

SUMMARY OF THE MOST IMPORTANT TECHNICAL SPECIFICATIONS OF THE ELAN 31

LENGTH OVERALL	9,40 m
HULL LENGTH	9,20 m
LENGTH AT WATERLINE	8,21 m
BEAM	3,20 m
DRAFT	1,85 m / 1,50 m
BALLAST	1300 kg / 1430 kg
WEIGHT	4500 kg
ENGINE	19 HP
WATER CAPACITY	140 l
FUEL CAPACITY	44 l
MAINSAIL	26,50 m ²
GENOA	28,00 m ²
SPINNAKER	75 m ²
I	11,74 m
J	3,28 m
P	11,46 m
E	4,28 m
BOAT DESIGN CATEGORY CE	B

DESIGN: ROB HUMPHREYS YACHT DESIGN

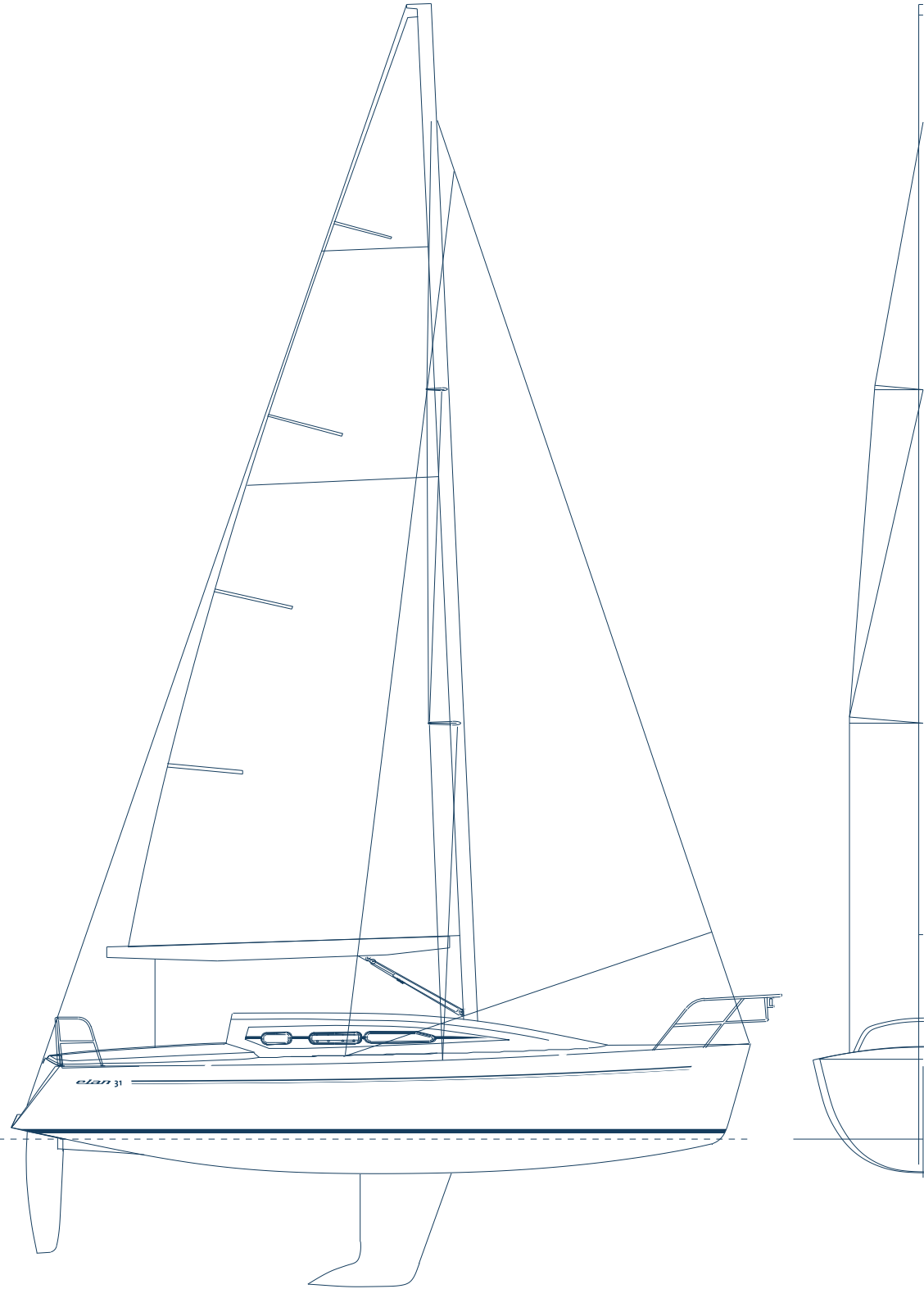
ELAN BOATS ARE BUILT UNDER PERMANENT TECHNICAL SUPERVISION OF

GERMANISCHER LLOYD

The illustrated yacht was equiped with several extras. The standard delivery is according to our standard specifications. All weights and measures have been calculated on the basis of construction documents.

Graphic and textual descriptions are in accordance with present development status and without engagement for the future standard version.

DESIGN: STUDIO 37



ELAN 31 - TECHNICAL SPECIFICATION

CONSTRUCTION

HULL:
The hull is a vacuum infused multi-axial laminate. All layers are laminated with isophthalic polyester resin for osmosis protection.

DECK:
The deck is a vacuum infused multi-axial laminate, partly polyester - PVC sandwich construction for thermo and sound isolation.

HULL TO DECK JOINT:
The deck is glued and bolted to the flange on the hull.

KEEL:
The 1300 kilograms keel is made of cast iron (standard draft is 1.85m). A 1.85m lead keel is optional.

