

R4

Industrial parts cleaning machine with solvents



Fast and powerful

R4 FAST AND POWERFUL

Thanks to its highly efficient process technology and low energy consumption, the R4 offers excellent cleaning results combined with high throughput.

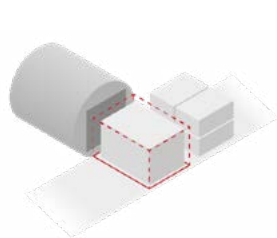
CHOOSE BETWEEN TWO WORKING CHAMBER DEPTHS

Choose from a range of chamber depths in combination with standardised basket systems to achieve the throughput rate you need – our technicians would be delighted to advise you.

R4X

Standard chamber

Length of basket holder in working chamber up to 1.250 mm

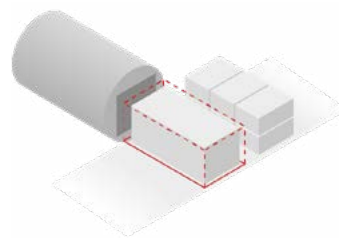


Max. load dimensions (L x W x H):
1 x 1.220 x 670 x 790 mm, or
4 x 660 x 480 x 400 mm

R4Z

Large-volume chamber for high throughput

Length of basket holder in working chamber up to 1.600 mm



Max. load dimensions (L x W x H):
1 x 1.575 x 670 x 790 mm, or
6 x 660 x 480 x 400 mm

PROVEN QUALITY

The machines of the R4 series make use of the specific properties of solvents for the cleaning, degreasing and/or preserving of parts. Operators can choose from a range of conventional solvents that achieve optimum cleaning results, taking into account the actual level of contamination of the parts.

- **High availability** High availability thanks to top-quality, standardised and tested components from leading manufacturers
- **Perfect media treatment** with permanent full-flow and optional bypass filtration
- **Saving costs** with Pero full vacuum technology with extra low solvent and stabilizer consumption
- **Flexibility** thanks to modular machine extensions
- **Unrivalled operator comfort** thanks to automated, timer-controlled maintenance routines



ECOLOGICAL & ECONOMICAL

All process steps take place under full vacuum. This supports cleaning in solvents, reduces energy consumption and allows short cycle times with maximum safety.

- High level of technical cleanliness thanks to combined **cleaning, rinsing** and **vapor-degreasing** processes
Optional: ultrasound cleaning and/or preservation
- **Maximal energy efficiency:** heating output controlled by Energy Manager
- Model "Universal" for exceptional **future security:** allows optional modification from CHC to alternative solvents such as hydrocarbons or modified alcohols
- Redundant process monitoring combined with fire and explosion protection equipment **protects humans and the environment**



Optimised piping geometry and high pump rate for high cleanliness requirements



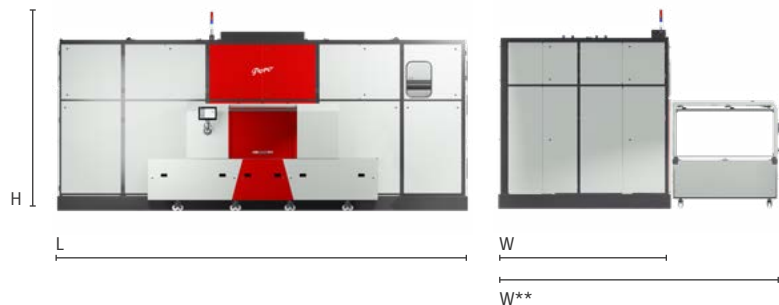
Optional: processing chamber with ultrasound unit



User-friendly control interface

TECHNICAL DETAILS – R4

External machine dimensions



	R4X	R4Z
H	2,9 m	3,5 m
L	7,0 m	7,0 m
W	3,0 m	3,0 m
W**	5,0 m	5,0 m

** automatic charging unit

CLEANING MEDIUM

Hydrocarbons or modified alcohols with flashpoint > 55° C; halogenated hydrocarbons; further solvents on request

BATCHES / GOODS CARRIERS

Standard-external dimensions (L×W×H), max.	R4X	1× 1.220 × 670 × 790 mm or 4 × 660 × 480 × 400 mm
	R4Z	1× 1.575 × 670 × 790 mm or 6 × 660 × 480 × 400 mm

further sizes or combinations on request

Batch weight, max.	650 kg
Height of charging unit	depending on charging method

THROUGHPUT

Depending on chosen process	up to 6 batches / h
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PERFORMANCE DATA

Connected load	approx. 98 – 103 kW
Heat output	36 / 54 kW, selectable (energy manager)
Heating-up time of machine	approx. 120 min
Sound level	< 75 dB (A)
Solvent volume 1-bath	2.400 l
Solvent volume 2-bath	3.780 l

OPTIONS

e.g. ultrasound, remote maintenance, preservation bath, etc.

All specifications are approximate values and may vary depending on equipment – errors and omissions excepted



FOCUSED ON OUTCOMES

At our Centre of Competence in Königsbrunn, we assist you in finding the best cleaning solution for your specific needs.

More than 15 water- and solvent-based test machines are available in an area of 1000 m². We design optimised cleaning methods and programs that meet your needs by performing test runs with your own dirty parts.

Even before you have decided about the investment, assessing the profitability of the future process can be carried out. The defined technical cleanliness of the components reliably reached and maintained.



MAKING USE OF STRONG PERFORMANCE

- Cleaning tests free of charge, using parts provided by the customer; including documentation
- Evaluations and analyses of cleanliness according to VDA 19 in our laboratory

Contact us for advice:
en.pero.ag/contact-to-pero

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RELIABILITY YOU CAN BANK ON



Safe and reliable

High-precision production and spare parts service



Quality made in Germany

80% vertical range of manufacture in Germany



Worldwide sales and service

Global network of certified service partners

pero

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