



# Vacuum casting machines



Rapid Prototyping Systems

# VACUUM CASTING MACHINES

We can always offer the right solution for all applications and technologies in vacuum casting: starting from V 400 size ideal for educational application or small parts, covering most popular size V 1000 and not really ending with V 2000 XXL for extraordinarily big challenging projects as there is no limit in size for us. In between, there are also standard solutions and of course we can comply with your specific requirements regarding size and special features.

Due to our modular system, our chambers can be adapted and acquire additional benefits even later in their life cycle. As a standard application you can produce prototypes and functional parts using silicone moulds easy, quickly and on low cost basis – ideal for R & D projects, product design and manufacturing of small series.

As there is a large choice of different kind of PU casting resin material on the market, any existing plastic material can be simulated perfectly, even flexible and absolutely clear transparent material. For investment casting and jewellery industry it is also possible to make wax parts in our different wax casting systems. Epoxy resins for Rapid Tooling moulds, silicones and other kind of material with high viscosity can also be processed in our machines using difference pressure modules.

Thus, our additional modules and options enable you to offer more flexible capacity, larger choice of material and making of larger parts if required – extension chambers and bigger or multiple casting systems help to make the real big parts.

FOLLOWING SIZES ARE AVAILABLE AS A STANDARD ( HEIGHT X WIDTH X DEPTH MM ):

| NAME       | MOULD SIZE     | INNER DIMENSIONS | MAX. CASTING VOLUME |
|------------|----------------|------------------|---------------------|
| V 400      | 360x400x460    | 700x400x460      | bis zu 1000ml       |
| V 1000     | 500x600x670    | 1000x600x670     | bis zu 3000ml       |
| V 1500     | 700x1000x800   | 1200x1000x800    | bis zu 5000 ml      |
| V 2000     | 850x1500x900   | 1500x1500x900    | bis zu 10000 ml     |
| V 2000 XXL | 1000x2000x1000 | 1700x2000x1000   | bis zu 15000 ml     |

FOLLOWING STANDARD MODULES AND OPTIONS AVAILABLE:

- > Casting systems for PU different sizes: 600 ml/1000 ml/2000 ml/3000 ml/5000 ml
- > Difference pressure modules for silicones, epoxy resins and other high viscosity material
- > Difference pressure fixed and integrated in the chamber itself
- > Underframe, fixed or on wheels which can be fixed
- > Wax cups and modules
- > Extension chambers
- > Electrical lifts for the mould itself or for the casting systems to go down to mould



# V 400 M

High performance and quality vacuum casting machine for mixing, evacuation and casting of 2 component silicones and resins.



- » Casting volume: 600/1000 ml
- » Robust and lately re-designed metal housing, powder coated
- » Bright lighting and illumination of internal space
- » Manual casting by operating lever on the left side

#### OPTIONS:

- » Underframe
- » Wax cup

|                          |                  |                   |                      |               |
|--------------------------|------------------|-------------------|----------------------|---------------|
| Dimensions (HxWxD) in mm | Evacuation time: | 90 sec            | Electric connection: | 230 V / 50 Hz |
| Mould size:              | 360x400x460      | Ventilation time: | 20 sec               |               |
| Inner size:              | 700x400x460      | End pressure:     | 0,5 mbar             |               |
| Outer size:              | 1100x790x530     | Pump performance: | 25 m <sup>3</sup> /h |               |

# V 400 MD

High performance and quality vacuum casting machine for mixing, evacuation and casting of 2 component silicones and resins.



- » Casting volume 600/1000 ml
- » Bright lighting and illumination of internal space
- » Robust and lately re-designed metal housing, powder coated
- » Manual casting by operating lever on the left side
- » Difference pressure integrated in machine

#### OPTIONS:

- » Underframe
- » Wax cup

|                          |                  |                   |                      |               |
|--------------------------|------------------|-------------------|----------------------|---------------|
| Dimensions (HxWxD) in mm | Evacuation time: | 90 sec            | Electric connection: | 230 V / 50 Hz |
| Mould size:              | 360x400x460      | Ventilation time: | 20 sec               |               |
| Inner size:              | 700x400x460      | End pressure:     | 0,5 mbar             |               |
| Outer size:              | 1100x790x530     | Pump performance: | 25 m <sup>3</sup> /h |               |

# V 400 A



High performance and quality vacuum casting machine for mixing, evacuation and casting of 2 component silicones and resins.



- » Casting volume 600/1000 ml
- » Casting system on rails, can be easily taken out of chamber and put in again ( drawer system )
- » Bright lighting and illumination of internal space
- » Robust and lately re-designed metal housing, powder coated
- » PLC control
- » Display and operation via touch panel and recording function
- Process is recorded one time and can be repeated at will

#### OPTIONS:

- » Underframe
- » Wax cup
- » Wax module
- » Electrical lift
- » Difference pressure module
- » Optional 230 V / 50 Hz connection if 400 V not available

|                          |                  |                   |                      |               |
|--------------------------|------------------|-------------------|----------------------|---------------|
| Dimensions (HxWxD) in mm | Evacuation time: | 90 sec            | Electric connection: | 400 V / 50 Hz |
| Mould size:              | 360x400x460      | Ventilation time: | 20 sec               |               |
| Inner size:              | 700x400x460      | End pressure:     | 0,5 mbar             |               |
| Outer size:              | 1100x790x530     | Pump performance: | 25 m <sup>3</sup> /h |               |

# V 400 AD



High performance and quality vacuum casting machine for mixing, evacuation and casting of 2 component silicones and resins.



