SUMMA

INDUSTRIAL DEGREASIG AND CLEANING SYSTEMS

PURITY AND ECOLOGY IS OUR WORK

Carousel equipment's

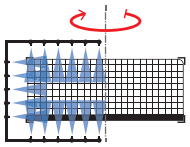
Application:

Hardening shop, paint shop, maintenance, machining shop, ...

Interoperative washing, before surface treatment, after machining, before and after hardening.

- 7 standard workspace sizes
  Φ 500 / 800 / 1000 / 1200 / 1400 / 1600 / 1800
- Compact system using pressure spraying with **forced rotation around the vertical axis**
- 1 bath up to 3 baths
  Interoperative washing, till washing to a define purity
- Optional technology
  Degreasing + rinsing 1 + rinsing 2 + drying

- **Working pressure up to 6 bar**
- **Working bath temperature up to 70 °C**
- **Powered from integrated tanks system**
- Integrated full flow filtration 5 - 200 µm
- Weight of washed goods up to 600 kg



— CI5 — DC3 — M — MCL — MCD — KOMBI —

Application:

Stamping shop, machining shop, tool shop, hardening shop, ...

Washing after forming, after cutting, before final assembly, before and after hardening.

Drum equipment's

— 6 standard workspace sizes:

WIR 6H/6C	**Φ630 x 660 mm**
WIR 4H	**□471 x 300 – 651mm**
WIR 900	**□651 x 300 – 942mm**
WIR 1000	**□660 x 500 – 960mm**
WIR G-BOX	**□750 x 750 – 1180mm**

— Compact system using pressure spraying with **forced rotation around the horizontal axis**

— Optional technology
Degreasing + rinsing 1 + rinsing 2 + drying

— **Working pressure up to 6 bar**

— **Working bath temperature up to 70 °C**

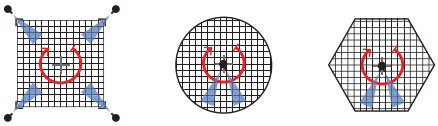
— 1 bath up to 3 baths
Interoperative washing, till washing to a define purity

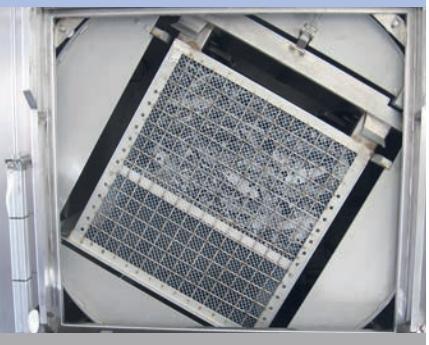
— **Powered from integrated tanks system**

— Integrated full flow filtration 5 - 200µm

— Weight of washed goods 50kg / WIR G-BOX up to 1.000kg

— WIR 4H — WIR 6H/6C — WIR 900 — — WIR 1000 — WIR G-BOX —





SUMMA

Chamber devices for LARGE and MASSIVE parts

Application:

Machining shop, paint shop, Hardening shop, maintenance, ...

Washing before final assembly, interoperative washing, before and after hardening, before painting, ...

— 2 standard workspace sizes:

WIK **1.500 x 2.500 x height 1.500**
WIP **900 x 2.000 x height 750**

— Compact system using pressure spraying with
WIK **forced oscillation along the spraying system**
WIP spraying system moving around the parts

— 1 bath up to 3 baths
Interoperative washing, till washing to a define purity

— Optional technology
Degreasing + rinsing 1 + rinsing 2 + drying

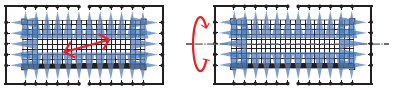
— **Working pressure up to 6 bar**

— **Working bath temperature up to 70°C**

— **Powered from integrated tanks system**

— Integrated full flow filtration 5 - 200µm

— Weight of washed goods up to 1.500kg



— WIK — WIP —

Application:

Paint shop, press shop, tool shop, maintenance, machining shop, ...

Washing before final assembly, before surface treatment, before and after hardening, after forming, before painting.

