

Sientop: Europe's market leader

Economic and ecological pickling of stainless steel

Made in Germany and represented throughout Europe. The planning, as well as the construction, of the individual pickling plants are "Made in Germany". Transport and installation at customers' facilities, as well as the targeted training of their employees, are carried out throughout Europe. In addition to the personal local services provided by Sientop employees, operating mode as well as programme changes to the plants can be carried out quickly and easily at any customer's location from the central facilities in Germany by using a computer-controlled remote maintenance system.

As a TÜV certified company and a member of the German stainless association Informationsstelle Edelstahl Rostfrei (ISER), Sientop can offer its customers reliable professionalism and innovative quality.

Service and safety are paramount

Sientop GmbH also

The family-run company Sientop has been developing EU patented technologies for pickling processes for more than 30 years, and as a market leader in the sector of stainless steel processing and surface technology sets the standards in Germany and throughout Europe. Economic and ecological optimisation are key focal points for the company. Automated processes to reduce time and resources, as well as an emission-free operation of pickling plants with the lowest usage of chemicals, are the innovative and unique selling points of the Sientop Rotainer® technology.

supports its customers in an advisory capacity. From the testing of existing pickling plants, to process analyses, and to advice on and implementation of technical and chemical optimisation potentials, Sientop supports companies involved in the pickling sector to achieve improved competitiveness and environmental friendliness.

And just as important: the safety of employees. Pickling processes are inextricably linked with the use of potentially health endangering acids, which

is why there is a legal obligation for relevant companies to provide training for those employees who are responsible for pickling operations. In accordance with the Law on the implementation of occupational safety measures for improving the safety and health of workers at work (OSH Act - ArbSchG), § 12 Training, Sientop offers suitable in-house and external training for companies involved in pickling.

Innovation is tradition

Since 1986, Sientop

has been successfully pursuing the goal of enabling metal processing companies to achieve high quality pickling of stainless steel with automated processes and ecological efficiency. Rotainer® pickling plants combine resource optimised technologies with environmental requirements. As a result, Sientop plants can be operated without a permit and are not subject to German emission laws (BImSchG). The pickling process is innovative, and saves both time and money: degreasing, pick-

Features of the Top+ BlueRotainer®

Double walled	✓	Automated pickling bath	optional
Spray system	✓	Automatic Redox measurement and dosing	✓
Rail system	✓	Automatic media heating	✓
Trolley	✓	Manual spray pickling unit	optional
Level controlled pump sump	✓	Manual pickling bath	-
Automatic pickling	✓	Pickling table	-
Automatic rinsing	✓	Emergency shower	✓
Automatic passivating	✓	Outside positioning	✓
Automatic degreasing	optional	Waste water treatment plant	✓
Automatic clear water rinsing cycle	✓		

Features of the Top BlueRotainer®

Double walled	✓	Automated pickling bath	-
Spray system	✓	Automatic Redox measurement and dosing	✓
Rail system	✓	Automatic media heating	✓
Trolley	✓	Manual spray pickling unit	optional
Level controlled pump sump	✓	Manual pickling bath	✓
Automatic pickling	✓	Pickling table	-
Automatic rinsing	-	Emergency shower	✓
Automatic passivating	✓	Outside positioning	✓
Automatic degreasing	optional	Waste water treatment plant	-
Automatic clear water rinsing cycle	✓		

ling, passivating, rinsing and air rinsing - everything is done automatically. With a high pickling quality. And short pickling times. Emission-free pickling with 90% water recovery and a work environment with no contact with acid are further advantages of this technology. What is also important to know: Siedentop plants can be leased and have short amortisation times.

Rotainer® pickling plants: an overview

Siedentop supplies Rotainer® pickling plants in various models and sizes, and with a range of spe-

cial features. The various models available mean that the particular pickling requirement with respect to the kind and size of the workpiece as well as the quantity to be pickled and the technological requirements can be met.

TOP Line

For companies with a high pickling requirement and which need timesaving, fully automated processes, TOP Line makes sense.

TOP+ BlueRotainer® - Siedentop premium plants incorporating all features

The TOP+ BlueRotainer®, with all the technical features included, is the premium plant among the various pickling processes. It consists of two transportable, accessible units, each with a pickling and technical unit. Construction in special sizes is possible.

The TOP+ BlueRotainer®, with an external width of 3,000mm and an external height of 3,200mm, is available in the following sizes:

Plant size	Pickling area external length
S	6,000mm
M	8,000mm

L	10,000mm
XL	12,000mm
Xtra ³	Individual special sizes according to customer specifications are possible

TOP BlueRotainer® - Siedentop premium plants with standard features

The TOP BlueRotainer® is suitable for companies which need comprehensive technical features but without a waste water treatment plant. This plant comprises two transportable units, each with an accessible pickling and technical unit. Special sizes are possible.



Material remains and overstock are lying pointless in your warehouse – wouldn't you rather use their value to buy pointless things?



Up to **150'000 of Euro's** of materials are sitting for years in warehouses, wasted! These stainless steels, nickel alloys and titanium alloys are too valuable to be sold as scrap or to lie around! We can make cash with these products, with **two to four times more revenue** as through the scrap channel! Easily. Simply. Safe.

