

SuperSWASH Single/Twingo

DIRECT SPRAY AGAINST SURFACE TECHNOLOGY



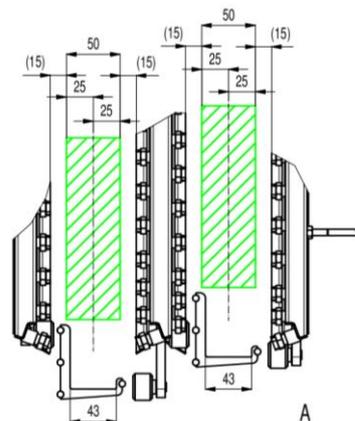
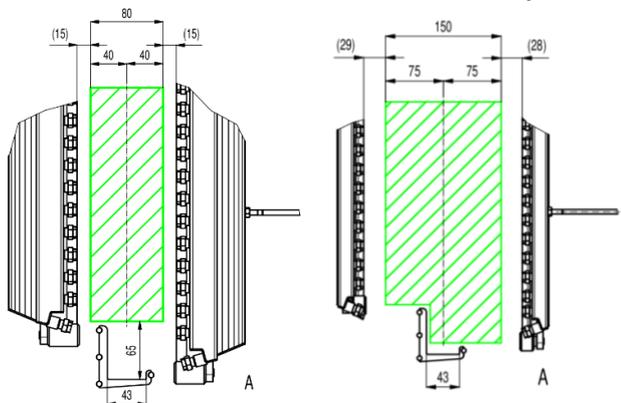
Single configuration

Usable space between the nozzles is 80 mm
(40 mm from axis to one and to second side)

Usable space between the nozzles is 150 mm
(75 mm from axis to one and to second side)

Twingo (double) configuration

Usable space between the nozzles is 50 mm
(25 mm from axis to one and to second side)



Machine types

| |
|---|
| SuperSWASH II Wash (Heat to 60 °C) + Rinse (Tap water or DI water) + Drying |
| SuperSWASH III Wash (Heat to 60 °C) + 1 st Rinse (Tap water or DI water) + 2 nd Rinse (DI water) + Drying |
| SuperSWASH IV Wash (Heat to 60 °C) + 1 st Rinse (DI water, Cascade) + 2 nd Rinse (DI water, Cascade) + 3 rd Rinse (DI water external) + Drying |

Machine process phases

| SuperSWASH | II | III | IV |
|---------------------------------|-----------------|-----------------|--|
| Total number of cleaning phases | 3 | 4 | 5 |
| Washing | Cleaning medium | Cleaning medium | Cleaning medium |
| Rinsing | Tap or DI water | Tap or DI water | DI water |
| | | DI water | DI water DI water with suction in or External DI water |
| Drying | Hot air | Hot air | Hot air |

Process data

SuperSWASH (single)

| | |
|---|-----------------------|
| Max. usable space: WxLxH (W-left/right, L-front/rear, H-height) | 835 x 80/150 x 816 mm |
| Typical consumption of cleaning agent without load (per one cycle) | 0.1 liter |
| Stencils capacity / dimension | 1 pc / 32" |
| Stencils typical total cycle time | 7 - 12 min |
| Stencil typical quantity per hour | 5- 8 pcs |
| Stencils typical consumption / cycle (cleaning agent) | 0.15 liter |
| PCB defluxing and Misprints - max usable area at the disposal | 0.6 m ² |
| Max load in 3U-160 eurocards (100x160mm) per one cycle | 28 pcs |
| PCBA + Misprints 3U-160 eurocards (100x160mm) typical total cycle time | 30 - 45 min |
| PCBA + Misprints 3U-160 eurocards (100x160mm) typical quantity per hour | 38 - 56 pcs |
| PCBA + Misprints typical consumption / cycle (depends on PCB shape and pollution) | 0.2 - 0.3 liter |

Typical consumption and typical time are based on values from the field, however cannot be guaranteed because of other factor influence

