



## BoatWasher Swede, 400-600, MS Float



**Cleans the hull from algae, barnacles and other fouling. Cleans both motor- and sailing yachts.**

**Three sizes of washers fits most boat types, up to approximate 25-meter length, 6 meter width and 2,4 meter depth.**

Size of biggest washable boat <sup>1)</sup>:

| <u>Model</u> | <u>Max. width, cm</u> | <u>Max. depth, cm</u> | <u>Max. length</u> |
|--------------|-----------------------|-----------------------|--------------------|
| Swede 400    | 400                   | 220                   | ∞                  |
| Swede 500    | 500                   | 220                   | ∞                  |
| Swede 600    | 600                   | 240                   | ∞                  |

- 1) Maximum measures depend on type of boat, hull, rudder, keel, shaft etc.  
The length of the washable boat is no restriction while the boat is winched back and forth over the brushes. Put the winching point at a distance from the washer equivalent with the length of the longest boat to be washed.



## Easy and fast to handle



1. Drive the boat into the washer
2. Attach the bow to the winch rope
3. Turn of the motor
4. Start the brushes and winch the boat back and forth over the brushes once or more, depending on growth on the hull.
5. Let the brushes push the boat out of the washer.
6. Start engine and enjoy your boat trip

## The washing speed is adjustable, 1-2 meter hull / minute

| <u>Boat length:</u> | <u>Time for wash:</u> |
|---------------------|-----------------------|
| 16 ft / 5 meter     | 5-10 minutes          |
| 22 ft / 7 meter     | 7-14 minutes          |
| 30 ft / 9 meter     | 9-18 minutes          |
| 35 ft / 11 meter    | 11-22 minutes         |
| 40 ft / 14 meter    | 14-28 minuter         |
| 50 ft / 15 meter    | 15-30 minuter         |



## Possible to clean shaft and stern



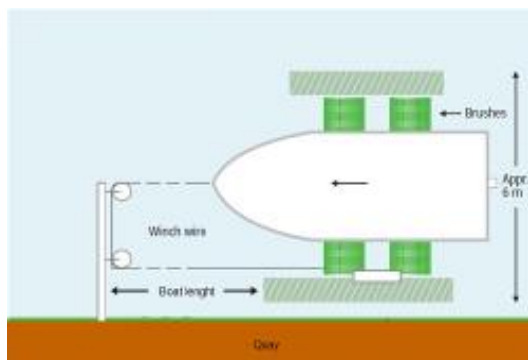
Thanks to adjustable ledges on both sides it is possible to clean shafts and stern with a brush or high pressure water.

## Unique features

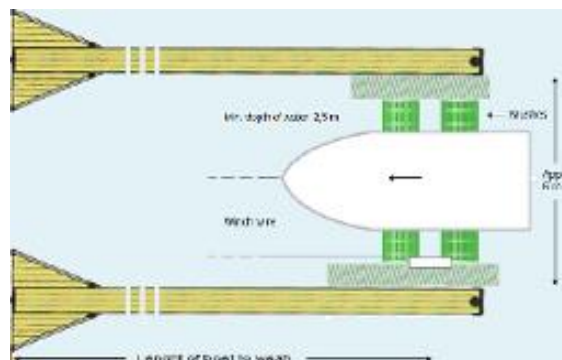
- Possibility to clean stern, outboard shafts and propellers, and externally mounted rudders.
- Easy to place in odd places and narrow harbours
- Twin rows of brushes give faster, more stable and easier operation than single row.
- Fewer moving parts give longer life.
- Four wheels on chassis give easy loading on trailer, launch able on sea ramp/slip, easy mowing on land.
- Waste gathering basin with pump and sludge tank.



