Fleet Cleaner
Hull cleaning during port time

Fuel savings
Reduced emissions
No downtime
Services

What do we provide?

Hull cleaning with Fleet Cleaner

- **Sides**
  - Under and above water cleaning of vertical sides with the Fleet Cleaner installation.

- **Bottom**
  - Flat bottom cleaning of the vessel with the Fleet Cleaner installation.

The Fleet Cleaner installation is used to fully clean the ship’s hull during loading and unloading in port, which reduces fuel consumption of the vessel with 5-10%. The service is 24/7 available in all Dutch ports, and is done at terminals, buoys or dolphins.

Diver operated services

- **Propeller polishing**
  - Certified propeller polishing in cooperation with diving companies.

- **Hull inspection**
  - Class certified hull inspections (UWILD) together with diving companies.

Fleet Cleaner offers complete hull maintenance services in cooperation with certified diving companies. There is no downtime, since the diving activities are combined with the cleaning.

Extensive report

Each operation is supplemented with an extensive report:

- An overview of the cleaning operation, hull status and coating status.
- Digital cleaning log based on advanced positioning system
- All images linked to exact location on ship
# Advantages

## What can you expect from our services?

<table>
<thead>
<tr>
<th>Surface cleaned</th>
<th>Fleet Cleaner</th>
<th>Divers</th>
<th>Thruster based ROV's</th>
</tr>
</thead>
<tbody>
<tr>
<td>+ Under &amp; above water cleaning due to magnetic attachment + Curved surfaces + Cleaning between vessel &amp; quay</td>
<td>- Only under water cleaning + Curved surfaces - Both sides cleaning only on buoys or at anchorage</td>
<td>- Only under water cleaning - Limited curvature - Both sides cleaning only on buoys or at anchorage</td>
<td></td>
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<tr>
<td>Quality</td>
<td>+ Position tracking system + Navigation in zero visibility + Semi-autonomous</td>
<td>- No navigation system - Limited vision - Diver controlled</td>
<td>- No navigation system - Limited vision - Operator controlled</td>
</tr>
<tr>
<td>Downtime</td>
<td>+ No downtime: in port cleaning + Permission from all authorities + Cleaning during bunkering</td>
<td>- Not allowed in ports without fouling capture system - Limited by currents</td>
<td>- In port cleaning, but only one side at terminal - Limited by currents</td>
</tr>
<tr>
<td>QHSE</td>
<td>+ No coating damage + All fouling is captured + Diverless operation + Safe working distance between support vessel and ship</td>
<td>- Brushes damage the coating and lead to quicker fouling buildup - All fouling and damaged coating is released in the water - Limited by weather conditions</td>
<td>+ No coating damage + Fouling is captured + Diverless operation + No safe working distance, with risk of falling objects</td>
</tr>
</tbody>
</table>

**Fuel savings**

**Reduced emissions**

**No downtime**
Service provider

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Service available in all Dutch ports

Groningen Seaports (Delfzijl, Eemshaven)
Port of Amsterdam
Port of Den Helder
Port of IJmuiden
Port of Rotterdam
Zeeland Seaports (Flushing, Terneuzen)

Approved to operate by port authorities, terminals and regulating authorities.