Greenline 45 Fly (2020-)

Brief Summary

Greenline is generally recognized for being able to produce effective hybrid-electric propulsion throughout its lineup. However, the Greenline 45 Fly that BoatTEST.com tested was powered by twin Yanmar 370-horsepower diesels with V-drives and shafts. The focus on this model is voyaging and entertaining in luxury, comfort, and bringing the daylight into the interior with generous views of the natural environment.

Price

Base Price

Prices, features, designs, and equipment are subject to change. Please see your local dealer or visit the builder's website for the latest information available on this boat model.

Key Features

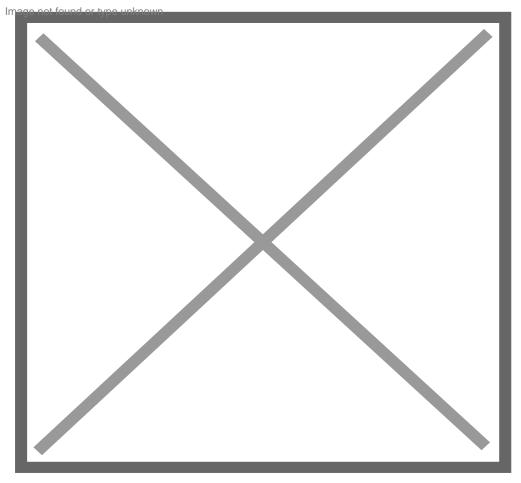
- Large flybridge deck with many luxury features and options
- Full galley with home-like appliances
- Full-beam master stateroom with centerline, king-sized berth with en-suite master head with separate shower
- Forward VIP stateroom with private access to share head with separate shower
- Optional guest cabin in lieu of master and VIP stateroom walk-in closets.
- Large windows in salon and galley
- Large hull-side windows in master stateroom
- Forward bulwark cut-outs to provide views from cabin-trunk windows in VIP stateroom.

Test Results

RPM	МРН	Knots	GPH	MPG	NMPG	STAT. MILE	NM	dBa
550	3.3	2.9	0.5	6.9	6	2475	2152.2	54
1000	6.1	5.3	1.1	5.4	4.7	1926	1675.1	54
1250	7.3	6.3	2	3.6	3.1	1286	1118	55

RPM	MPH	Knots	GPH	MPG	NMPG	STAT. MILE	NM	dBa
1500	8.4	7.3	3.3	2.5	2.2	899	781.4	55
1750	9.7	8.4	5	2	1.7	705	612.8	62
2000	11	9.5	13.1	0.8	0.7	302	262.3	63
2200	11.4	9.9	11.3	1	0.9	361	313.6	63
2400	12.2	10.6	14.2	0.9	0.7	307	267	64
2600	14.4	12.5	17	0.8	0.7	304	263.9	64
2800	16.6	14.4	19.9	0.8	0.7	300	260.6	70
3000	18.9	16.4	23.2	0.8	0.7	293	254.5	68
3200	21.3	18.5	27	0.8	0.7	283	246.1	70
3400	23	20	31.8	0.7	0.6	260	225.9	69
3600	25.2	21.9	34.8	0.7	0.6	260	226.4	74
3750	26.4	23	38.6	0.7	0.6	246	214.3	74

View the test results in metric units



Specifications

Length Overall	51' 1" 15.57 m
BEAM	14' 11'' 4.55 m
Dry Weight	29,762 lbs. 13,500 kg
Tested Weight	31,752 lbs. 14,402 kg
Draft	
Draft Up	
Draft Down	

Air Draft	
Deadrise/Transom	
Max Headroom	
Bridge Clearance	19' 2'' 5.84 m
Weight Capacity	
Person Capacity	
Fuel Capacity	400 gal. 1,514 L
Water Capacity	176 gal. 666 L
Length on Trailer	
Height on Trailer	
Trailer Weight	
Total Weight	31,752 lbs. 14,402 kg
Aft Deck	
Salon Inside Width	
Salon Fore & Aft	
Salon Height	
Salon Volume	