- » Casting volume: 600/1000 ml
- » Casting system on rails, can be easily taken out of chamber and put in again ( drawer system )
- » Bright lighting and illumination of internal space
- » Robust and lately re-designed metal housing, powder coated
- » PLC control
- » Display and operation via touch panel and recording function
- Process is recorded one time and can be repeated at will

## OPTIONS:

- » Underframe
- » Wax cup
- » Wax module
- » Electrical lift
- » Difference pressure module
- » Optional 230 V / 50 Hz connection if 400 V not available

|                          |                  |                   |                      |               |
|--------------------------|------------------|-------------------|----------------------|---------------|
| Dimensions (HxWxD) in mm | Evacuation time: | 90 sec            | Electric connection: | 400 V / 50 Hz |
| Mould size:              | 360x400x460      | Ventilation time: | 20 sec               |               |
| Inner size:              | 700x400x460      | End pressure:     | 0,5 mbar             |               |
| Outer size:              | 1100x790x530     | Pump performance: | 25 m <sup>3</sup> /h |               |

# V 1000 B

High performance and quality vacuum casting machine for mixing, evacuation and casting of 2 component silicones and resins.



- » Casting volume: 600/1000/2000 ml
- » Casting system on rails, can be easily taken out of chamber and put in again ( drawer system )
- » Bright lighting and illumination of internal space

- » Robust and lately re-designed metal housing, powder coated
- » Operation via operation panel with buttons and switches
- » Whole inner space can be used as vacuum chamber only, e.g. for degassing entire silicone barrel

**OPTIONS:**

- » 3000 ml casting system
- » Underframe
- » Wax cup
- » Wax module
- » Electrical lift
- » Difference pressure
- » Extension chambers

|                          |                  |                   |                      |                       |                 |
|--------------------------|------------------|-------------------|----------------------|-----------------------|-----------------|
| Dimensions (HxWxD) in mm | Evacuation time: | 240 sec           | Electric connection: | 400 V / 50 Hz         |                 |
| Mould size:              | 500x600x670      | Ventilation time: | 20 sec               | Total connected load: | ca. 3 KVA       |
| Inner size:              | 1000x600x670     | End pressure:     | 0,5 mbar             | Maximum pre-fuse:     | 16 A            |
| Outer size:              | 1300x1100x750    | Pump performance: | 40 m <sup>3</sup> /h | Connection:           | 3 Phasen, N, PE |

# V 1000 A

High performance and quality vacuum casting machine for mixing, evacuation and casting of 2 component silicones and resins.



- » Casting volume: 600 ml / 1000 ml / 2000 ml
- » Casting system on rails, can be easily taken out of chamber and put in again ( drawer system )
- » Bright lighting and illumination of internal space
- » Robust and lately re-designed metal housing, powder coated
- » PLC control
- » Display and operation via touch panel and recording function  
→ Process is recorded one time and can be repeated at will
- » Whole inner space can be used as vacuum chamber only, e.g. for degassing entire silicone barrel

#### OPTIONS:

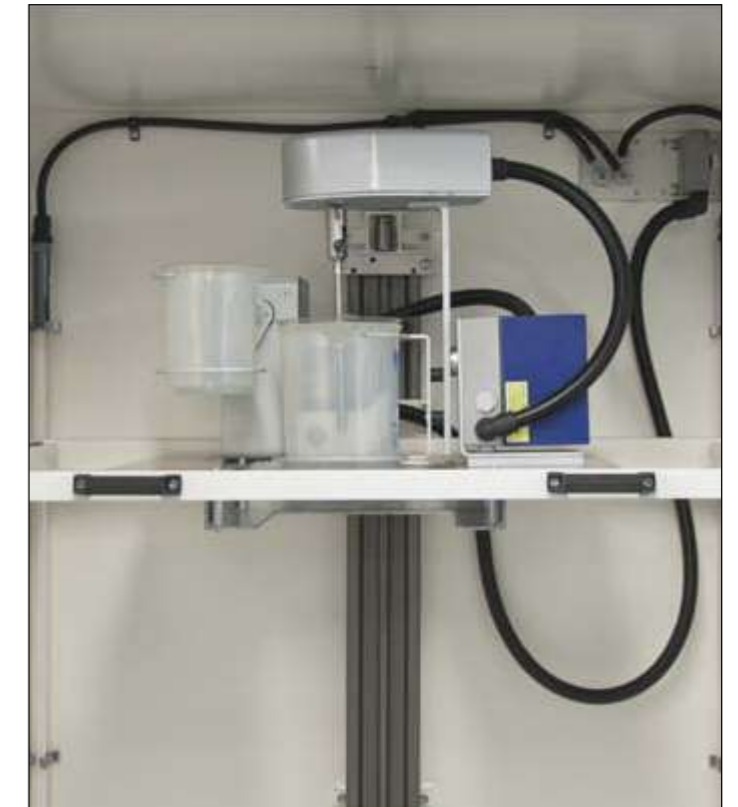
- » 3000 ml casting system
- » Underframe
- » Wax cup
- » Wax module
- » Electrical lift
- » Difference pressure
- » Extension chambers