SuperSWASH Twingo (double)

| | |
|---|------------------------|
| Max. usable space: WxLxH (W-left/right, L-front/rear, H-height) | 835 x 50 x 740 mm (2x) |
| Typical consumption of cleaning agent w/o load (per one cycle) | 0.1 liter |
| Stencils capacity/ dimension | 2 pc / 29" |
| Stencils typical total cycle time | 10 - 15 min |
| Stencil typical quantity per hour | 8 - 12 pcs |
| Stencils typical consumption / cycle (cleaning agent) | 0.2 liter |
| PCB defluxing and Misprints - max usable area at the disposal | 2x 0.5 m ² |
| Max load in 3U-160 eurocards (100 x 160 mm) per one cycle | 2x 24 pcs |
| PCBA + Misprints 3U-160 eurocards (100 x 160 mm) typical total cycle time | 30 - 45 min |
| PCBA + Misprints 3U-160 eurocards (100 x 160 mm) typical quantity per hour | 64 - 96 pcs |
| PCBA + Misprints typical consumption / cycle (depends on PCB shape and pollution) | 0.25 - 0.35 liter |

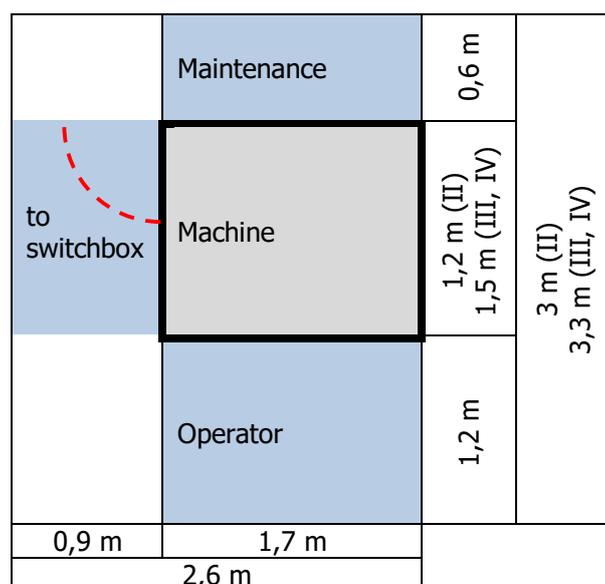
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Technological Data

| SuperSWASH | II | III | IV | |
|---|---------------------------|---------|---------|-------|
| Weight (without liquid) | 520 | 590 | 630 | kg |
| Power input (according to the configuration) | 15-20 | 16-23 | 16-23 | kVA |
| Washing Pressure on the nozzles max/min | 2,9/2,4 | 2,9/2,4 | 2,9/2,4 | bar |
| Open Rinse (mech. filtration)- pressure on the nozzles | 2,9/2,4 | 2,9/2,4 | - | bar |
| Closed Rinse (mech.+DI water filters) - pressure on the nozzles | 2,8/2,3 | 2,8/2,3 | 2,8/2,3 | bar |
| Machine noise level | L _A (eqv) < 70 | | | dB |
| Washing decanter volume max/min | 61/40 | 57/38 | 57/38 | liter |
| 1 st rinsing decanter volume max/min | 61/40 | 42/28 | 33/28 | liter |
| 2 nd rinsing decanter volume max/min | - | 57/38 | 59/38 | liter |
| 3 rd external rinsing reservoir volume max/min | - | - | 72/13 | liter |
| Cleaning medium temperature (option) | Up to 60 | | | °C |
| Rinsing water temperature (option) | Up to 40 | | | °C |
| Drying temperature | Up to 110 | | | °C |
| Number of program registers (settings) | 99 | | | |
| Working area (left - right limit) | 0-850 | | | mm |
| Machine dimension W x L x H | 1700×1500×1735 | | | mm |

Necessary free space

Super SWASH top view:



From the front side minimal 1,2 m space for machine operation (and for withdrawal of emergency pan with decanters)

From the right side minimal 0,6 m for discharge of working liquids

From the left side minimal 0,9 m accessing area into switchboard (conformable to directive IEC 60364-1:2005) and accessing area to manual discharge ball valve

From the rear side minimal 0,6 m space for machine maintenance (filter pads replacement etc.)