Chamber – submersible equipment's

— 3 standard workspace sizes:

Atoll	**660 x 480 x height 300**
Atoll K2	**2 baskets 660 x 480 x height 300**
Atoll mini	**480 x 330 x height 300**

— Compact system using pressure spraying / flooding / injection flow optional ultrasonic support possible **with rotating / swinging goods around horizontal axis**

— **1 bath up to 4 baths**
For demanding industrial cleaning

— **Optional technology**
Degreasing + rinsing 1 + rinsing 2 + fogging + drying + vacuum drying

— **Integrated full flow filtration 5 - 200µm before entering the chamber / before entering the tank**

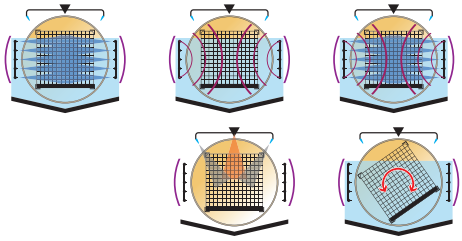
— **Working bath temperature up to 70°C**

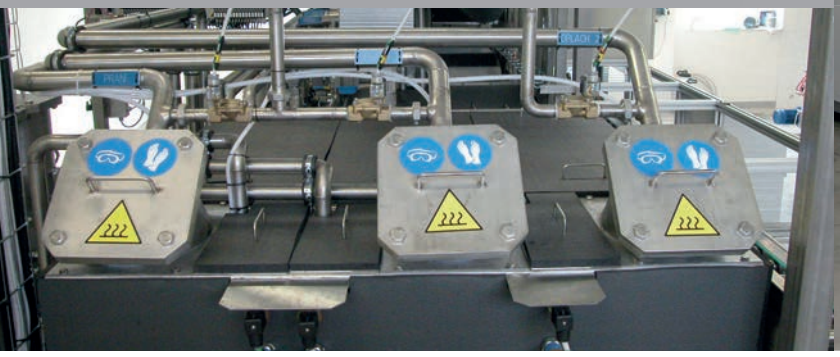
— **Powered from integrated tanks system**

— Working pressure up to 8 bar

— Weight of washed goods 50kg

— ATOLL — ATOLL K2 — — ATOLL mini —





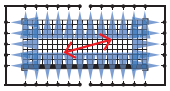
Continuous equipment´s

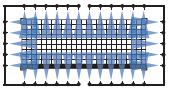
Application:

Machining shop, press shop, paint shop, maintenance, ….

Washing before final assembly, before welding, after forming, after cutting, before painting.

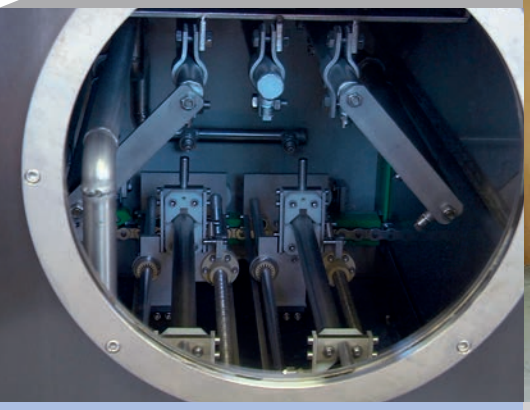
- Compact system using target pressure spraying
- **1 bath up to 4 baths**
  For demanding industrial cleaning
- **Optional technology**
  Degreasing 1 (blow) + degreasing 2 (blow) + rinsing 1 (blow) + rinsing 2 + drying
- **Integrated full flow filtration 5 - 200µm**
- **Working bath temperature up to 70°C**
- **Drip zones with pressure blow**
- Hot air drying and vacuum drying
  Perfect drying of complex parts
- Working pressure up to 6 bar
- Integrated through flow oil separator





— TUNEL —

Continuous KLT box washers



SUMMA

Oil separators

Application:

Galvanic line, machining shop, cutting emulsion tanks, press shop, paint shop, maintenance, ...

- The device is used for separating oil from the surface of degreasing baths, and thus
- Increases the life of degreasing baths
- Improves working environment hygiene
- Reduces operating costs

