



DYEING SYSTEMS

SUT DYEING SYSTEMS

DYEING OF 3D-PARTS

FAST | CLEAN | SAVE | ECONOMICAL

SUT-systems with ultrasound, turbulent flow and heating are also ideally suited for dyeing **Polyamide, Polyurethane, Acrylic, Resin, Carbon Fiber, Polyester and ABS-parts**. The interval steered combination of ultrasound and turbulent flow supports the adhesion of the ink pigments to the surface structures of the printed parts.



The dyeing is based on especially developed dyeing liquids (we recommend liquids, developed and manufactured by a french company named TCN

<https://www.techniques-chimiques-nouvelles.com/en/additive-manufacturing/>

used at a temperature of approx. 60°- 85°C. The dyeing takes approx. 10 minutes.

If you are already using a dyeing system, the SUT systems with ultrasound and flow interval can be used for pre-cleaning printed parts from powder residues before dyeing. This leads to a much more consistent and uniform dyeing of the parts.



Our dyeing systems are available as **Solo systems** (one dyeing basin), **Duo systems** (one dyeing and one flushing basin), **Duo+ systems** (one dyeing basin, one flushing basin plus dripping area) and **Trio-systems** (one dyeing, one flushing and one drying basin).



SOLO-SYSTEMS (1 BASIN)

	SUT20 USFLH	SUT70 USFLH	SUT90 USFLH	SUT140 USFLH
Technology	Ultrasound + Flow + Heating	Ultrasound + Flow + Heating	Ultrasound + Flow + Heating	Ultrasound + Flow + Heating
Recommended dyeing solution	Special dyeing liquids (we recommend: TCN www.techniques-chimiques-nouvelles.com)			
Dyeing Basin	Welded, heat insulated Cleaning Basin consisting of 2mm stainless steel with included pump. (adjustable from 30°C - 85°C).			
Basin Lid	Standard with all systems – with hinge			
Handles / Rolls	Side Handles	Rolls Standard	Rolls Standard	Rolls Standard
Dimensions W x D x H	approx. 420 x 370 x 620 mm	approx. 580 x 605 x 800 mm	approx. 640 x 590 x 850 mm	approx. 880 x 750 x 850 mm
Basin W x D x H	approx. 320 x 270 x 300 mm	approx. 430 x 430 x 430 mm	approx. 500 x 450 x 500 mm	approx. 650 x 550 x 450 mm
Basket W x D x H	approx. 300 x 250 x 250 mm	approx. 410 x 410 x 370 mm	approx. 480 x 430 x 450 mm	approx. 630 x 530 x 370 mm
Cubic Capacity	20 Liter	70 Liter	90 Liter	140 Liter
Flushing Openings	2 x 14 (120 + 220mm)	2 x 14 (130 mm + 280 mm)	2 x 21 (200 mm + 300 mm)	2 x 24 (130 mm + 280 mm)
Ultrasonic Devices	6 pieces	12 pieces	12 pieces	18 pieces
Niveau-Control	Optional	Standard	Standard	Standard
Drain Connection	1"	1"	1"	1"
Heating	1 x 900 W (30°C - 85°C)	2 x 900 W (30°C - 85°C)	2 x 900 W (30°C - 85°C)	4 x 900 W (30°C - 85°C)
Electrical Supply	230 V 50/60 Hz approx. 1,4 kW	230 V 50/60 Hz approx. 2,5 kW	230 V 50/60 Hz approx. 2,5 kW	380 V 50/60 Hz approx. 4,5 kW
Weight	approx. 37 kg	approx. 83,5 kg	approx. 104 kg	approx. 125 kg
Optional Supplies	Clamp Grid for hold down parts, vertical basket zoning and positioning of parts in front of (or apart from) flushing openings Caddy (rollable stand with collecting tray and additional drip pan area for baskets)			
Optional Caddy	approx. 86 x 38 x 27 cm 14 kg	approx. 120 x 65 x 27 cm 24 kg	approx. 140 x 70 x 20 cm 30 kg	approx. 178 x 80 x 20 cm 36 kg

SUT offers different system designs. The systems are available as **SOLO VERSION** (one chamber), as **DUO VERSION** (cleaning & rinsing), as **DUO+ VERSION** (cleaning, rinsing, dripping area) and as **TRIO-VERSION** (Cleaning | Rinsing | Drying) or (Dyeing 1 | Rinsing | Dyeing 2)

Further Systems for support structure removal:

POLY-CLEAN 3D for support removal of 3D-Prints based on Polyjet material

FDM-CLEAN 3D for support removal of 3D-Prints based on FDM material

SLA-CLEAN 3D for cleaning of Stereolithographic 3D prints (Removal of remaining resin material)

ABOUT THE MANUFACTURER

Schmitt Ultraschalltechnik GmbH serves several industry markets with special solutions for ultrasonic cleaning of miscellaneous materials and products. Besides the industrial cleaning solutions Schmitt also offers solutions for the leisure and sports markets (specialised on cleaning plastic products – see web site for further information).

CUSTOMISED MANUFACTURING

We offer to manufacture our systems to your specific needs. Tell us the required size and performance and we will send you a corresponding quotation. We can also help you to dimension the required system.