Galley Volume	
Master SR Width	
Master SR fore & Aft	
Master SR Overhead	
Master SR Volume	
Eng. Room Volume	

Acceleration Times & Conditions

Time to Plane	7.2 sec.
0 to 20	
Ratio	N/A
Props	N/A
Load	4 persons, 1/2 fuel, no water, 50 lbs. of gear
Climate	68 deg., 43 humid; wind: 0-0 mph; seas: 0

Captain's Report by Capt. Mark Kellum

Greenline 45 type unknown

The first impression of the Greenline 45 Fly is a conventional flybridge yacht. However, Greenline's approach to sustainable yachting creates several functional and design innovations.

The latest model for Greenline, the 45 Fly has a large Bimini over the flybridge and a second Bimini over the forward sun pad. An optional T-top adds additional solar panels.

Mission

The Greenline 45 Fly was designed, engineered, and built to provide a sustainable yachting experience with full featured interior spaces for luxurious comfort. Large windows in the salon and galley along with hull side windows and cutouts in the forward bulwark make the interior bright and airy. The flybridge deck is designed for entertaining and provides overhead protection for the aft deck. Overall, the Greenline 45 Fly is devised for extended voyaging and entertaining in style.

Starboard side cruising

The test Greenline 45 Fly was equipped with twin 370-horsepower Yanmar diesels with V-drives.

Distinguishing Features

- Two 300-amp solar panels molded into the coach roof that supply power to the battery banks. The solar power management system and 3-kilowatt inverter help eliminate frequent need of shorepower.
- Standard, the Greenline 45 Fly has a walk-in master stateroom and VIP stateroom closets with vanities, hanging lockers, and shelves. The test boat had the guest cabin option that replaces both walk-in closets.

Major Features

- Hydraulically-Actuated Swim Platform. The swim platform lowers for water access.
- Full-Beam Master Stateroom. The full-beam master stateroom has large hull side windows with opening portlights and a private en-suite head with separate shower.
- VIP Forward Stateroom. The forward VIP stateroom has a centerline berth and private access to the day-head with separate shower.
- Standard Sized Mattress Berths. The mattresses in the master stateroom are standard kingsized and the VIP stateroom offers a standard queen-sized mattress that allows the owner to use standard fitting sheets and bedding.
- **Full Galley.** The galley is equipped with home-like appliances including a full-size refrigerator/freezer, a conventional oven with microwave and convection, and an induction cooktop.
- **Toy Storage.** Under the aft deck is space for toy storage accessed through the aft deck transom bench seating. Optionally, the transom can open for additional access.
- Forward Sun Pad. The forward sun pad has a Bimini top and can convert to side-by-side lounge seating.
- Large Flybridge Deck. L-shaped bench seating aft complements the sun pad alongside the port side upper helm.

Uppert level ayoutknown

The design of the Greenline 45 Fly places the upper helm on the port side just forward of the stairs from the aft deck. Maindeck dayout unknown

The main deck on the Greenline 45 Fly has the galley between the aft deck and the salon. This makes entertaining both inside and out easier. Stateroom layout Inknown

The configuration for the Greenline 45 Fly has walk-in closets for both the master and VIP staterooms and private en-suite head with separate showers.

This optional configuration moves the VIP stateroom door forward, allowing access to the forward head from the lower companionway. Berthingulayoute unknown

The third configuration eliminates the walk-in closets to make a third cabin with either upper and lower single berths or a single double berth (the test boats configuration).

