



JPK 45



JPK COMPOSITES

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DESCRIPTION JPK 45 - 2021

TECHNICAL SPECIFICATIONS

Architect.....	Jacques Valer
Constructor.....	JPK Composites
Engineering.....	YOS
CE-Approval Category	A
Length overall LOA.....	13.80
Beam.....	4.50
Displacement.....	9.5 T
Draught fixed keel	2.20 m
Draught short fixed keel.....	1.90 m
Ballast	4 T

Sail dimensions:

Mainsail.....	53 m ²
Genoa	60 m ²
Gennaker.....	120 m ²
Maxi spinnaker.....	205 m ²

Tank capacity.....	320 litres
Fresh water capacity.....	2 x 400 litres

CONSTRUCTION:

- > 25 mm PVC foam sandwich / fibreglass-reinforced vinylester resin 'one shot' infusion procedure on skin and hull structure: Polyester Gelcoat 1st 'wet process' coating, high density vinylester foam on underwater body front of the keel. Quadriaxial fabrics 850 gr, unidirectional 600 gr layers applied in degressive lay-up in function of the stress and exposure areas
- > Uniform construction with very high quality absorption under impact
- > Option: 1st Kevlar skin
- > Structure: foam floor plating, unidirectional rods and biaxial fabrics
- > Deck: quadriaxial fabrics, PVC foam unidirectional, densified areas for deck fittings
- > Fore and aft watertight bulkheads
- > ISAF Certificate of construction

KEEL:

Keel:

- Cast iron fin with sole integrated into the hull to optimise stress distribution in the event of tailgating
- Keel fixed by 16 studs uniformly placed at the base of the floor plates

STEERING SYSTEMS:

- twin rudders under counter
- Stainless steel rudder axle with self-aligning needle roller bearings
- NACA airfoils moulded in fibreglass/vinylester
- Foaming epoxy casting resin
- Adjustment tie rod and elevated foot rudder (above water)
- 2 steering wheels with steering wires and JP3 system

DECK EQUIPMENT:

- 'Running riggings' hidden under fairing with return to cockpit console consisting of 4 winches
- 2 ST 46 winches (1 mainsail + down-haul sheet track, 1 piano) and 2 ST 50 (Genoa/gennaker sheet tracks)
- Piano = mainsail halyard, foot and reefing lines 1 2 3, genoa and staysail furler
- These winches are interchangeable with the jammers battery
- Mast: 1 ST 40 winch + jammers for genoa, staysail and gennaker halyards + topping lift boom and lazy bag
- Adjustable 'swallowing' rail and trolley for the genoa, piston for the staysail
- 8 ball bearing pulleys at the heel of mast
- **Option:** Electric winch

PORHOLE PANELS:

- 5 fixed windows in 15 mm plexiglass affixed to roof
- 1 front + 4 lateral windows
- 2 Lewmar deck panels, size 60 (forecabin and saloon)
- 2 Lewmar size 30 saloon
- 4 standard opening portholes in saloon and WC
- 4 standard portholes in aft cabins
- **Option:** 1 Lewmar size 60 saloon



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DECK:

- Bow, staysail and 10 mm shroud steel plates
- Chain locker grab rail
- Aft hatch with access to large storage locker at the rear of the cockpit
- 2 lockers: helmsman seating survival + gas
- 6 peripheral cleats, 1 aft skirt cleat
- Storage for 2 gas cylinders (13 kg)
- 1 composite cockpit table with teak drop leaves on stainless steel stand
- 2 bulkhead compasses

DECK AND RUNNING RIGGINGS:

- 1 SOROMAP aluminium mast with rail and trolley 2 levels from spreader
- 1 continuous dyform steel rigging fitted to skin
- 1 releasable lower stay for hoisted staysail (Option furler)
- 1 moveable runner and tackle unit for staysail
- 1 SOROMAP aluminium boom
- 1 mast step (mast on stanchion)
- 1 mainsail halyard with pulley block
- 1 genoa halyard
- 1 staysail halyard
- 1 topping lift (backup mainsail halyard)
- 1 gennaker halyard
- 1 genoa and staysail sheet track unit
- 1 mainsheet
- 1 boom foot + 3 reef lines.
- **Option:** carbon mast and boom

PROTECTION AND MOVEMENT:

- 2 grab rails the length of the roof
- 2 grab rails on the foredeck
- Reinforced pulpit, pushpit and steel stanchions.
- **Option:** Hard top or dog house with grab rail on each side and top with front opening

