

FinnSonic

INDUSTRIAL CLEANING SYSTEMS



Crystal Range – Modular Cleaning System

Grows together with your company
Flexible • Future proof • Affordable

Crystal Range – Clear Options Suited for Every

Basket transporting

Industrial environments demand good and effective cleaning methods. The automated Crystal Range offers you real benefits by releasing operating personnel for other tasks and by enabling repeatability of the cleaning result. Automation guarantees greater operator safety and improves overall quality. Automation also gives you a possibility to integrate the machinery later as a part of production line. That is how the Crystal Range grows together with your company.



Automation



Transport gripping head.

The automated Crystal Range with MBT-transporter. Encapsulation increases workers' safety and reduces noise. All stainless steel construction ensures long life even in harsh surroundings.

Conveyors



Motorised chain conveyor for loading and unloading provides storage buffer. Gravity conveyor for light weights.



Plug-in control system through intelligent Finnsonic data bus.

ery Application



6-stage Crystal Range cleaning process with integrated, pneumatically operated assisted lift.



Pneumatically operated assisted lift for easy basket handling. Loads up to 50 kg.

Pneumatically operated assist lift

Agitation

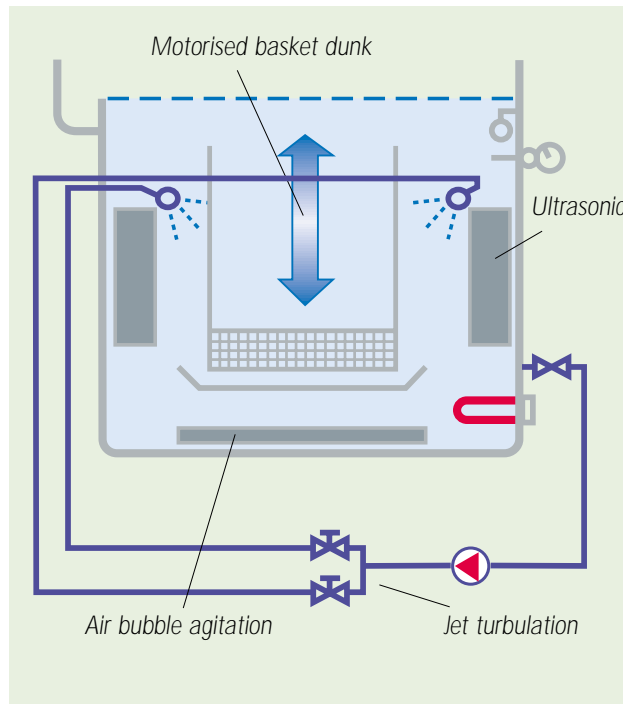
Ultrasonics is the most effective cleaning method available today. It is typically used in wash stages and can also be used to improve the rinsing result. Jet turbulence flushes cavities and tubes effectively and is used for heavily contaminated parts. Air bubble agitation increases the efficiency of normal immersion rinsing. Dunking creates liquid flow and moves the wash basket so that the part to be cleaned receives an even ultrasonic cleaning effect.



Dunking 25 kg.



Air bubble agitation.



Ultrasonic wash.



Dunking 80 kg.

Fluid handling

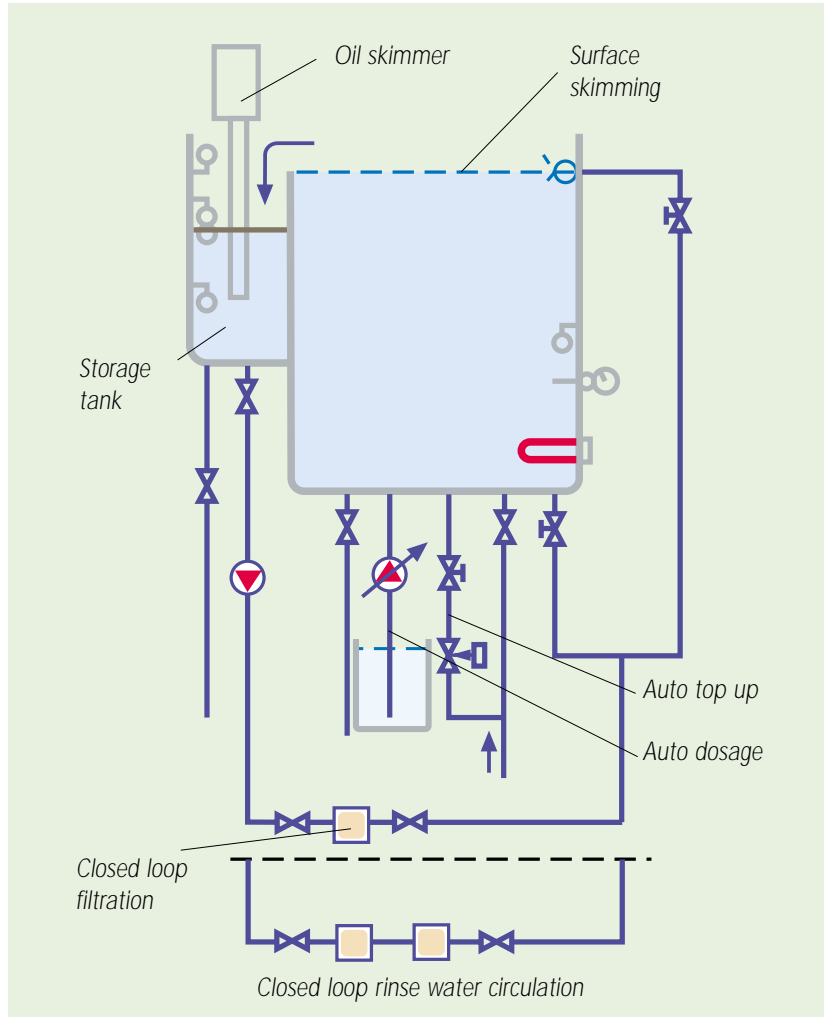
Finnsonic fluid handling options help you to cut operating costs. It comprises different filtration and oil removal techniques as well as systems that increase the life of wash and rinse liquids whilst providing more consistent cleaning results.