Design

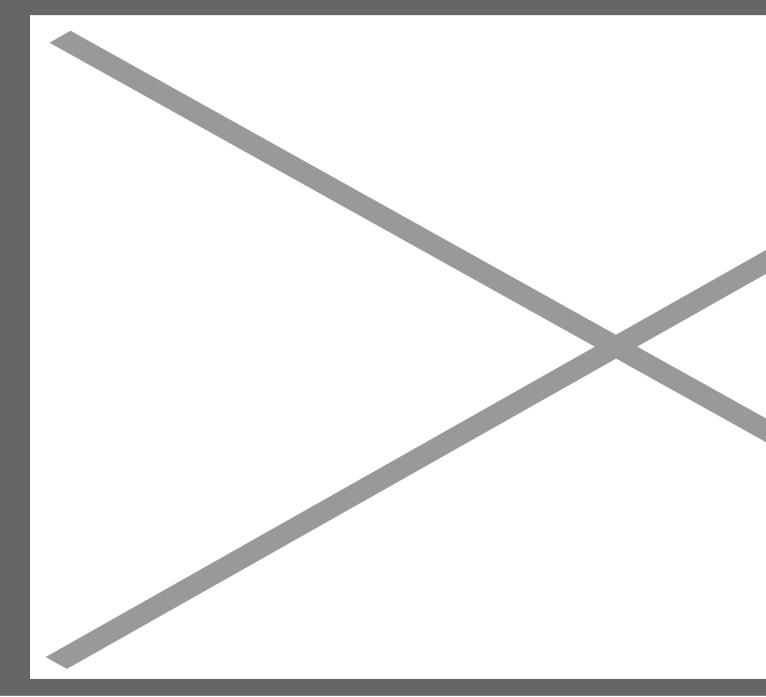
Binninit topd or type unknown

With both Bimini tops lowered, the Greenline 45 Fly takes on a sleeker look.

Optional Propulsion. The Greenline 45 Fly is available with twin 320-horsepower Yanmar diesels, twin 370-horsepower Yanmar diesels, twin Volvo Penta IPS500 diesels, twin Volvo Penta IPS600 diesels, hybrid propulsion with twin 200-horsepower Volvo Penta D3 diesels or fully electric propulsion with twin 100-kilowatt inboard Torqeedo electric drives.

Two Separate Hull Designs. To efficiently and properly support the various propulsion systems performance, Greenline designed two separate hull configurations. A tunnel design that accommodates the shaft driven props and a non-tunnel drive that accommodates the Volvo Penta IPS drives.

Performance



The Greenline 45 Fly that was tested featured dual Yanmar 370-horsepower diesels with V-drives and the Greenline 45 Fly prop-tunnel hull design.

The Greenline 45 Fly has a length overall of 51'1" (15.57 m) and a beam of 14'11" (4.55 m). With a dry weight of 29,762 lbs. (13,500 kg)), half the fuel capacity, and four people onboard, we had an estimated test weight of 31,752 lbs. (14,402 kg).

Top Speed. With the dual 370-horsepower Yanmar diesels with V-drives run up to 3750 rpm, the Greenline 45 Fly reached a top speed of 23-knots. With a total of 740-horsepower, Greenline is not going for high-speeds with this setup. They are going for cruising comfort.

Best Cruise. Running at 3200 rpm and 18.5-knots the test Greenline 45 Fly has a range of 245.1 nautical miles. This seems to be where the test boat felt most comfortable. To cover more distance, running at 2200 rpm and just under 10-knots stretches the range. At this speed, the 11.3 gph fuel burn provides 0.9 nautical miles per gallon and a range of 313.6 nautical miles. Running the Greenline at 1250 rpm and 6.3-knots the range is a respectable 1118.0 nautical miles.

Image notiound or type unknown	

0 to Plane. The test Greenline 45 Fly reached planning speed in 7.2 seconds. **0 to 20 MPH.** The test Greenline 45 Fly reached 20 mph in an average of 11.3 seconds.

Handling

Galmtestconditions

At 23-knots, the Greenline 45 Fly's top speed in calm test conditions, she rode solid as any boat in her class would.