|                          |                  |                   |                      |                       |                 |
|--------------------------|------------------|-------------------|----------------------|-----------------------|-----------------|
| Dimensions (HxWxD) in mm | Evacuation time: | 240 sec           | Electric connection: | 400 V / 50 Hz         |                 |
| Mould size:              | 500x600x670      | Ventilation time: | 20 sec               | Total connected load: | ca. 3 KVA       |
| Inner size:              | 1000x600x670     | End pressure:     | 0,5 mbar             | Maximum pre-fuse:     | 16 A            |
| Outer size:              | 1300x1100x750    | Pump performance: | 40 m <sup>3</sup> /h | Connection:           | 3 Phasen, N, PE |



# V 1500 A

High performance and quality vacuum casting machine for mixing, evacuation and casting of 2 component silicones and resins.



- » Casting volume: 1000/2000/5000 ml
- » Integrated lift for casting system, no lift for mould system required.
- » Bright lighting and illumination of internal space
- » Robust and lately re-designed metal housing, powder coated
- » PLC control
- » Display and operation via touch panel and recording function  
→ Process is recorded one time and can be repeated at will
- » Whole inner space can be used as vacuum chamber only, e.g. for degassing entire silicone barrel

#### OPTIONS:

- » Underframe
- » Wax cup
- » Wax module
- » Difference pressure
- » Difference pressure module
- » Extension chambers
- » Rotating plate

|                           |                   |          |                       |                 |
|---------------------------|-------------------|----------|-----------------------|-----------------|
| Dimensions (HxWxD) in mm  | Evacuation time:  | 240 sec  | Electric connection:  | 400 V / 50 Hz   |
| Mould size: 700x1000x800  | Ventilation time: | 20 sec   | Total connected load: | ca. 3 KVA       |
| Inner size: 1200x1000x800 | End pressure:     | 0,5 mbar | Maximum pre-fuse:     | 16 A            |
| Outer size: 1500x1500x900 | Pump performance: | 100 m³/h | Connection:           | 3 Phasen, N. PE |

# V 2000 A



High performance and quality vacuum casting machine for mixing, evacuation and casting of 2 component silicones and resins.



- » Casting volume: 600 ml / 1000 ml / 2000/ 5000 ml
- » Maximum casting volume 10000 ml
- » 2 castings systems can be fixed and work together or controlled separately
- » Integrated lift for casting systems, no lift for mould required.
- » Bright lighting and illumination of internal space
- » Robust and lately re-designed metal housing, powder coated
- » PLC control
- » Display and operation via touch panel and recording function  
→Process is recorded one time and can be repeated at will

#### OPTIONS:

- » Wax cup
- » Wax module
- » Difference pressure
- » Difference pressure module
- » Extension chambers
- » Rotating plate

|                          |                  |                   |                       |               |
|--------------------------|------------------|-------------------|-----------------------|---------------|
| Dimensions (HxWxD) in mm | Evacuation time: | 240 sec           | Electric connection:  | 400 V / 50 Hz |
| Mould size:              | 850x1500x900     | Ventilation time: | 30 sec                |               |
| Inner size:              | 1500x1500x900    | End pressure:     | 0,5 mbar              |               |
| Outer size:              | 2500x1900x1600   | Pump performance: | 250 m <sup>3</sup> /h |               |

# V 2000 XXL A TR



High performance and quality vacuum casting machine for mixing, evacuation and casting of 2 component silicones and resins.



- » Casting volumes: 600 ml / 1000 ml / 2000/ 5000 ml
- » Maximum casting volume 15000 ml
- » 3 castings systems can be fixed and work together or controlled separately
- » Integrated lift for casting systems, no lift for mould required.
- » Bright lighting and illumination of internal space
- » Robust and lately re-designed metal housing, powder coated
- » PLC control
- » Display and operation via touch panel and recording function  
→Process is recorded one time and can be repeated at will

**OPTIONS:**

- » Wax cup
- » Wax module
- » Difference pressure
- » Difference pressure module
- » Extension chambers
- » Rotating plate

|                          |                  |                   |                       |               |
|--------------------------|------------------|-------------------|-----------------------|---------------|
| Dimensions (HxWxD) in mm | Evacuation time: | 240 sec           | Electric connection:  | 400 V / 50 Hz |
| Mould size:              | 1000x2000x1000   | Ventilation time: | 30 sec                |               |
| Inner size:              | 1700x2000x1000   | End pressure:     | 0,5 mbar              |               |
| Outer size:              | 2200x2400x1800   | Pump performance: | 305 m <sup>3</sup> /h |               |



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