## Easy to place – Need only little space

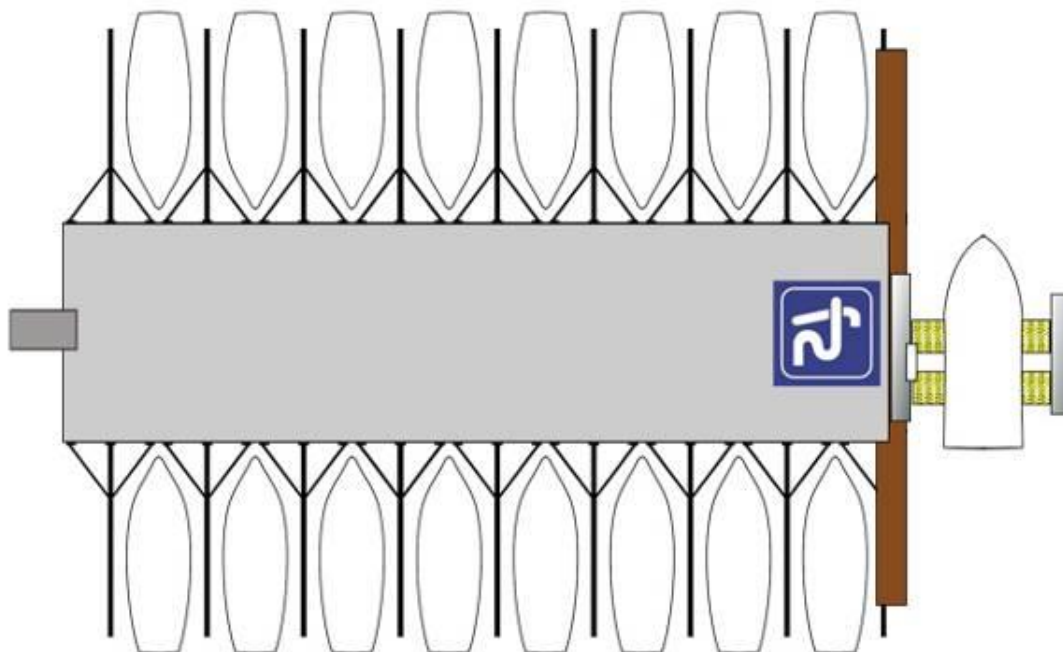


Placed on quay or jetty



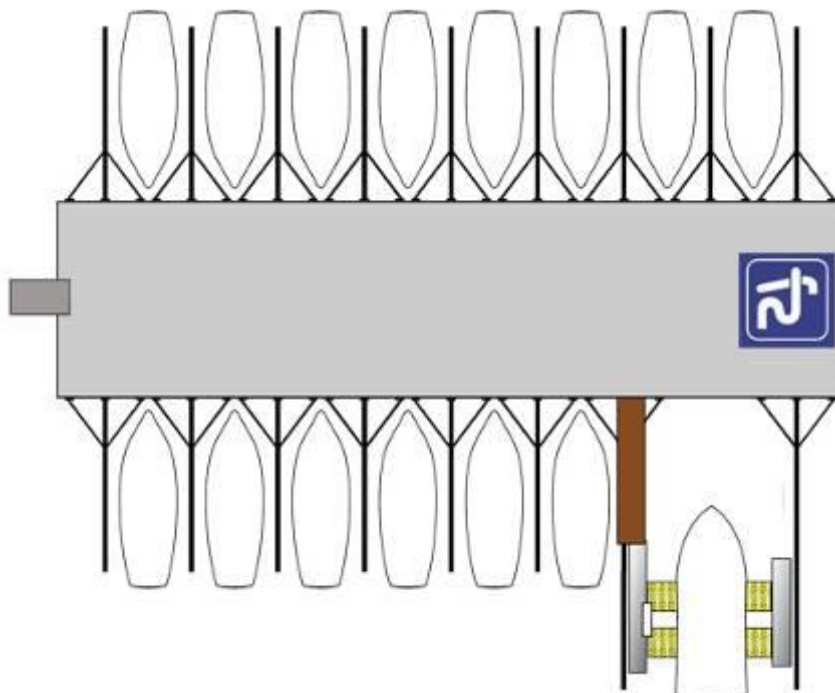
Placed between y-booms (Only float models)