A lot of the Greenline 45 Fly's driving comfort comes from the responsiveness of the helm. At cruise speeds it is even more pronounced, due to more wash against the rudders. The Greenline demonstrated a gentle 9-degree roll into the turns, ensuring nothing will get tossed around.

Side choiound or type unknown

The test captain on the Greenline 45 Fly found the frame for the side door to be a bit too-low. However, the convenience outweighed the distraction.

Close-in Maneuvering. In low-speed, close-in maneuvering, the Greenline 45 Fly performed as expected for a well-handled yacht. The test captain found that whatever maneuvering was needed the Greenline 45 Fly was able to respond perfectly.

Boat Inspection

Exhibiting clean shearline and roofline the Greenline 45 Fly has a stylish feel that seems undated.

Stern

The swim platform is the most common way to board a boat of this style. The Greenline 45 Fly has two stairways from the swim platform to the aft deck on the port and starboard side. The transom in between can be optionally equipped to open. There is also an option for a grill, sink, and prep area mounted on the transom. The test boat had the standard, non-opening transom.

Swimoplationnpe unknown

The swim platform on the Greenline 45 Fly measures 4'4" (1.32 m) deep by 10'9" (3.28 m) across.

The swim platform on the Greenline 45 Fly is hydraulically-actuated and lowers for water access and tender retrieval when so equipped. Reboardin laddemknown

On the starboard side of the platform is a stainless-steel reboarding ladder mounted on the underside. A stainless-steel grab handle mounted just above helps facilitate reboarding. Mounted ladder unknown

Greenline offers a more elegant stainless-steel and teak reboarding ladder that can be mounted on the swim platform. Shore power connection

Shore-power connection is mounted in the riser of the steps leading to the aft deck. The step flips up for convenience. Note the large 12" (30.48 cm) cleat.

The Greenline 45 Fly has a passerelle that automatically extends from the port side stairway to the aft deck. Molded wing step known

Greenline designed in a molded-on wing-step on the 45 Fly to facilitate ease of debarking or embarking.

Aft Deck

At the top of the steps leading to the aft deck, there are stainless steel framed safety doors. Across the stern is bench seating aft of a solid-wood table mounted on twin pedestals. With the galley located directly forward of the aft deck inside a glass partition which has an opening window and a flip out counter, there is no-need to have a wet bar on the aft deck.

After the und or type unknown

The safety gates have the iconic Greenline dolphins' cut-outs. The bench seat is 7' (2.13 m) wide. The table has a center insert that flips over to reveal six drink holders.

The flybridge deck on the Greenline 45 Fly forms a hardtop 6'9" (2.06 m) above the deck with inset lighting and stereo speakers. Stainless steep gateown

On both aft quarters of the aft deck are heavy-duty, double horned, stainless-steel, bollard-style cleats along with heavy-duty, stainless-steel fairleads. Built into the forward panel is the emergency manual bilge pump operating handle.

Access to the mechanical space on the Greenline 45 Fly is through a hatch built into the aft deck. Bench seat storage own

A hatch under the aft bench seat provides access to the water toys storage below. Reflective partition nown

The reflective glass partition that separates the aft deck from the galley provides a modicum of privacy during the day.

There is a bifold glass door to port and a 44" (111.76 cm) wide by 33" (83.82 cm) window that opens easily with a gas-assist strut. The counter folds out to form a convenient aft deck bar.

Galley

The galley is strategically located between the aft deck and the salon allowing it to serve two of the main gathering areas. The headroom is 6'7" (2.01 m) with the prep and cooking areas to starboard and the refrigeration and some of the storage on the port side. Traffic fore and aft flows through the middle.

Singk not found or type unknown

Built into the Kerrock solid surface countertop is a deep sink with stainless-steel faucet.

There is a two-burner cooktop built into the countertop. Note there are fiddles all around the counter to keep things in place.

Below the cooktop is a built-in microwave and convection oven.

