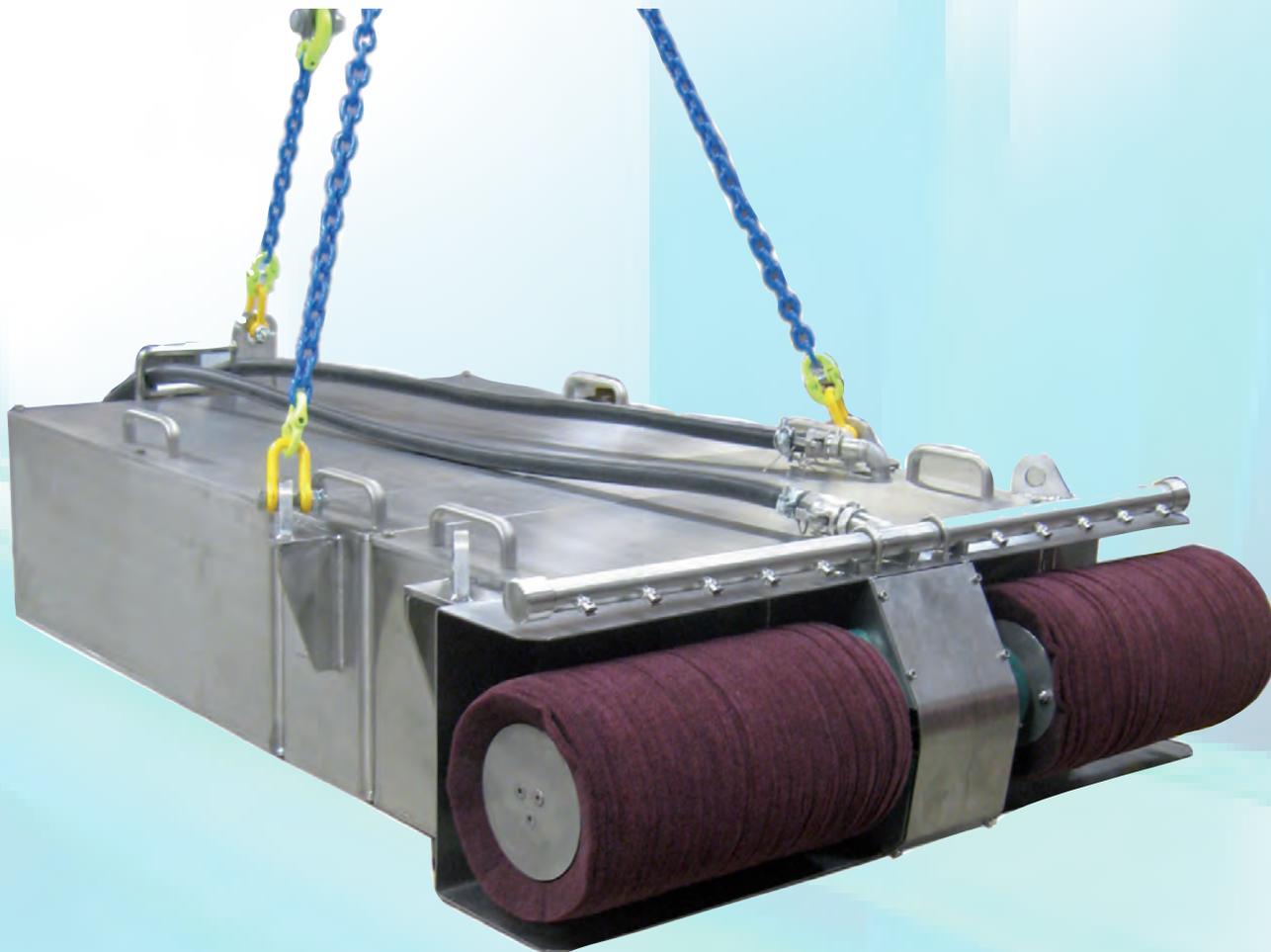
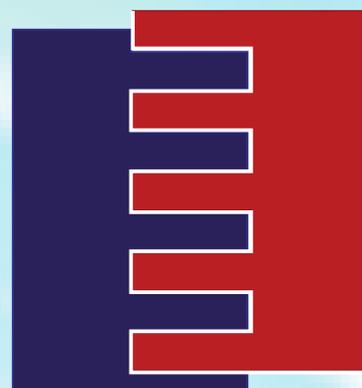


DECO - SYSTEMS

Contaminated Reactor Pools?