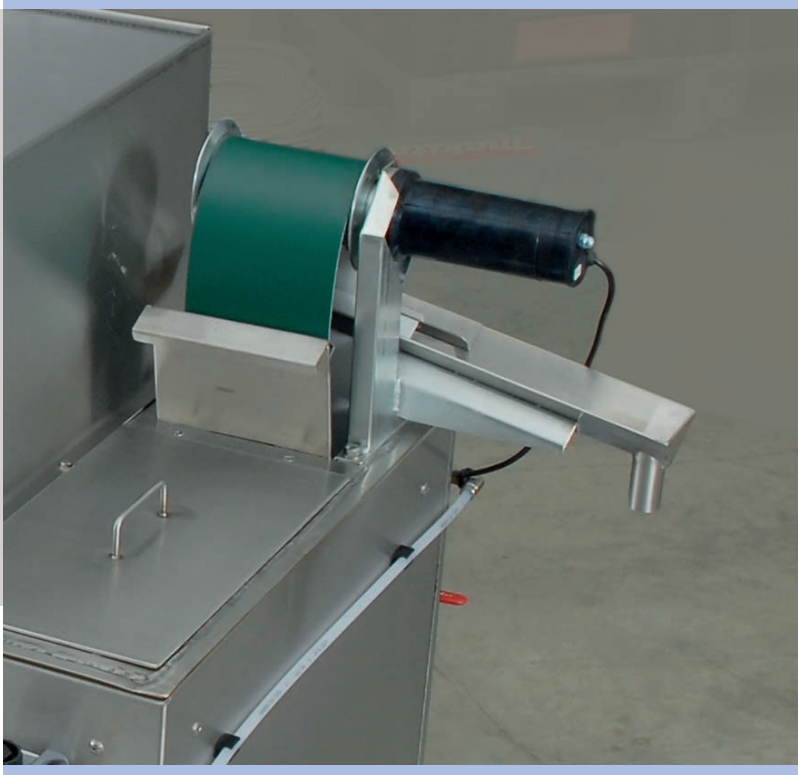
PAL - Belt oil separator

The separator strip is stretched between two pulleys. The lower pulley is freely suspended on the belt, the belt length is optional and the belt speed is adjustable. The drive unit can withstand continuous operation.
By selecting the length of the belt, the oil can be collected by one drive unit from multiple tanks of different depths.

DIK - Disk oil separator

Separation of oil by rotary disk. This device is clamped to the edge of the recovery tank. Disc speed is adjustable. The drive unit can withstand continuous operation.

Separator performance:	up to 40 l/h
Transport height:	up to 5m
Max. bath temperature:	80°C



Separator performance:	up to 5 l/h
Max. bath temperature:	80°C

PSO - Trough flow oil separator

The separator pump takes the oily (dirty) bath from the degreasing device and, by passing through the lamellar batteries, separates the oil that floats to the surface due to gravity and the coalescing principle (ie, connecting small oil drops).

Behind batteries that accelerate oil and grease release from the bath, the grease is retained by the overflow edge and collected by a collecting tray, belt separator, or a disk separator.

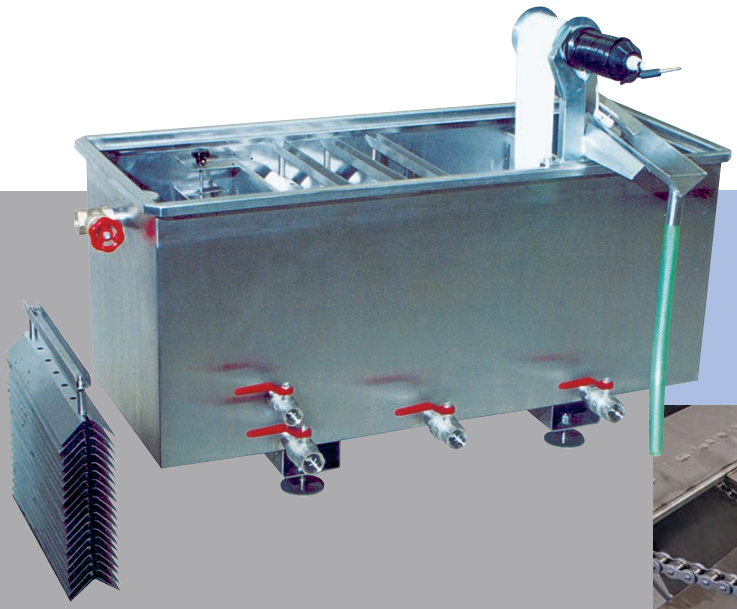
Oil and grease separation occurs during degreasing process, while maintaining the bath temperature.

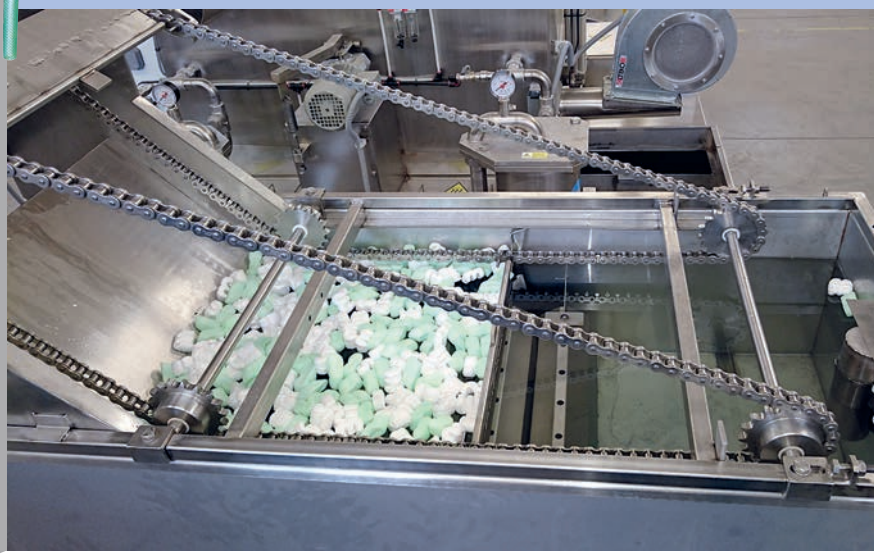
PSO SS1000 - Trough flow grease separator wiping

The separator pump takes the oily (dirty) bath from the degreasing device and, by passing through the lamellar batteries, separates the oil that floats to the surface due to gravity and the coalescing principle (ie, connecting small oil drops).