Gabinetostorage unknown

Above the counter, on the starboard side, is cabinet-style storage and shelving. Refrigerator type unknown

Across from the counter on the port side is a full-size refrigerator/freezer with a coffee maker built into the storage just aft.

Forward of the refrigerator/freezer is the electrical panel. Greenline offers an optional wine cooler that can be built into the seat base.

Salon

There is a 10" (25.34 cm) step up from the galley to the salon. The interior of the Greenline 45 Fly was designed by superyacht designer Marco Cassali. The entire interior is filled by natural light from the large side windows. Greenline gives owners the choice of curtains, shades or wood blinds.

Berrcht seatingpe unknown

On the starboard side is bench seating with an L-shaped sofa and a natural wood table on the port side. The table can be mounted on an optional high/low base.

Built into the bench seating on the port side is a 43" (81.28 cm) television that with the touch of a button, lifts out of the bench allowing for storage below. Salenpdinettetype unknown

Just forward of the salon dinette area is a high bench seat that provides a unique vantage. Chartostorageype unknown

Forward of the high bench seat is storage convenient for charts and incidentals.

Lower Helm

The lower helm was designed with the operator in mind. Situated on the starboard side with a door leading to the starboard side deck, the operator can stand outside and to gain a better perspective when close-in maneuvering.

net mot found or type unknown

The helm dash measures 3'1" (0.94 m) wide by 11.5" (29.21 cm) high panel. The test boat had a single 12" (30.48 cm) multifunction display. The panel could support at least one more display. The VHF radio is mounted on the inboard side with a separate speaker. Immediately to port of the fixed mount steering wheel

Below the autopilot and drink holders are bilge alarms and electrical switching on both sides of the wheel, close to the knee strike zone.

Imagetties und or type unknown

On the starboard side are the engine displays and the engine start/stops. Further aft is the bow and stern thruster controls, trim tabs with indicator and engine control binnacle. Windshield or type unknown

The single pane windshield is 9'3" (2.82 m) wide by 3'8" (1.12 m) high. Note the red light above the helm which is used to preserve night vision when operating after dark. Double wide helm seat

The double wide helm seat has a single bolster for stand-up operation. From the standing position the headroom is 5'8" (1.73 m) and the maximum eye height is no more than 5' (1.52 m).

Side Decks

The side decks are asymmetrical with the port side deck slightly larger, 15" (38.1 cm) wide and the starboard side deck 14" (35.56 cm) wide. The starboard side has a boarding door and a helm door.

Bulwarlograbtyrailsknown

The bulwark grab rail rises 30" (76.2 cm) above the deck with an 19" (48.26) wide hardtop 6'9" (2.03 m) overhead.

Boandingudoonpe unknown

The boarding door opens into a molded-in recess and has a magnetic latch to keep it open. The two steps leading to the foredeck have 7" (17.78 cm) risers.

Access to the Greenline 45 Fly's lower helm from the side deck is through a sliding glass door that measures 4'1" (1.24 m) high by 18" (45.72 cm) wide.

Foredeck

Another social entertaining area is on the foredeck with a large sun pad with a Bimini top. The sun pad converts to side by side lounge seating. The forward bulwark rises 14" (35.56 cm) above the deck with the grab rails 27" (68.6 cm) above the deck.

Serepaidound or type unknown

The sun pad on the foredeck cabin trunk is 68" (172.7 cm) wide by 71" (180.3) long. Note the built-in drink holders.

pope up fglowr lightsknown

There are pop-up glow lights on the port and starboard sides of the cabin trunk for relaxing at night.

There are windows to the forward VIP stateroom built into the vertical base of the cabin trunk that provide light and views from the stateroom. Ground tackle dockerwo

Shown is the ground tackle locker with the all chain rode and the windlass feeding the bow roller. There is a chain stop and the remote windlass remote is mounted on the locker hatch. Anchorfound or type unknown

The Delta anchor is designed as a through the stem system with a stainless-steel guard on the bow. Note the 12" (30.48 cm) cleat on the cap rail.

