

PRECISION AND STABILITY FOR CASTING PROCESSES

Let's Talk About
**Smart
Silicone
Solutions**



NEW

► **TOP 7000 Cast**

CASTING TECHNOLOGY

CONSTANT VOLUME FLOW STABLE MIXING RATIO REPRODUCIBLE RESULTS



The TOP 7000 Cast dosing system for casting, coating, and manual molding applications is based on the TOP 7000 Pro and was developed specifically for casting applications. The result: maximum process stability, high material utilization, and reproducible results—perfectly tailored to the material viscosity.

The TOP 7000 Cast ensures consistent mixing ratios and stable volume flow – even with highly fluctuating viscosity and fillers. Ramp profiles, freely definable shutdown criteria, and QR code recipe management enable quick adaptation to changing processes. Fully automatic drum change, intuitive software, and self-learning control reduce operating costs and increase process reliability, even with highly filled or abrasive materials.

PERFORMANCE & PROCESS STABILITY

- ▶ Delivery more than 5 liters/minute / 1,32 gallon/minute (depending on viscosity)
- ▶ Max. pump pressure 280 bar – enables stable and highly dynamic delivery even with highly viscous and abrasive materials
- ▶ Precision: 2.0 µl/Imp (512.000 Imp/L)
- ▶ Stable, continuous conveying
- ▶ Exact mixing ratio – high mold filling quality, reproducible component quality

MATERIAL & ENERGY EFFICIENCY

- ▶ Material utilization up to 99.8% – real cost advantage, hardly any residual material
- ▶ Low power consumption: approx. 50 Wh in standby mode, 150 to 400 Wh during operation
- ▶ No idle losses, no pressure loss

OPERATION & AUTOMATION

- ▶ Fully automatic drum change from the edge of the drum
- ▶ 200-liter/55 gallons drum pair change < 5 minutes – fast restart
- ▶ Fully automatic de-airing – ensures consistent process conditions with every drum change
- ▶ Intuitive user interface & over 20 software operating languages as standard

INTELLIGENT PROCESS CONTROL

- ▶ Volume flow control via up to 5 ramp profiles with shutdown criteria
- ▶ Integrated shutdown criteria (time, volume, filling pressure, external start/stop signal)
- ▶ Self-learning control, automatically adapts to material viscosity

MATERIAL FLEXIBILITY

- ▶ Pump unit S: 0.001 – 2000 Pas / Pump unit M: 0.001 – 3000 Pas
- ▶ Optional wear-resistant design – suitable for highly filled, abrasive materials

ADDITIVE & RECIPE MANAGEMENT

- ▶ Control of up to 6 additives, high resolution (10.240.000 pulses/L)
- ▶ Recipe management via QR code

SAFETY & COMPLIANCE

- ▶ Complies with EN ISO 13849-1 – the highest safety standard on the market
- ▶ CE, RoHS and UL compliant

AREAS OF APPLICATION

DIRECT FILLING / CASTING

Insulators (HVI casting)

Typical application in high and medium voltage ranges, high demands on filling quality and process consistency.

MANUAL MOLDING

With or without a dispensing gun – the system supports both variants.

- Medical Manifolds
- Liners for prosthetics
- Medical Cushions

Medical products with high requirements for precision, material homogeneity, and reproducible filling processes.

COATING PROCESSES

- Fabric coating
- Paper Release

Uniform, controlled material application required. Advantage through continuous, stable volume flow.

CABLE COATING

Sheathing or protective layers; requires controlled and stable material flow as well as high viscosity tolerance.



**TOP
7000 Cast
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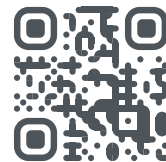
TECHNICAL INFORMATION TOP 7000 Cast

Dimensions L/W/H (mm)	1150 x 790 x 1965 (2445)
Drum sizes	200 / 20 liters 55 / 5 gallons
Drum change	3 sides (180°)
Useable materials [Pas]	
Pump unit S	0.001 to 2000
Pump unit M	0.001 to 3000 (Optional)
Delivery rate	
per component @ 2,7 Pas (S)	> 2500 cm ³ /min
per component @ 2,7 Pas (M)	> 2350 cm ³ /min (Optional)
Max. delivery pressure (S)	280 bar / 4061 psi
Max. delivery pressure (M)	280 bar / 4061 psi (Optional)
Power supply	100 - 264 VAC, 4 A
Air supply	6 bar – 1000 NL / min (1/2")
Additive lines	max. 6
Static mixer	1 Standard
Volume counter	Yes
Certifications	CE, UL, RoHS
Eco-Mix	Standard
Simultaneous drum emptying	
Process documentations USB	Standard
Wheels	Standard
24 month warranty	Standard

OPTIONS

Fix-Mix	Optional
Freely selectable mixing ratio	
QR code recipe management	Optional
Abrasive kit	Optional
Drum lifter	Optional
Customized paint work	Optional
SMARTsupport Hub	Optional
Premium Connectivity	Optional
Tandem	Optional
2 dosing systems in alternating operation	

DOSING TECHNOLOGY.
MOLDING TECHNOLOGY.
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we have been developing customized, innovative solutions for our customers. As a global high-end full system and service provider for the processing and dosing of liquid silicone (LSR), we at ELMET are among the leading specialists in this field.



SMART SILICONE SOLUTIONS

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