Features of the Basic+ BlueRotainer®

Double walled	✓	Automated pickling bath	-
Spray system	-	Automatic Redox measurement and dosing	optional
Rail system	-	Automatic media heating	-
Trolley	optional	Manual spray pickling unit	optional
Level controlled pump sump	✓	Manual pickling bath	✓
Automatic pickling	✓	Pickling table	optional
Automatic rinsing	-	Emergency shower	✓
Automatic passivating	-	Outside positioning	-
Automatic degreasing	-	Waste water treatment plant	✓
Automatic clear water rinsing cycle	✓		

The TOP BlueRotainer®, with an external width of 3,000mm and an external height of 3,200mm, is available in the following sizes:

Plant size	Pickling area external length
S	6,000mm
M	8,000mm
L	10,000mm
XL	12,000mm
Xtra ³	Individual special sizes according to customer specifications are possible

BASIC Line

The BASIC Line is a versatile standard plant with solid basic features. Customers can choose between automated and manual pickling technology.

BASIC+ BlueRotainer® - Siedentop plant classic with variable features

The BASIC+ BlueRotainer® offers a variable basic specification for professional and high quality pickling. The technical specification can be either for manual or automated

pickling depending on the customer's requirements. The plant consists of a transportable, accessible unit consisting of a pickling and technical unit. Special sizes are possible.

The BASIC+ BlueRotainer®, with an external width of 3,000mm and an external height of 3,200mm, is available in the following sizes:

Plant size	Pickling area external length
S	4,000mm

M	6,000mm
L	8,000mm
Xtra ³	Individual special sizes according to customer specifications are possible

BASIC BlueRotainer® - Siedentop plant classic for manual pickling

The BASIC BlueRotainer® offers a solid basic specification for high quality manual pickling without a waste water treatment plant. This plant consists of a transportable, acces-

Features of the Basic BlueRotainer®

Double walled	✓	Automated pickling bath	-
Spray system	-	Automatic Redox measurement and dosing	-
Rail system	-	Automatic media heating	-
Trolley	optional	Manual spray pickling unit	optional
Level controlled pump sump	✓	Manual pickling bath	optional
Automatic pickling	-	Manual passivating bath	optional
Automatic rinsing	-	Pickling table	optional
Automatic passivating	-	Emergency shower	✓
Automatic degreasing	-	Outside positioning	-
Automatic clear water rinsing cycle	-	Waste water treatment plant	-

sible unit consisting of a pickling and technical unit. Special sizes are possible. The BASIC BlueRotainer[®],

with an external width of 3,000mm and an external height of 3,200mm, is available in the following sizes:

Plant size	Pickling area external length	M	6,000mm
		L	8,000mm
		XL	10,000mm
S	4,000mm	Xtra ³	Individual

Features of the Mobile BlueRotainer[®]

Double walled	✓	Automated pickling bath	-
Spray system	-	Automatic Redox measurement and dosing	-
Rail system	-	Automatic media heating	-
Trolley	optional	Manual spray pickling unit	optional
Level controlled pump sump	✓	Manual pickling bath	optional
		Manual passivating bath	optional
Automatic pickling	-	Pickling table	optional
Automatic rinsing	-	Emergency shower	✓
Automatic passivating	-	Outside positioning	✓
Automatic degreasing	-	Waste water treatment plant	-
Automatic clear water rinsing cycle	-		

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TAKE A LOOK!



Features of Eco BlueRotainer®

Double walled	✓	Automated pickling bath	-
Spray system	✓	Automatic Redox measurement and dosing	-
Rail system	-	Automatic media heating	✓
Trolley	Baskets	Manual spray pickling unit	-
Level controlled pump sump	✓	Manual pickling bath	-
Automatic pickling	✓	Pickling table	-
Automatic rinsing	✓	Emergency shower	optional
Automatic passivating	✓	Outside positioning	-
Automatic degreasing	-	Waste water treatment plant	-
Automatic clear water rinsing cycle	✓		

special sizes according to customer specifications are possible

available in the following sizes:

Plant size	Pickling area external length
L	4,000mm
XL	10,000mm

ECO Line

The ECO Line is recommended for companies with low volume components, such as small components and series components.

ECO BlueRotainer® - Sidentop's compact plants for small components

The ECO BlueRotainer® is highly suited for the automated pickling of small parts. Installation is in a works area in an included safety bath. This plant comprises a pickling unit with containers for pickling agents and passivation.

The ECO BlueRotainer® is available in the following sizes:

Plant size	Pickling area size
S	1,300mm
M	1,800mm
L	2,300mm
XL	2,800mm

MOBILE Line

For pickling requirements on construction sites or at different locations, the MOBILE Line offers the best solution.

MOBILE BlueRotainer® - Sidentop's manual plant for location flexibility

The MOBILE BlueRotainer® is installed in an overseas container and is ideally suited for pickling operations on, for example, building sites. Rapid set-up and dismantling are key features. Depending on the customer's requirements, the plant can be equipped either for manual spray pickling or immersion pickling. This plant consists of a transportable unit, with a pickling and technical unit.

The MOBILE BlueRotainer®, with an external width of 3,000mm and an external height of 3,200mm, is

Sidentop spray system