Flybridge

The flybridge deck is designed as a highly social area for entertaining. The helm is port mounted in forward of the stairs coming from the aft deck. Aft is an L-shaped bench seat that wraps to the starboard side and surrounds a solid-wood table. The test boat has the summer kitchen on the starboard side. Forward on the starboard side is an 8' (2.44 m) by 5'5" (1.65 m) sun pad.

Social flyndridge unknown

The Greenline 45 Fly lives up to its name with a large, highly social flybridge deck. **Biggininittop**d or type unknown

The large Bimini top provides shade in the daytime and has strip lighting built in for nighttime entertaining. Aftedeckutableype unknown

The aft bench seating wraps to starboard surrounding the solid wood table. The port side of the table flips up to provide egress to the seating. The insert in the table flips over to reveal six drink holders.

Moving forward on the starboard side is an optional summer kitchen which includes a sink, electric grill, stainless-steel grab rail with storage and a refrigerator below. Starboard sumpad

Continuing forward on the starboard side a large sun pad.

Mounted to port is the upper helm station with a similar dash as the lower helm featuring a single 12" (30.48 cm) multifunction display and could support an additional display. The steering wheel at the upper helm is mounted on a tilt base.

On the outboard side of the helm is the VHF remote, trim tab controls with indicators, the autopilot, thruster controls, stereo remote, and system switches. Engine monitoredisplay

To starboard are the engine monitor displays, engine start/stops, and engine control binnacle.

The double wide upper helm seating on the Greenline 45 Fly is on a fixed base.

VIP Stateroom

The raised cabin trunk has large windows that allow natural light to brighten the space while providing a view through the forward bulwark cut-outs. The centerline berth has a standard queen-sized mattress which allows owners to purchase standard queen-sized sheets and bedding.

Mestateroompe unknown

The VIP stateroom on the Greenline 45 Fly has 6'7" (2.01 m) headroom with a centerline double berth measuring 63" (160.02 cm) wide by 75" (190.05 cm) long. Leather wrapped night stands, sconce lighting and goose neck reading lights are on each side of the berth.

The large windows in the cabin trunk risers not only provide natural light to enter the cabin, they also provide an excellent view through the forward bulwark cut-outs.

Below the cabin trunk windows are opening hull-side portlights, two on the port side and two on the starboard side that provide ventilation. Note the credenza-style storage below the portlights. Gredenza-style-storage

The credenza-style storage and opening portlights are repeated on the starboard side of the VIP stateroom. Escape hatchype unknown

A hatch in the ceiling of the VIP stateroom under the forward sun pad offers a second escape route and additional lighting when the sun pad is removed.

Guest Head

There are several options for the forward guest head. In the Greenline 45 Fly with the two-stateroom layout, the guest head can be configured as a dedicated en-suite head for the VIP stateroom or a day head with a private VIP entry. The test boat was configured with the three-stateroom layout with the forward head a combination guest head with a private entry for the VIP stateroom and a day head.

Guest thead or type unknown

The guest head has a vessel sink with stainless-steel faucet and solid-surface countertop, shelf and mirror above. Teak decking and a separated shower stall with shower wand.

Guest Stateroom

Owners can option for a third stateroom by eliminating the walk-in closets in both the forward VIP stateroom and the master stateroom. The test boat had this optional layout.

Guestistateroomunknown

On the test boat entering from the starboard side of the lower companionway is a guest stateroom with a single double berth with storage forward. The berth measures 51" (129.5 cm) wide by 80" (203.2 cm) and a headroom of 80" (203.2 cm).

Master Stateroom

The full-beam master stateroom on the Greenline 45 Fly has a centerline berth with a standard king-sized mattress that owners can fit with standard king-sized sheets and bedding. The headroom varies from 7'1" (2.16 m) at the entry, 6' (1.83 m) above the deck forward of the berth, 6'7" (2.01 m) headroom above the 6" (15.24 cm) step-up on each side of the berth and 3'4" (1.02 m) headroom above the berth.