## Placed on edge of jetty



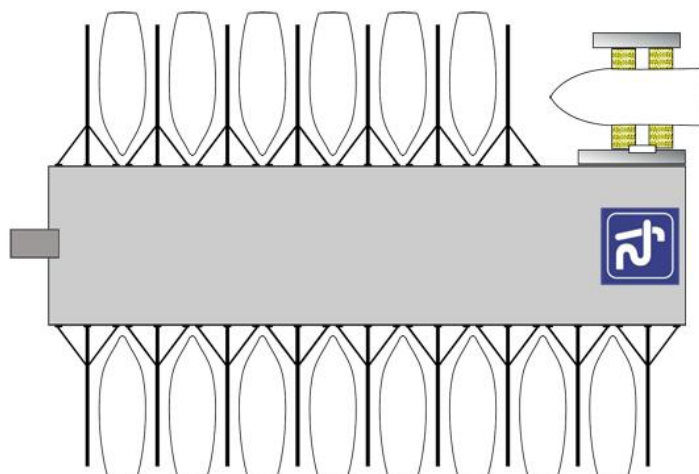


## Placed between y-booms

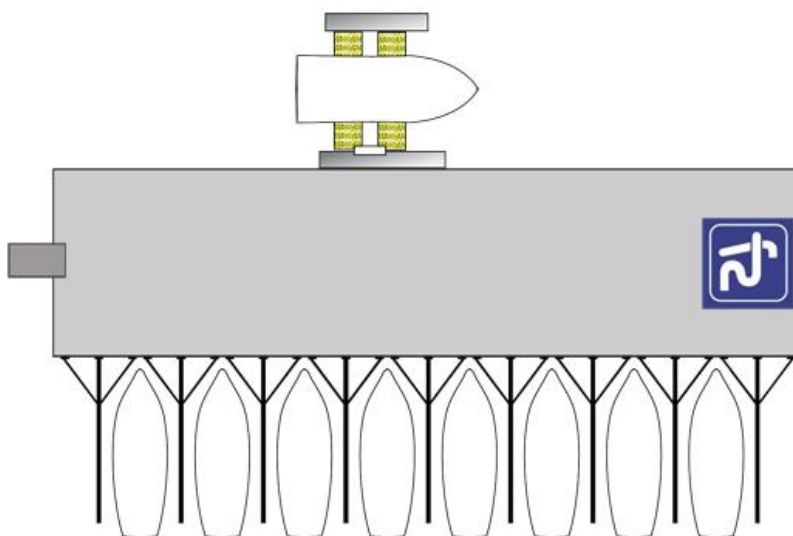




## Placed along dock/jetty or quay

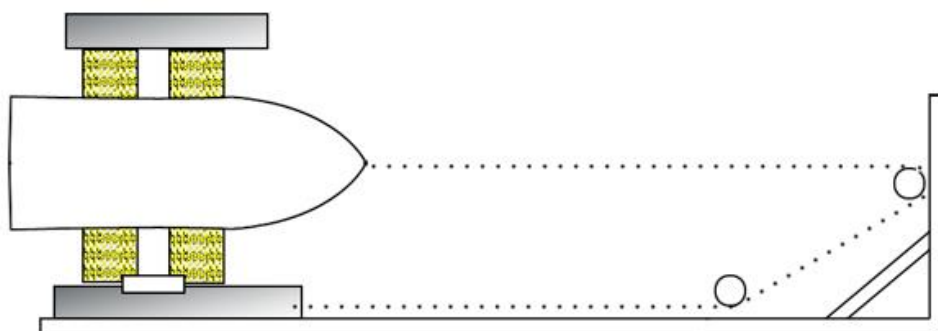


## Placed on standalone dock/jetty





## Mobile/free floating with winch arm



Easy to move in water.  
Tow or mount outboard motor.

Electricity needed "on board" or through land cable.



## Brushes



### Two rows of brushes

Faster, more stable, and more comfortable operation...then one row of brushes

### Horizontal brushes

Cleans bottom and part of the boat's sides.

The angle of the brushes follows the shape of the boat bottom. The angle can also be changed manually

### Vertical brushes:

Cleans keel, rudder and lower parts of shafts/propellers.

Rudders on stern and outboard shafts can be cleaned thanks to the outside-lying vertical brushes.

### Brush pressure

The brushes are floating in the water and the pressure can be adjusted by pumping in and out air in the pontoons and by a winch cord.

### Hydraulics

The brushes are rotated by hydraulic motors, driven by an electrical motor. Output requirement 4.0 kW (400V, 16 A), 3-phase





## Roll on and off trailer



## Launch on slip or lift with crane





## Waste gathering basin



In case you want to wash boats with sloughing-paint that come off during the washing process, you can assemble a catch basin under the boat washer. Dissolved paint brushed away from the hull falls down into a pocket in the bottom of the basin. Basin sludge is removed regularly, and the remains taken to a recycling centre for disposal.

### Model:

WGB90T (Waste gathering basin including pump and 1m3 water tank)



## Start-Up in less than a day

The washers are easy and fast to launch and start.

When mounted on site, plug in the cord and start washing boats immediately.

