BARTECHNOLOGIES



BAR Americas Cup 2017



Dynamic Foils on Princess R35



BAR Tech 30 workboat with Foils



Surface to Wet Submarine



BARTech WindWings® 37.5m



BARTech WindWings® 20 & 24m



BARTech AeroBridge®



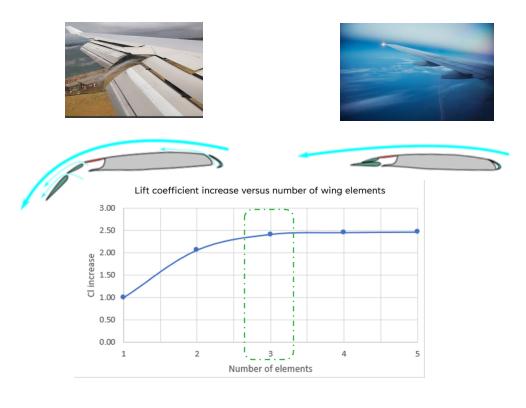
BARTech Spirit F35: Electric foiling launch

INSPIRED BY AEROSPACE:
THREE ELEMENT
HIGH LIFT
RIGID WING

2.5X THRUST OF SINGLE ELEMENT

WINDWINGS®
FULLY ADJUSTABLE CAMBER
& ANGLE OF ATTACK

MAXIMISE REAL WORLD PERFORMANCE





DESIGN PHILOSOPHY



THE WORLD'S MOST POWERFUL WIND ASSISTED PROPULSION SYSTEM

- Three element, rigid wing sail (global patent)
- Fully automated camber and alignment adjustment
- Fail-safe feathering and folding to deck
- Very low power consumption
- Principle dimensions

Model		37.5	24	20
Aerodynamic Span	m	37.5	24.0	20.0
Chord	m	20.0	10.0	10.0
Planform area	m²	750	240	200
Power system	-	Hydraulic	Electric	Electric

- Robust design, class approved
- Average daily savings of:
 - 37.5m: 1.5t fuel and 5t CO₂
 - 24m: 0.7t fuel and 2t CO₂



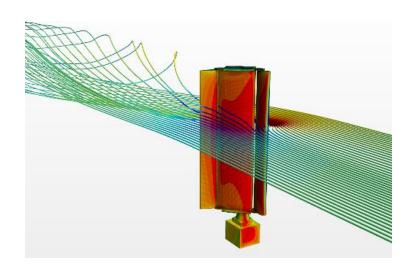






- Current Fleet 2 Retrofits and 1 New Build
- 22 Further vessels either contracted or firm agreements (with integration work already underway)

WindWings[®] PERFORMANCE GUARANTEE ✓



Thrust is generated by aerodynamic lift on the WindWings® and will be measured using strain-gauges mounted on the inside of the wing structure

Example Matrix of Guaranteed Thrust Values:

Thrust (kN)		True Wind Angle, TWA (Degrees, relative to vessel bow)						
		30	60	90	120	150		
True Wind Speed, TWS (knots)	10		X	X	X			
	15	X	×	×	X			
	20	×	×	×	×	×		
	25		×	×	×	Х		
	30			X	X	Х		

TWS & TWA measured 10m above sea surface

Thrust figures shown are for a single wing

Vessel speed is 14 knots

Vessel draft is 15 m