Reactor Cavity
Cleaner RCC-I



FAGERSTRÖM
DECO - SYSTEMS





RCC-I can be delivered with air motors or electrical motors
 The rotation of the brushes polishes the surface and removes the contamination without removing any material off the wall. RCC I is maneuvered with the polar crane which it is hanged up in. A module system making it possible in an easy way to elaborate its accessibility after Your needs. RCC I minimizes time needed for cleaning, airborne contamination and also a considerable reduction of personal radiation dose.

Our Cleaners will help you to:

- Minimize time spent on cavity decon and therefore reduce critical path.
- Reduce worker exposure.
- Minimal waste generation.
- Prevent airborne contamination and allow reactor head work without respirators.

Compare it with other systems

A U.S Nuclear Power Plant made the following comparisons between methods they have used:

	Hydrolasing	Hand Scrubbing	Strippable paint	RCC-I
Job Duration (days)	5-7	5	5	0.7-2.5
Crane Time (days)	3	3	3	0.33-1.5
Preparation Time (days)	-	-	2	-
Exposure (Person-rem)	~ 10	5.6-8.0	5.7-8.5	2.3-4.3
Avg. Surface Contamination After Decon (Kdpm/100 cm2*)				
Walls	20	20	10	4-10
Floor	20-50	20	20	15-20
Cavities	250	250	250	20-150
Solid Waste (cu.ft.)	-	75	56	5
(m³)	-	2.1	1.6	0.14
Waste Water (gallons US)	20 000	10 000	2 000	8 000
(m³)	75	38	7.5	30
Airborne Activity	Yes	Yes	Yes	No
Skin Contaminations	10	10	2	1

* Kdpm = 1 000 disintegrations per minute;
 1 Kdpm/100cm² = 1/6 Bq/cm² = 4,5 10-6 µCu/cm²



RCC 10 (Reactor Cavity Cleaner) cleans the basin with two against each other rotating brushes. The machine is easily maneuvered along the walls and controlled by two joysticks. Transfer in height is done by emptying the basin. Two jetbeams provides necessary bearing pressure against the wall. Decontaminates the basin at the same time it is emptied. Minimizes necessary time for cleaning. Only the oxide layer is removed. Prevents airborne contamination by absorption. Crane is not occupied. Reaches even curved walls.



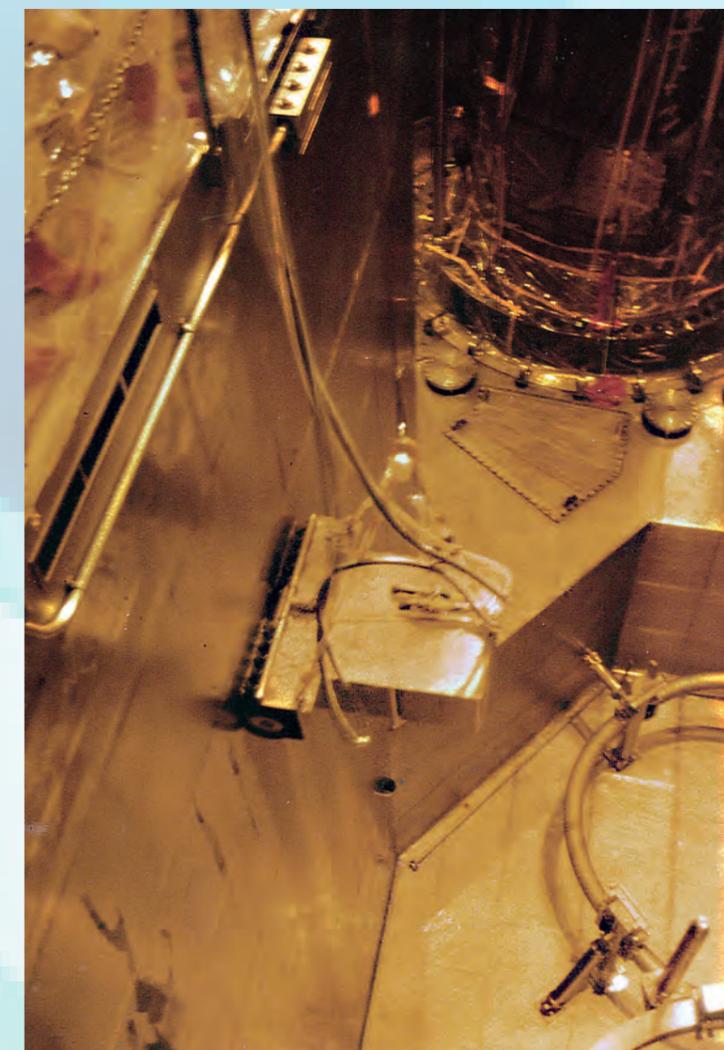
The control unit consists of a shut-off / ball valve serially connected to a filter regulator. These components are mounted into a stainless steel housing with hooks on the rear for hang on the cavity wall railings.

