

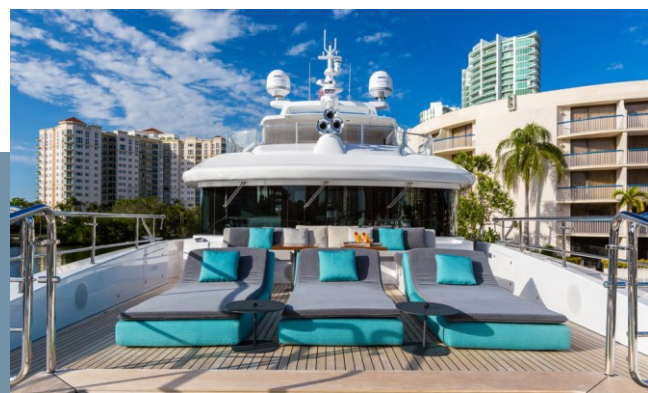
Super Yacht Line

speich





The experience acquired with naval wipers has been extended for the recreational market, in order to create excellent products for pleasure boats. In these applications there are different needs to satisfy. Often the wipers become a **distinctive element** of the design of the boat rather than a mere accessory and then arms and blades **finishing** becomes essential. Moreover, boats designers use more and more wide and inclined windows that require big windshield wipers dimensions to ensure optimum visibility.



SPEICH is a world leader in tailor-made wipers for Super Yacht applications



SPEICH wipers Super Yacht line allows you to meet those needs being designed to combine the reliability of a professional equipment with the aesthetics requirements of luxury boats.



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The Products Choice



How to choose the right product?

There is no a unique correct choice for a marine windscreen wiper

A superyacht windscreen wiper system is custom-made for each applications and ship screens plan. The system design and production is made under **strictly quality criteria** in order to respect the supply management plan and deliverables requirements compliance.

The choice depends on many factors:

→ **SWEPT AREA REQUIREMENTS**

→ **CUSTOMER REQUIREMENTS**

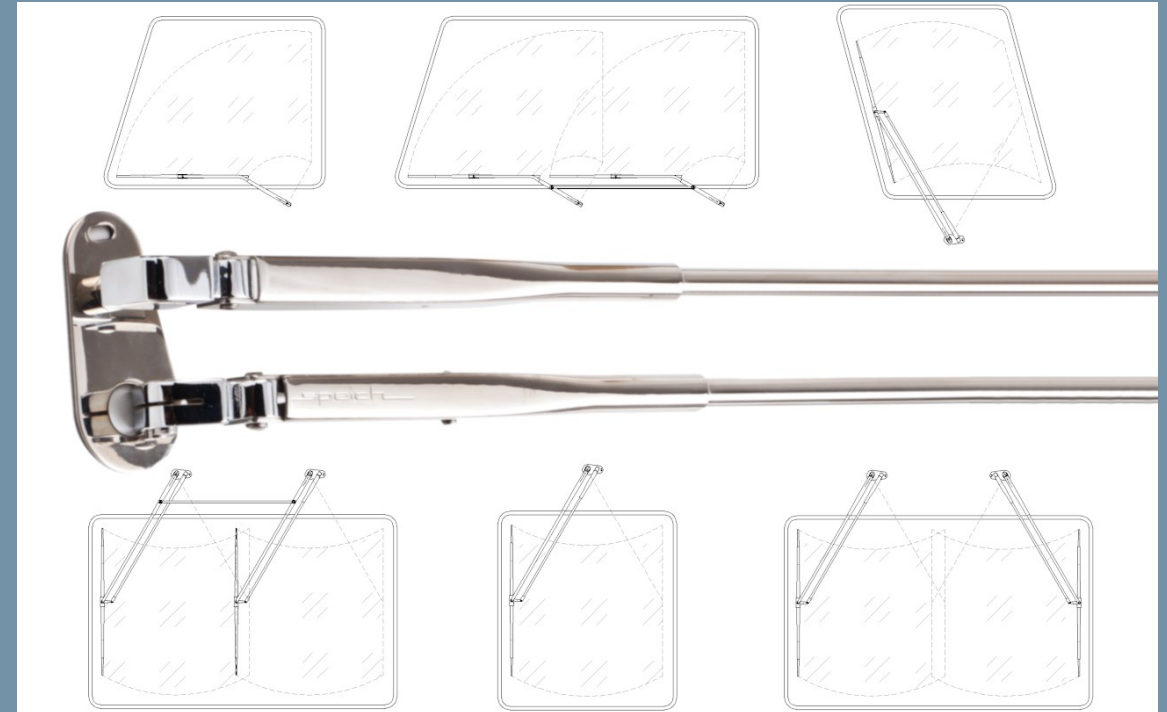
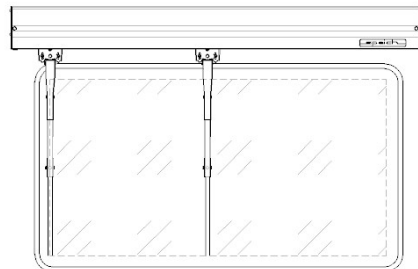
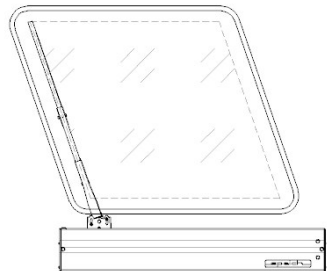
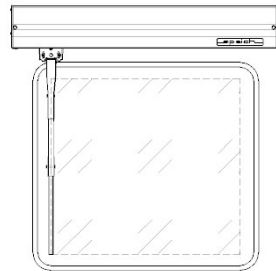
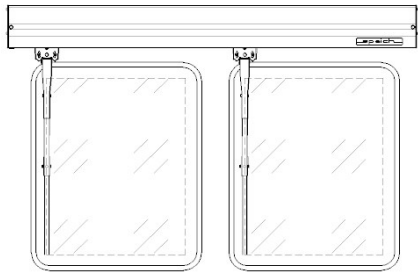
→ **FORM AND SIZE OF THE SCREEN**

