



KITE DRIVE FOR YACHTS



Powerful Propulsion



Automated &
Fully Integrated



Unrivalled Cruising
Comfort



Eco-Friendly



Range Extension



Reduced Fuel
Consumption



Increased Safety



High Visibility



POWERFUL, COMFORTABLE, INNOVATIVE: SKYSAILS' VISIONARY HYBRID DRIVE



Powerful Propulsion

The SkySails-Yacht-System (SKS-Y-System) is the **most powerful wind propulsion system** in the world. By means of dynamic flight maneuvers, e.g. the figure of "8", SkySails can generate up to **25 x more power** per square meter sail area than conventional sails. Thus already the smallest SKS-Y-System can substitute up to 250kW of main engine power with a kite of only 40m² in size in good wind conditions.



Range Extension

Running your main engine on 0 - 50% while being towed by the SkySails kite, gives your yacht unlimited range and the ability to wisely cross the 5 oceans without being docked on deck of an expensive freighter.



Automated & Fully Integrated

The SKS-Y-System can be operated from the bridge. Its automated control system performs the tasks of steering the towing kite and adjusting its flight path. All information on the operation status of the system is displayed in real-time on a monitor and easily accessible for the captain or kite pilot.



New Comfort in Yachting

Motor yachts provide spaciousness and speed while sailing yachts offer emission- and vibration-free enjoyment. Cruising at sea is significantly more comfortable on a sailing yacht, but this is achieved with a disturbing inclined position. The automated SKS-Y-System combines the advantages of both worlds effortlessly: On a motor yacht fitted with SkySails you can glide soundlessly and stable.



Reduced Fuel Consumption

Whilst using SkySails in good wind conditions the yacht's engines can run on 50% fuel consumption at same speed thus significantly reducing the fuel bill.



Eco-Friendly

The operation of super yachts becomes environmentally friendly with SkySails since fuel consumption and therefore emissions are considerably reduced. This also has a very positive effect on the public image of the owner.



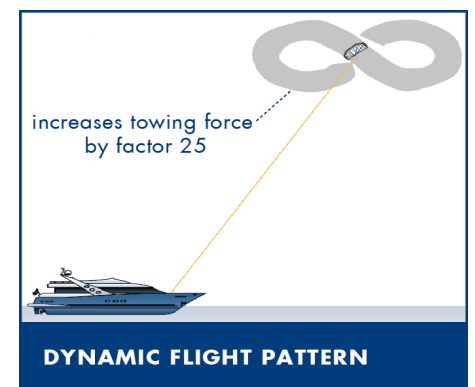
Increased Safety / Eye in the Sky

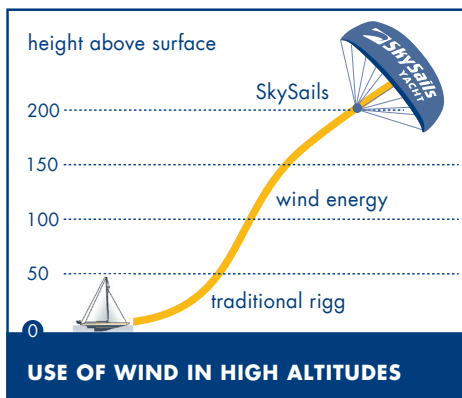
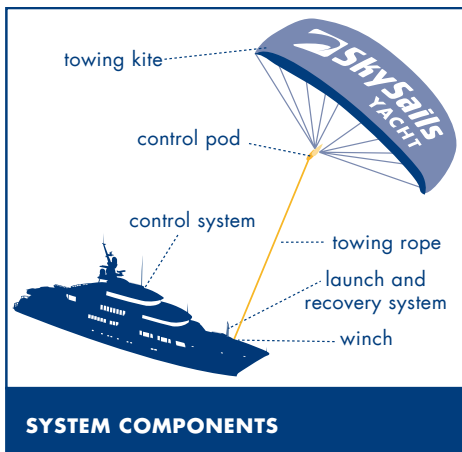
If fitted with a surveillance camera an area of 1.800nm² around the yacht can be observed, e.g. for anti-piracy missions. Additionally the kite can be used as emergency take-home device.



High Visibility

Due to its operation height of up to 300m the SKS-Y-System has an unrivalled visibility and attention, e.g. for promotion and marketing.





HOW IT WORKS

The SKS-Y-System consists of three main components:

- A towing kite with rope
- A launch and recovery system
- A control system for automatic operation

Instead of a traditional sail fitted to a mast, SkySails uses large towing kites for the propulsion of the ship. Their shape is comparable to that of a paraglider. The towing kite is made of high-strength and weatherproof textiles.

The tethered flying SkySails can operate at altitudes between 100 and 300m where stronger and more stable winds prevail. The tractive forces are transmitted to the ship via a highly tear-proof, synthetic rope.

The launch and recovery system manages the deployment and lowering of the kite and is installed on the foredeck. During launch a telescopic mast lifts the towing kite, which is reefed like an accordion, from its storage compartment. At sufficient height the towing kite unfurls to its full size and can be launched. A winch releases the towing rope until operating altitude has been reached. The recovery process is performed in reverse order.