The RCC-I is designed to effectively remove the surface contamination from the vertical cavity walls. The Cleaner is operated up and down along the cavity walls using a standard overhead travelling crane with a hook and a minimum lifting capacity of 1000 kg. The treatment results in a smooth and well polished surface. The Cleaner comprises a driving unit with an air driven lamellar-engine, a counter-weight unit, a roller brush unit and an optional extension box unit. The roller brush unit is controlled with the control unit at the edge of the cavity.

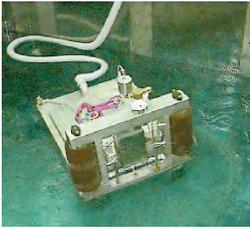
An optional extension box unit is available at the request of the customer. This kit is intended to increase the reach ability to the cavity walls (see Extended Cavity Cleaner)



Extended Cavity Cleaner



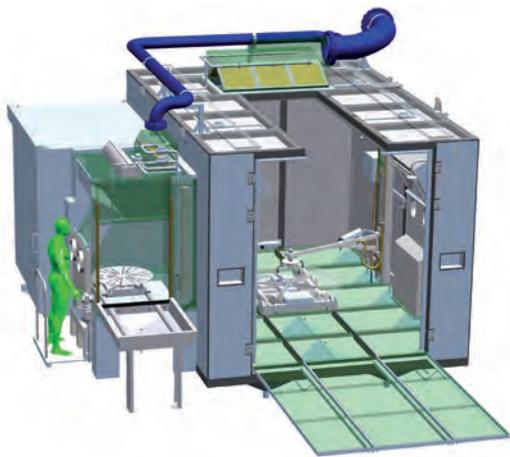
Fagerström Deco-Systems has developed the most effective cleaning machines for decontamination of cavities as reactor- and fuelpools.



RCC-10 (Reactor Cavity Cleaner) cleans the basin with two against each other rotating brushes. The machine is easily manoeuvred along the walls and controlled by two joysticks. Transfer in height is done by emptying the basin. Two jetbeams provides necessary bearing pressure against the wall. Decontaminates the basin at the same time it is emptied. Minimizes necessary time for cleaning. Only the oxide layer is removed. Prevents airborne contamination by absorption. Crane is not occupied. Reaches even curved walls.



RCC-1 can be delivered with air motors or electrical motors. The rotation of the brushes polishes the surface and removes the contamination without removing any material off the wall. RCC-1 is manoeuvred with the polar crane which it is hanged up in. A module system making it possible in an easy way to elaborate its accessibility after Your needs. RCC 1 minimizes time needed for cleaning, airborne contamination and also a considerable reduction of personal radiation dose.



Fagerström Deco-systems has developed High pressure and Wet blasting booths. We build to your needs.



Fagerström Deco-systems has developed a DeconWash for small parts. We build to your needs.



Fagerström Deco-systems has developed a Sorting Box for waste with In-Drum 20 tons Compactor. We build to your needs..

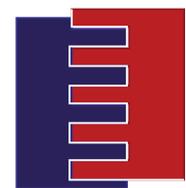


Fagerström Deco-systems has also smaller alternative High pressure or Wet blasting- and rinsing cabinets. We build to your needs.



Fagerström Deco-systems has developed a Drum Transport Trolley for easy handling of waste drums.

We build to your needs.



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