Our team of design engineers will supply the best advice and assistance in order to achieve an **attractive design**, in line with the **elegance** and **aesthetic** specifications of the boat, greatly improved window clearing **efficiency** and the best **reliable** product.

Our systems are designed to meet all the necessary customer requirements

Straight line wiper systems

They are used for both flat and curved windows usually with wide base length when the highest cleaned area is a requirement. For wide windows, wipers with double arms are available.



Pantograph and pendulum wiper systems

They are used for both flat and curved windows usually with greater height than the base when installation space is limited. For wide windows, wipers with double arms or crossed areas are available.

Straight line wiper systems

- Perfect visibility even under the worst weather conditions because of a **high cleaned area** (up to 85%)
- Several **adjustment** to be made while installing in order to fit also to irregular windows
- **Reliability** to operate in extreme marine conditions
- **Large choice of systems configurations:** a complete offer of motor varying by tensions, torque and installation position (internal and external), as well as of different models and lengths of arms and blades, are available also for small installation compartments, and finishes
- Wipers and auxiliaries operate as **single units** or as **groups** and from different points (e.g. central and wing decks)
- On request, all systems can be fitted with **spray nozzles** or with **heated frame** and **double arm** for special requirements



Pantograph and pendulum wiper systems

- **High strength** and **corrosion resistance** for extreme marine conditions
- **Compact design** of the motor assembly for an easy installation
- **Large choice of systems configurations:** a complete offer of motor varying by tensions, torque and installation position (internal and external), as well as of different models and lengths of arms and blades, are available
- **Great flexibility** during installation
- On request, all systems can be fitted with **spray nozzles** or with **heated frame** and **double arm** for special requirements
- Complete solutions of windscreen **washer systems**
- Wipers and auxiliaries operate as **single units** or as **groups** and from different points (e.g. central and wing decks)

Production and testing

- Full quality control
- Flexible production
- Short lead-time
- Long term spare parts availability
- Low obsolescence risk

The **in-house production** of most components is part of SPEICH policy which provides several advantages:

- Full quality control manufacturing and control plans
- Very flexible production
- Short lead-time
- Long term spare parts availability
- Low obsolescence risk
- Tailor-made products and solutions

Each product project is validated after dedicated testing, in our test room or a third-party laboratory, and first article inspection.

Typical testing and compliance we achieve for our wiper systems are:

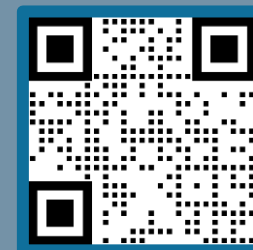
- EMC, Environmental conditions and Vibration to IEC 60945
- ISO17899 compliance for flagship products
- IP Degree of Protection
- Salt spray testing
- Endurance and performance testing
- Distance from the magnetic compass





International Sales Network

A complete list of our global service and distribution network is available on our web site:



www.speich.com

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