Extended storage weir.



Closed loop particle filtration with 10' cartridge filters.



Baskets

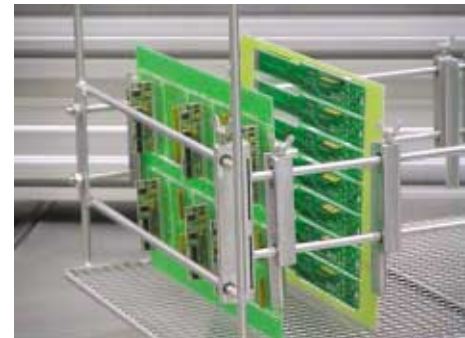
Baskets in various types and sizes according to customer's requirements.



Wash basket for CR-90.



Wash jig for parts trays.



Wash basket for PCB's.

Precision Cleaning Made to Measure



The Crystal Range is a series of ultrasonic cleaning units designed for a variety of applications in parts cleaning and maintenance. Thanks to its modular design, the Crystal Range can be applied to various cleaning processes from single-stage ultrasonic cleaning to demanding precision cleaning with numerous stages.

Typical cleaning applications are automotive and jet engine parts, bearings, hydraulic and pneumatic components, printed circuit boards, electric parts, precision parts, tools, nozzles and armatures.



Crystal Range modularity results in both technical and cost advantages for you, not only at the time of purchase, but also in future years. Design of the optimal cleaning process is now easier than ever. The standardized, tried and tested modular construction helps you to keep the investment within your budget constraints.

The equipment is built to be long lasting and is made completely in stainless steel where only components of the highest quality are used. In addition to this, the system expandability makes the Crystal Range a truly future-proof investment for you.

Electric control cabinet is integrated within the framework enabling simple plug-in installation.



Vacuum dryer can be integrated into CR-system.



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Technical data

Tank unit	CR-50 I / II / III*	CR-90 I / II / III*	CR-150 I / II / III*	CR-210 I / II / III*
Liquid volume l	55	90	160	210
Basket external dim. mm	210 x 295 x 300	300 x 425 x 300	400 x 550 x 400	450 x 630 x 400
External dimensions mm l x w x h	900 / 1450 / 1950* x 950 x 1000	1000 / 1650 / 2250* x 950 x 1000	1200 / 2000 / 2750* x 1050 x 1000	1350 / 2200 / 3050* x 1150 x 1100
Connection power kW	2.6 / 4.6 / 6.6*	4.2 / 7.2 / 10.2*	6.2 / 11.2 / 16.2*	7.4 / 12.4 / 17.4*
U/S power W nom/peak	600 / 1200	1200 / 2400	1200 / 2400	2400 / 4800
U/S frequency kHz	27	27	27	27
Hot air dryer	CRD-50	CRD-90	CRD-150	CRD-210
Drying capacity	3 baskets	2 baskets	1 basket	1 basket
External dimensions mm	2150 x 1000 x 1000	2150 x 1000 x 1000	1550 x 1390 x 1000	1560 x 1110 x 1100
Connection power kW	8.5	8.5	8.5	13.5

*Single stage / two stage / three stage

References

- Abloy
- Atlas Copco
- Bayrische Bohrerwerke
- Bekaert
- BMW
- Bosch
- Brukens Sverige
- Celsius Tech Electronic
- Deutsche Bahn
- Dräger
- Ericsson
- Finnair
- Hamilton Sundstrand
- IMT Messtechnik
- Unipart Industries Ketlon
- Kvaerner Masa-Yards
- Lego
- Legrand
- Lucas
- Mühlbauer
- Neles Controls
- Nokia
- Pall
- PerkinElmer
- Planmeca
- Ralston Energy Systems
- Sabena
- Sandvik Coromant
- Seco Tools
- Spanish State Mint
- Theysohn Extrusionstechnik
- Wilkinson Sword

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