Ceiling height minimal 2,5 m space for door opening

Note:

The height of machine with exhaust fan is about +200 mm = 2000 mm

The height of machine with signal tower is about +300 mm = 2100 mm

The length of machine with draining pump is about +200 mm = 1700 (1500) mm

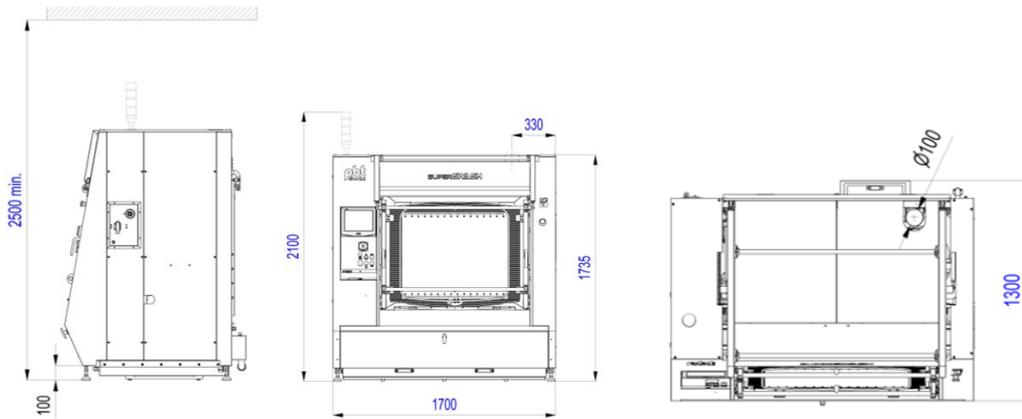
Connection

| | |
|-----------------|--|
| Electric mains: | Voltage: 3x 400/230 V, 50 Hz Protection: 3x B 32 A Connection: 3, N + PE (five-wire plug 32 A) |
| Pressure air: | Pressure: 0,6-0,8 MPa Class of air quality: 3.4.3. (according to ISO 8573-1) Connection: hose SMC ø 8 mm |
| Water inlet: | Capacity: max. 30 l/min Connection: hose 1" |

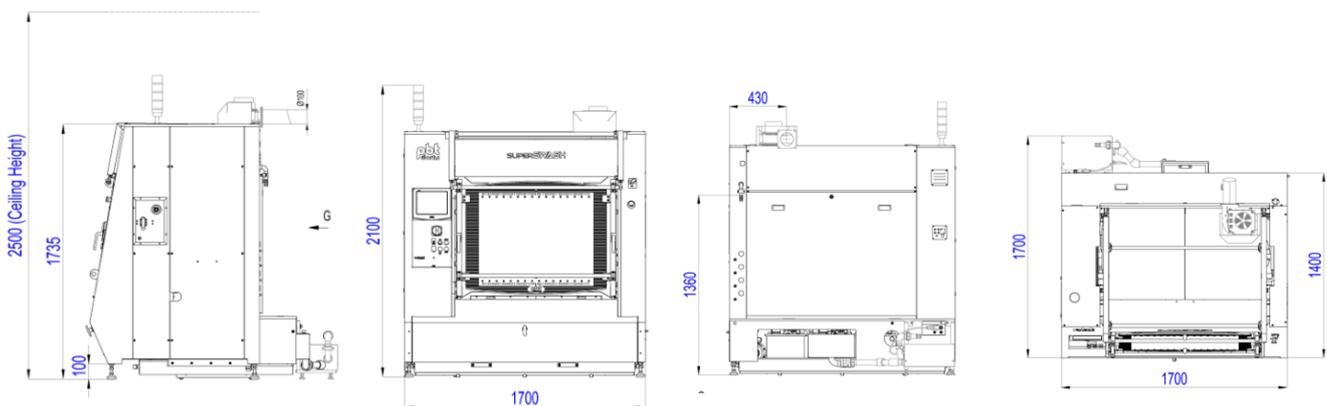
| | |
|---|--|
| Waste water outlet (from 1 st rinse circuit) | Thread G 5/4" <i>Note: Drain output height: 90 mm, pipe slope 1:100, max. pipe length 2 m.</i> |
| Air exhaust: | Capacity: min. 400-450 m ³ /h under pressure 1000-1500 Pa Connection: hose ϕ 150 mm |

Dimension

SuperSWASH II



SuperSWASH III



SuperSWASH IV