RUDDER:
The balanced rudder is a fiberglass reinforced polyester laminate with rudder stock and internal grid, both constructed in stainless steel.

CE - CERTIFICATION

The E31 has been built in accordance with the European CE - certification and meets the requirements of the CE - directive 94\25\CE for recreational crafts. These rules require a certain standard of hull and deck strength, structural bulkheads and stringer, keel and rudder and their attachment to the hull, safety and stability, engine and gas installation, seacocks, manuals and documentation of all major installations. The CE class B certificate was issued by Germanischer Lloyd.

DECK EQUIPMENT

Stainless steel steamhead fitting with roller.
Self bailing anchor locker with closing facility.
Stainless steel forward pulpit.
Stainless steel aft pushpits with flagpole holder.
Stainless steel stanchions.
2 rows of sheated stainless steel cable lifelines with turnbuckles.
4 mooring cleats.
Toe rail for protection and reinforcement for hull to deck joint.
2 stainless steel grabrails on coachroof.
2x deck organisers.
2x rope clutches.
2 winches on coachroof.
2 genoa sheet winches.
2 genoa sheet tracks with adjustable ball bearing genoa cars, adjustable from cockpit also under tension.
Mainsheet traveller track adjustable from cockpit.
Engine control lever and dashboard.
Teak laid cockpit seats.
1 winch handle bin.
1 cockpit locker.
1 gas bottle locker under cockpit seat, draining outboard.
Stainless steel bathing ladder.
Tiller with extension.
Compass on instrument console above sliding door.

MAST \ STANDING RIGGING

Fractional rig.
Silver anodized aluminium keel stepped mast.
Silver anodized aluminium single line reefing boom.
Mast step fitting with blocks.
Stainless steel standing rigging.
Rigid boom vang with gas spring.
2 sets of aft swept airfoil tapered spreaders.

RUNNING RIGGING

All halyards and tensioners running to cockpit.
All halyards and the plastic reinforced electrical cable are running inside mast.
1 jib halyard.
1 main halyard.
2 genoa sheets.
1 main sheet.
1 outhaul for the main.
1 spi halyard.
2 main sheet traveler car adjusting lines.
2 genoa sheet car adjusting lines.
2 reefing lines - outhaul lead back to cockpit.
1 spi - pole uphaul.

INTERIOR LAYOUT

FORWARD CABIN:
Headroom 1600mm.
1 double berth 2200mm x 1750\220mm with 120mm high density foam mattress.
2 large lateral stowage shelves.
3 storages under berth with side access.
1 reading light with switch.
1 overhead light with switch.
1 deck escape hatch.

AFT CABIN:
Headroom 1760mm.
1 double berth 2000mm x 1500\950mm with 120mm high density foam mattress.
1 locker.
1 lateral storage shelfe.
1 reading spot light with switch.
1 overhead light with switch.
1 opening cockpit portlight with curtain.
1 opening deck portlight with curtain.
Access to engine room.

HEAD \ BATHROOM:
Headroom 1760mm.
Marine toilet secured with easy accessible inlet and outlet seacocks.
Washbasin with pressurized tap.
Stowage locker under the sink with access to seacocks.
1 hand bilge pump for shower bilge.
Wet locker with drainage to shower bilge.
1 mirror.
1 overhead light.
1 opening deck portlight with curtain.
Access to engine room.

SALOON:
Headroom 1810mm.
Ergonomically shaped settees with cushions and backrests along the hull with stowage lockers behind and underneath.
Water tanks (2 x 70 liters) under seats to port and starboard.
Folding saloon table.
2 fixed deck portlights with curtain.
1 large deck hatch in the middle of saloon.
Locker and shelve along the hull on both sides.
3 halogen overhead lights with switch.
Access to engine room.

GALLEY:
L - shaped galley.
Gimbaled 2 - ring cooker and oven with safety rail.
Double sink.
Well insulated cool box (55 liters).
Tap with pressurized water system.
Lockers and cupboards along the hull.
Stowage locker under the sink.
1 opening deck portlight with curtain.
1 halogen overhead light with switch.
2 halogen lights with switch over the worktop.

NAVIGATION STATION:
Chart table 800 x 550mm.
Adjustable reading spotlight.
Panel for navigation instruments with voltmeter for batteries, fresh water and fuel level indicator.
1 opening deck portlight with curtain.
Bookshelf, locker and drawer.
Navigators seat with stowage compartment underneath.
Partition between saloon and chart table for installation of navigation instruments.

WATER SYSTEM

Central electric bilge pump with automatic float switch.
Hand operated bilge pump in cockpit with strainer in bilge.
2 fresh water tanks (2 x 70 liters).
Electric fresh water pump.

ENGINE EQUIPMENT

Diesel engine 19 HP fitted with sail drive.
Fuel tank of 44 liters (in aft cabin).
Fuel filter with water separator.
Sea water filter.
Engine room is sound proofed and insulated with special foam to CE standard.
Engine compartment ventilation via 2 ventilators.
Fixed propeller.
Excellent all round accessibility to engine.
Engine mounted on foundation, built into the inner moulding.
Engine alternator 60A.
Engine hour counter.

ELECTRICAL SYSTEM

12V circuit.
Two separate batteries (one 60 Ah for main engine start and one 100 Ah users battery).
2 separate main switches and blocking diode.
All circuit are protected with individual magnetic circuit breakers.
Navigation lights: bi-color on pulpit, stern on pushpit, steaming, anchor, flood and compass illumination.
12V plug on the instrument panel.

GAS SYSTEM

3 kg butane - propane gas bottle.
30 mbar pressure - relief valve with shut-off switch.
Gas installation using 8 mm copper tubes.

MISCELLANEOUS

2 winch handles.
Owner's manual.
2 fire extinguishers.