The entire launch and recovery procedure takes approx. 10 - 20 mins. each.

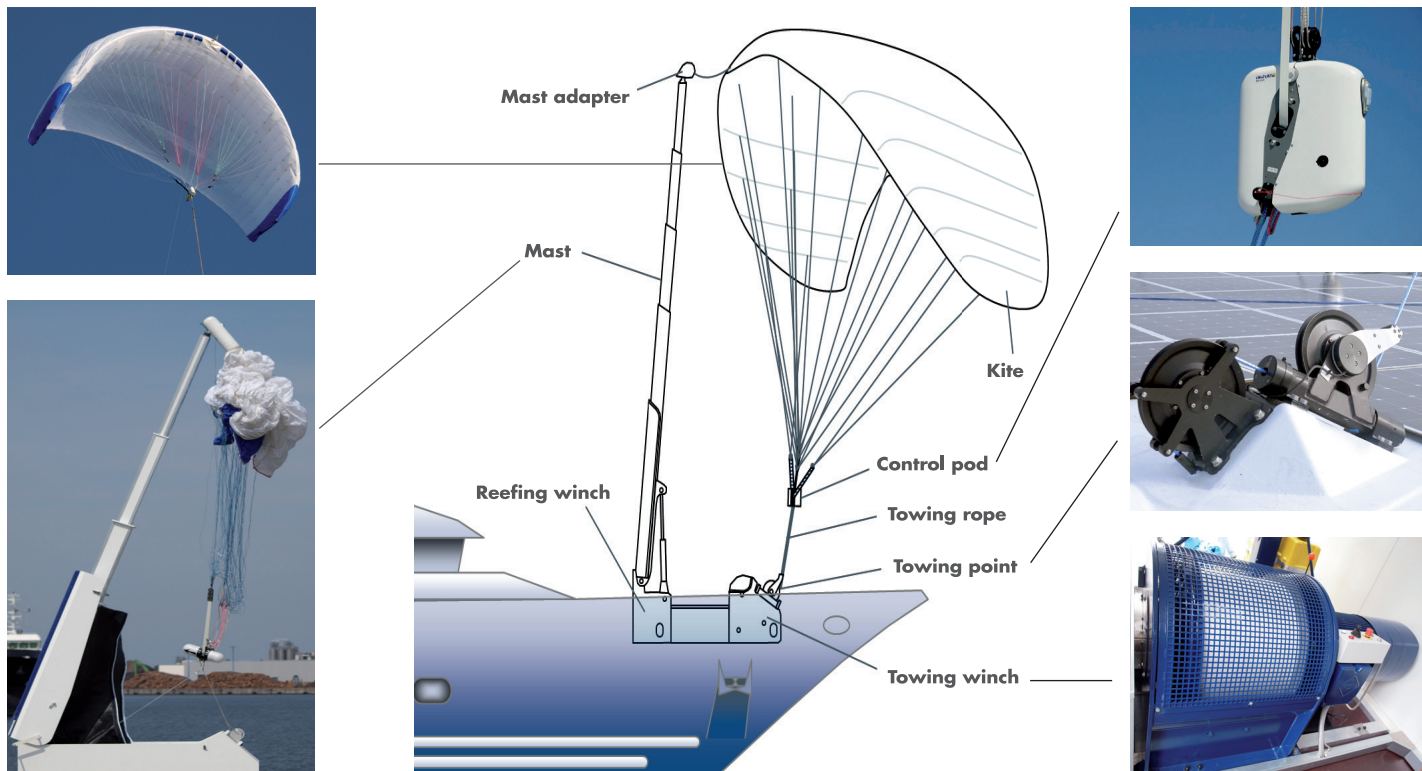


EXCLUSIVITY BASED ON ROBUST TECHNOLOGY

The SKS-Y-System was initially developed for deployment in the commercial shipping industry. The latest product generation features a 400m² fully automated kite capable of replacing up to 2MW of a vessel's main engine propulsion power. In order to meet the special demands of super yacht customers numerous customization options are available - for example logos and insignias can be printed on the towing kite and the start/landing mast can be adapted to the yacht's design.



SYSTEM OVERVIEW



PRODUCT SCOPE

		SKS Y 20	SKS Y 40	SKS Y 80	SKS Y 160
Main engine equivalent (approx.) depending on efficiency of propeller and main engine consumption	kW	50 - 100	100 - 200	500	1,000
Yacht dimensions (approx.)	length tonnage	25- 40m 12 - 50t	30 - 50m 50 - 100t	50 - 80m 100 - 800t	60 - 120m 500 - 4,000t
Fuel savings (approx.)	kg/hour	25	50	100	200
Design load	kN	20	40	80	160
Towing force (in ship's direction)	kN	10 - 14	20 - 28	40 - 56	80 - 112
Kite size	m ²	20 - 40	40 - 60	80	160

ABOUT SKYSAILS YACHT

- Established in 2017
- Market and technology leader in the field of automated towing kite systems for yachts
- Draws upon more than 15 years of experience of its mother company SkySails Group GmbH which is renowned for its innovative towing-kite wind propulsion system for cargo vessels
- Worldwide patented technology
- Strong international network of strategic partners

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