ANCHORAGE:

- 1 steel/composite bowsprit for anchorage and fastening the tack of the spinnaker/ gennaker.
- Anchor winch 12 v 1500 watt for 10 mm chain

DOG HOUSE:

- Version dog house (option): the roof is closed either

in 'rigid' sandwich panels and plexiglass + door or removable fabric with zip and rail

- In this case, curved and elevated lookout seats rest on the seating plates in front of the cockpit to ensure the watch regardless of port or starboard heel. The aft of the roof is also intended to be used as a chart table with inclined surfaces, sideboards and storage

MOTORIZATION:

- Volvo penta sail drive D2 50 cv engine (option 75) Sound insulation with absorbent foam and integrated mass.
- Access under the stairs of the companionway and laterally by means of two removable panels
- Aeration by flexible ducts. External engine control (starboard helm) revolution counter, alarms and start-up under dog house
- Three-blade propellor

ELECTRICITY:

- 1 engine alternator 12 V/105 Ah
- 2 batteries 140 A/H + 1 engine (traction batteries supporting strong discharges)
- 1 load balancer
- 1 battery charger 220/12v + shore connection
- 1 18 function switchboard + battery manager and water/fuel gauge

CLOSED WATER CIRCUIT AND PUMPS:

- 1 deck shower - aft cockpit
- Wastewater tank
- 3 12v bilge pumps - 1 portable + 1 manual pump
- Pressurised water unit
- 40 litre water heater (+ 220 v) with engine exchange

STANDARD INTERIOR LAYOUT:

- Plywood woodwork + bleached oak veneer
- A choice of upholstery, material and colours to choose from
- Version 3 cabins + storage airlock in front of saloon
- Lower section layout in infused moulded sandwich
- Upper sections and woodwork made of 13 mm plywood with teak or oak essence veneer (Option veneer)
- Composite backing moulds on ceilings to increase insulation and reduce condensation
- **Option:** PET foam insulation above the waterline and on the ceiling
- **Option:** Cabin with toilets and front bathroom



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CHART TABLE:

- At the foot of starboard companionway forward view and ergonomic seat
- **Option** dog house (closed version) with lookout seats and deck chart table

KITCHEN:

- Fixed hull porthole with sea view
- Lengthwise with 2 sinks
- Hot/cold mixer tap, foot operated sea water pressure pump
- 1 Eno oven + 2 hobs on gimbals with glass door, electronic ignition, wooden handle and security valve.
- Grab rail in front of oven door
- Stainless steel insulated refrigerator 80 mm volume 130 l/front opening
- 2 storage wall units + 2 lower storage units
- 1 LED light bar with dimmer under the catwalk + 2 spots
- 1 220V outlet

WC - SALOON

- 1 marin jabsco WC
- 1 sink with mixer tap and upper and lower storage cabinets with mirror
- 1 shower separated by a duckboard
- 1 ceiling light
- 1 oilskin wardrobe

SALOON

- 1 central couch above storage unit + folding table/storage space at the foot of the companionway
- Version lifting keel: couch rests on the keel housing and its mechanism
- 1 U-shaped couch with storage space
- 2 wall units
- 1 sandwich infused fixed table with bottle storage
- Large storage space under the seats in the saloon
- Large fixed hull porthole with sea view
- 4 ceiling spots + LED light bar with dimmer
- Water tanks positioned under the saloon's raised flooring
- **Option** : second bathroom in the front cabin

2 AFT CABINS

Symmetrical port and starboard or starboard cabins converted into equipment room

- Double bed with storage lockers
- Wardrobe and storage + seating. Small locker at foot of bed. 1 fixed hull porthole 2 dim night-lights and 1 ceiling light 1 12V socket
- 2 opening portholes - exterior and cockpit + blackout curtains

1 FORECABIN

- Double bed, lateral sideboards and storage lockers under the mattress
- 1 starboard storage cabinet + 1 wardrobe.
- 1 small locker at foot of bed
- 2 reading lights and 1 ceiling light 1 12V socket 2 fixed hull portholes. Black out curtains. Various layout options for the forepart with the option of a large master cabin with desk and shower/WC or gangway and double berths
- 1 size 60 opening hatch with integrated curtain

1 STORAGE AIRLOCK

- Located between the forecabin and the saloon
- Starboard - bench with shelving for repair work and storage of parts
- Port - shelving and large bosun's locker for supplies and miscellaneous equipment. Ventilation by large opening roof panel
- 2 ceiling spots

PRICE

€ 408 618 without tax