Behind batteries that accelerate oil and grease release from the bath, the grease is retained by the overflow edge and by wiping blades take out into the collecting container.

Oil and grease separation occurs during degreasing process, while maintaining the bath temperature.





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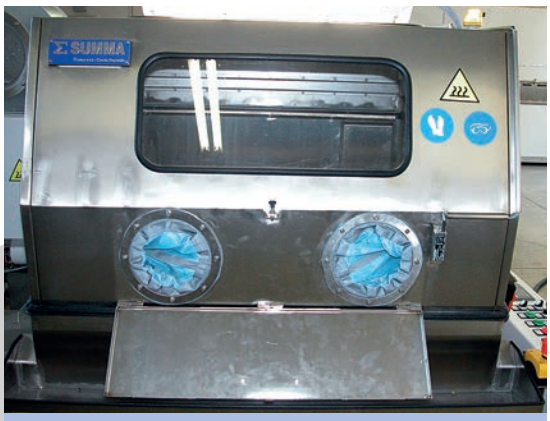
Ultrasonic baths

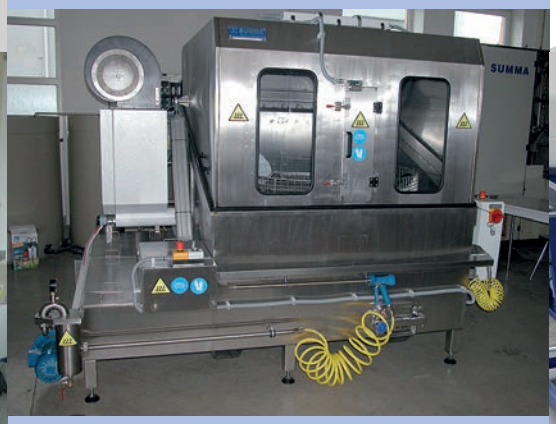
- Ultrasonic power approx. 10 W / l
- 1 bath up to 2 baths
  Interoperative washing, till washing to a define purity
- Optional technology
  Degreasing + rinsing 1 + drying
- Hand-blowing products

Specific devices - applications at the customer

Degreasing bearings



Combination - manual and automatic washing



Washing heads for aluminum die casting

Washing tables

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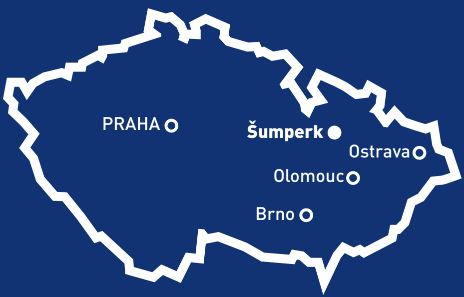

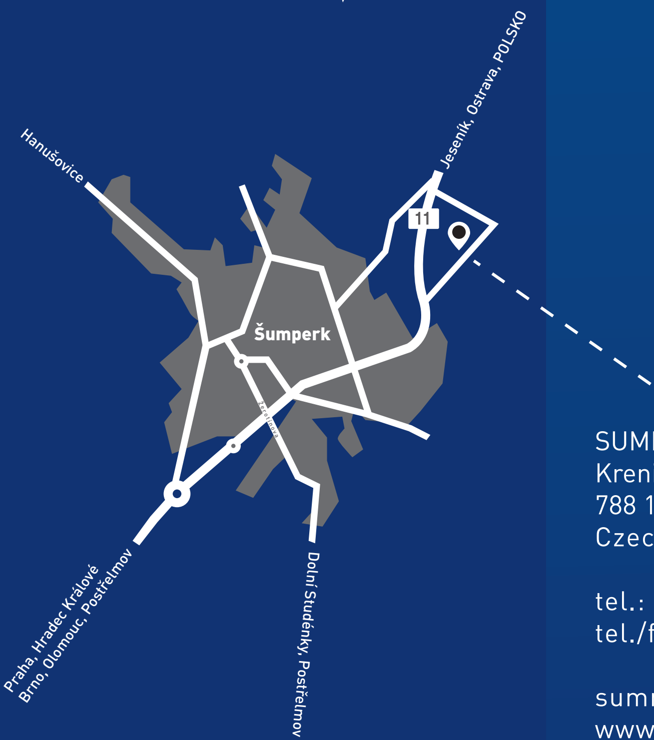

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