60Hz, 200-240V / 50-60Hz Auto detection and auto switch over
Power inlet (IEC320-C13)	1-phase (N+L+PE) or 2-phase (L1+L2+PE) <i>The electrical installation must comply with "Installation Category II"</i>
Power, idle	8W
Power, max.	CitoPress-10: 1300W@100-120V, 1300W@200-240V CitoPress-20: 1300W@100-120V, 2300W@200-240V
Current, max.	CitoPress-10: 13A@100-120V, 5.6A@200-240V CitoPress-20: 13A@100-120V, 10A@200-240V
Water pressure	1-10 bar / 14.5-145 psi
Water inlet	¾"
Water outlet	ø13 mm
<b>Dimensions and weight</b>	
Width	CitoPress-10: 480 mm / 19", CitoPress-20: 550 mm / 21½"
Depth	560 mm / 22"
Height	450 mm / 17,7" (excl. CitoDoser) 550 mm / 21½" (incl. CitoDoser)
Weight	CitoPress-10: 34 kg / 75 lbs, CitoPress-20: 48 kg / 106 lbs CitoDoser: 3.1 kg / 7 lbs





Struers A/S  
 Pederstrupvej 84  
 DK-2750 Ballerup, Denmark  
 Phone +45 44 600 800  
 Fax +45 44 600 801  
 struers@struers.dk  
 www.struers.com

#### AUSTRALIA & NEW ZEALAND

**Struers Australia**  
 27 Mayneview Street  
 Milton QLD 4064  
 Australia  
 Phone: +61 7 3512 9600  
 Fax: +61 7 3369 8200  
 info.au@struers.dk

#### BELGIQUE (Wallonie) Struers S.A.S.

370, rue du Marché Rollay  
 sur Marne Cedex  
 Téléphone +33 1 5509 1430  
 Télécopie +33 1 5509 1449  
 struers@struers.fr

#### BELGIUM (Flanders)

**Struers GmbH Nederland**  
 Elektraweg 5  
 3144 CB Maassluis  
 Telefoon: +31 (10) 599 7209  
 Fax: +31 (10) 5997201  
 netherlands@struers.de

#### CANADA

**Struers Ltd.**  
 7275 West Credit Avenue  
 Mississauga, Ontario L5N 5M9  
 Phone +1 905-814-8855  
 Fax +1 905-814-1440  
 info@struers.com

#### CHINA

**Struers Ltd.**  
 No. 1696 Zhang Heng Road  
 Zhang Jiang Hi-Tech Park  
 Shanghai 201203, P.R. China  
 Phone +86 (21) 6035 3900  
 Fax +86 (21) 6035 3999  
 struers@struers.cn

#### CZECH REPUBLIC

**Struers GmbH**  
 Organizační složka  
 Havlíčkova 361  
 CZ-252 63 Roztoky u Prahy  
 Phone +420 233 312 625  
 Fax: +420 233 312 640  
 czechrepublic@struers.de

#### DEUTSCHLAND

**Struers GmbH**  
 Carl-Friedrich-Benz-Straße 5  
 D-47877 Willich  
 Telefon +49 (0) 2154 486-0  
 Fax +49 (0) 2154 486-222  
 verkauf@struers.de

#### FRANCE

**Struers S.A.S.**  
 370, rue du Marché Rollay  
 F-94507 Champigny  
 sur Marne Cedex  
 Téléphone +33 1 5509 1430  
 Télécopie +33 1 5509 1449  
 struers@struers.fr

#### IRELAND

**Struers Ltd.**  
 Unit 11 Evolution@ AMP  
 Whittle Way, Catcliffe  
 Rotherham S60 5BL  
 Tel: +44 0845 604 6664  
 Fax: +44 0845 604 6651  
 info@struers.co.uk

#### ITALY

**Struers Italia**  
 Via Monte Grappa 80/4  
 20020 Arese (MI)  
 Tel. +39-02/38236281  
 Fax +39-02/38236274  
 struers.it@struers.it

#### JAPAN

**Marumoto Struers K.K.**  
 Takara 3rd Building  
 18-6, Higashi Ueno 1-chome  
 Taito-ku, Tokyo 110-0015  
 Phone +81 3 5688 2914  
 Fax +81 3 5688 2927  
 struers@struers.co.jp

#### NETHERLANDS

**Struers GmbH Nederland**  
 Elektraweg 5  
 3144 CB Maassluis  
 Telefoon: +31 (10) 599 7209  
 Fax: +31 (10) 5997201  
 netherlands@struers.de

#### ÖSTERREICH

**Struers GmbH**  
 Zweigniederlassung Österreich  
 Betriebsgebiet Puch Nord 8  
 5412 Puch  
 Telefon: +43 6245 70567  
 Fax: +43 6245 70567-78  
 austria@struers.de

#### POLAND

**Struers Sp. z o.o.**  
 Oddział w Polsce  
 ul. Jasnogórska 44  
 31-358 Kraków  
 Phone +48 12 661 20 60  
 Fax +48 12 626 01 46  
 poland@struers.de

#### ROMANIA

**Struers GmbH**  
 Sucursala Sibiu  
 Str.Scoala de Inot, nr. 18  
 RO-550005 Sibiu  
 Phone +40 269 244 558  
 Fax +40 269 244 559  
 romania@struers.de

#### SCHWEIZ

**Struers GmbH**  
 Zweigniederlassung Schweiz  
 Weissenbrunnstraße 41  
 CH-8903 Birmensdorf  
 Telefon +41 44 777 63 07  
 Fax +41 44 777 63 09  
 switzerland@struers.de

#### SINGAPORE

**Struers Singapore**  
 627A Aljunied Road,  
 #07-08 BizTech Centre  
 Singapore 389842  
 Phone +65 6299 2268  
 Fax +65 6299 2661  
 struers.sg@struers.dk

#### SUOMI

**Struers Suomi**  
 Kalevankatu 43  
 00180 Helsinki  
 Puhelin +358 (0)207 919 430  
 Faksi +358 (0)207 919 431  
 finland@struers.fi

#### SWEDEN

**Struers Sverige**  
 Ekbacksvägen 22  
 168 69 Bromma  
 Telefon +46 (0)8 447 53 90  
 Telefax +46 (0)8 447 53 99  
 info@struers.se

#### UNITED KINGDOM

**Struers Ltd.**  
 Unit 11 Evolution @ AMP  
 Whittle Way, Catcliffe  
 Rotherham S60 5BL  
 Tel: +44 0845 604 6664  
 Fax: +44 0845 604 6651  
 info@struers.co.uk

#### USA

**Struers Inc.**  
 24766 Detroit Road  
 Westlake, OH 44145-1598  
 Phone +1 440 871 0071  
 Fax +1 440 871 8188  
 info@struers.com

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