

Challenge 72' Class Yachts

Summary Specification for Global Challenge 2004-05

Technical Specification

Length overall:.....	72q.....	22 metres
Length of waterline:.....	61q.....	18.82 metres
Beam:.....	18q2+.....	5.5 metres
Height of mast above waterline:	95q.....	29 metres
Draft full load:	10q.....	3.05 metres
Displacement - half load:.....		38 tonnes
Ballast keel weight:.....		10.3 tonnes
Sail area - windward:.....	2825 sq. ft.....	262.5 sq. metres
Sail area - downwind:.....	4020 sq. ft.....	373 sq. metres
Tank capacities:		
Water:	390 gals	1775 litres
Fuel:.....	475 gals	2150 litres

Builder

Devonport Yachts Ltd, Devonport Royal Dockyard, Plymouth
Kims Yacht Company, Xinhui, Peoples Republic of China

Design Team

Rob Humphreys of Rob Humphreys Yacht Design
Jim Moore of Jim Moore Designs
Roger Scammell of Key Designs
Andrew Roberts & Matthew Ratsey of Challenge Business
Devonport Yachts Ltd

Construction

Hull . 50A mild steel
Keel - Steel fin & lead bulb
Deck & Coamings - 316 stainless steel
Coachroof - GRP Balsa Sandwich

Safety Standards

The yachts are designed and fitted out to comply the MCA requirements for unlimited operations (worldwide in high latitudes)
Design approval Bureau Veritas
Certifying Authority . MECAL for MCA
Safety Standards compliance - MCA Cat 0 & Royal Ocean Racing Club, ORC Cat 0
Challenge Business policy for safety at sea
Challenge Business Quality Assurance Programme

Equipment Suppliers

Communications Equipment

Radio Communications Equipment

HF radio - 200 watt SSB.....	ICOM (UK) Ltd
VHF radio - 25 watt	Shipmate
GMDSS	ICS Electronics Ltd
Hand held VHF radios	ICOM (UK)Ltd

Satellite Communications Equipment

Imarsat Standard C	Thrane & Thrane
Imarsat Mini M.....	Thrane & Thrane

Deck Equipment

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Hatches & portholes	Lewmar Ltd & Nemo
Steering Gear	Edson USA, Simpson-Lawrence Ltd
Winches & Deck Equipment	Harken USA
Pulpit, pushpits, stanchions, handrails etc	Hercules CSMD of Dartmouth
<i>Custom Deck Equipment</i>	
Blocks, jammers etc	Designed by Roger Scammell, Manufactured by Hercules CSMD

Electrical

Power Management Systems	Energy Solutions Ltd
Batteries	Dynasty

Mechanical

Main Engine	Sabre Engines Ltd
Generator	Northern Lights, Sabre Engines Ltd
Engine & Generator Exhaust System	Halyard Marine Ltd
Watermaker	Aquafresh Ltd
Propeller	Bruntons Propellers Ltd
Accommodation Heater	Mikuni

Navigational Equipment

Wind data, water speed, depth	Brookes & Gatehouse Ltd
GPS	C A Clause Ltd
Radar	Raymarine

Paint, Protective Coatings & Fairing Materials.... International Paints Ltd & Awlgrip

Rig

Mast & spar maker	Atlantic Spars Ltd
Sailmaker	Hood Sailmakers Ltd
Rigging terminals	Norseman Gibb
Dyform standing rigging	Norseman Gibb
Running rigging	Liros supplied by Seago Yachting
Mainsail batten system	Bainbridge Aquabatten Ltd

Rudder & Keel

Rudder, Skeg & Keel Fin Fabrications	Hercules CSMD of Dartmouth
Lead Bulb Keel	Iron Brothers Ltd

Safety Equipment

Liferafts	Zodiac
Lifejackets/ harnesses	Ocean Safety Ltd
EPIRBS	Ocean Safety Ltd
Watertight Doors	Hercules CSMD of Dartmouth