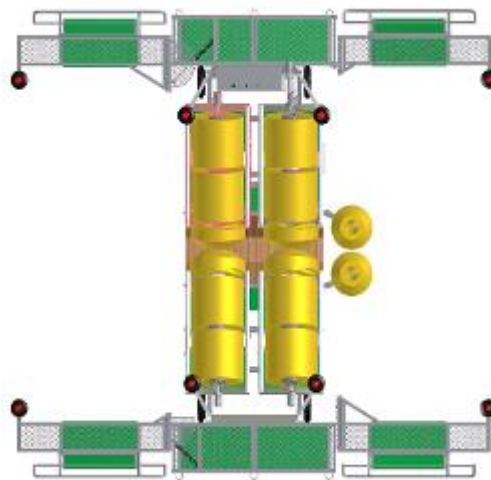
## Easy maintenance and storage

### Winter storage:

- 1) Put on land, do necessary service and cover with canvas or put inside.
- 2) Leave in water if no ice or keep waters free from ice with rotator or compressor.

### Service – Short version:

1. Take the parts to be served above waterline or put the whole machine on land.
2. Clean with med high pressure water.
3. Service and maintenance according to users manual.
  - a. Change hydraulic oil
  - b. Check functionality of mechanics, hydraulics, electricity, pneumatics, pontoons and other parts. Do necessary repairs.



BoatWasher Swede MS Float



## More pictures







## Comparison BoatWasher Swede vs. the first built machine.

| Unit                  | Feature/Improvement  | Why?  |
|-----------------------|--|---|
| 1. Complete system    | Clear branding by striping machine   | Build the brand "Boatwasher Swede"  |
| 2. Boatwasher         | Bigger washers; 3, 4, (5) meter wide boats washable                          | Market demand   |
| 2. Boatwasher         | Safety beams/locks for transportation and lift/hoist                         | Protects the construction from becoming damaged when lifted or transported                                    |
| 2. Boatwasher         | Stainless steel  | Stronger against corrosion and better look and feel   |
| 3. Floating "U-frame" | Sacrificial anodes   | Prevent the construction parts from being corroded  |
| 3. Floating "U-frame" | Better buoyancy for steel frame and support bridges                          | To avoid wet feet on operator or boat crew  |
| 3. Floating "U-frame" | Stable fastening of washer (on to floating dock)                             | Weak locking rings on old construction.   |
| 3. Floating "U-frame" | Strong and salt water resistant attachment for hydraulic and pneumatic pipes | Old weak attachments in plastic mounted with galvanised bolts which corroded fast                             |
| 3. Floating "U-frame" | Stronger wheels for rolling the machine on land                              | Old wheel were to weak and of bad quality   |
| 3. Floating "U-frame" | Softer design. Rounded steel frames  | Boat owners say the machine looks frightening. So much metal and ruff, sharp corners that might harm my boat. |



|                           |  |  |
|---------------------------|--|--|
| 3. Floating "U-frame"     | Wooden decks for children safety and looks                         | Safer for small feet and toes (when children walks on the machine). Improve "look and feel". The old construction had a metal grid to walk on. |
| 4. Support ledges         | Non stain wheels on support bridges                                | Old wheels left stain on the boat hulls which are not ok.  |
| 4. Supporting ledges      | Double hydraulic support bridges                                   | Better control of boat position and easier handling. Less job for operator.  |
| 5. Control panel          | Dead-man's handle/switch   | Safety for operator and boat crew  |
| 5. Control panel          | Easy locker for control panel                                      | Easier handling and theft protection   |
| 5. Control panel          | Motor noise damping  | Reduce noise from motor.   |
| 6. Winch pulling the boat | Flexible winch mounting console                                    | Fixed position on old construction gave only one way enter for boat to wash.   |
| 6. Winch pulling the boat | Stronger winch line  | Too weak and low quality on old construction   |
| 7. Brush frame            | Brush straws in angle  | To avoid dirt stripes on boat hulls where the brush straws didn't reach the boat hull  |
| 7. Brush frame            | Hydraulic motors with stainless shaft                              | Shaft not salt water resistant on old construction   |
| 7. Brush frame            | Overlapping brushes  | To avoid dirt stripes on boat hulls where the brush didn't reach   |
| 7. Brush frame            | Strong and salt water resistant spring-attachment for keel brushes | To weak and not salt water resistant spring-attachment on old construction   |



|                    |  |  |
|--------------------|--|--|
| 8. Catchment basin | Convenient metal frame for catchment basin | Easier handling, mounting and demounting |
| 9. Delivery        | 1-2 months from order                      | 2-4 month is to slow delivery            |
| 10. Spare parts    | In stock                                   |  |

**Thank you for spending your time reading this!**

Kind Regards

/☺dd Klofsten

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