King sized mattressown

The regular centerlined king-sized mattress measures 72" (182.9 cm) wide by 80" (203 cm) long. Note the leather wrapped nightstands, sconce lights and goosenecked reading lights on both sides of the berth and mirrored headboard.

hounge seating unknown

There is lounge seating under the large hull-side window on the port side. There is an opening portlight forward in the hull side window.

Forward of the port side lounge seating is a storage cabinet with shelving. Master stateroom storage

The starboard side of the master stateroom has a credenza-style cabinet under the large port side window with opening portlight and hanging locker forward.

Mechanical Space

There is a hatch in the aft deck that leads to the mechanical space. Below are the dual 370-horsepower Yanmar diesels turning V-drive transmissions on the test boat. Greenline is known for efficient power and the 45 Fly has 600-amps of battery power standard which equates to 7.2 kilowatt hours of power.

Solan manals type unknown

The Greenline 45 Fly has two 300-amp (600-amp total) solar panels standard molded in recess on the coach hardtop. Note the drainage channels. These run through the solar management system to a 3-kilowatt inverter which can run the boats systems on the batteries alone.

Located forward is the Onan 11-kilowatt diesel generator. Note the bulkhead mounted fire suppression system.

Generatordfuelptankswn

On both the port and starboard sides of the generator are a pair of 200-gallon (757 L) fuel tanks with fuel filters for a total capacity of 400-gallons (1,514 L) of fuel. Water heater tank known

On the port side is the 21-gallon (79 L) water heater with the expansion tank and water pump mounted above. Note the Yanmar diesel exhaust in the foreground.

Aft is the hydraulic steering rams. Note the battery banks mounted port and starboard.

Mounted on the starboard side is the 3-kilowatt inverter, two galvanic isolators, and the solar management system. Note the second Yanmar diesel exhaust in the foreground.

The test boat was powered by twin Yanmar 370-horsepower diesels with V-drives. The Greenline 45 Fly can be configured with an H-Drive that runs on batteries alone and has a cruise speed of 6-knots.

Options to Consider

- Third cabin in lieu of walk-in closets in both the VIP stateroom and master stateroom
- Flybridge hardtop with third 300-amp solar panel

Propulsion Options

The test boat Greenline 45 Fly came with dual Yanmar 370-horsepower diesel engines with V-drives and the prop-tunnel hull. Propulsion options include:

- Dual Yanmar 320-horsepower diesels with V-drives
- Dual Volvo Penta IPS 500 diesels with pod drives and non-tunnel hull
- Dual Volvo Penta IPS 600 diesels with pod drives and non-tunnel hull
- Greenline hybrid diesel electric drive with Volvo Penta D3 200-horsepower diesel engine capable of 15-knots
- Fully electric drive with twin 100-kilowatt Torqeedo inboard propulsion with four BMW battery banks capable of up to 11-knots

Warranty

Full Warranty Information on this brand coming soon.

Price

Pricing Range:

Base with dual Yanmar 320-horsepower diesel propulsion (\$669,000)

Base with dual Yanmar 320-horsepower diesel propulsion (\$689,000)

Base with dual Volvo Penta IPS 500 propulsion (\$755,000)

Base with dual Volvo Penta IPS 600 propulsion (\$799,000)

Base with hybrid diesel electric with Volvo Penta D3 (\$799,000)

Base with fully electric propulsion starting at (\$1,000,000)

Prices, features, designs, and equipment are subject to change. Please see your local dealer or visit the builder's website for the latest information available on this boat model.

Observations

The Greenline 45 Fly is exceptionally comfortable and ergonomic, as every space offered has roomy areas to move about. Everything was carefully thought out and designed to accommodate large groups on board in multiple gathering areas. One important consideration, whether at the dock or on the hook, the entire yacht's electrical system can be run off of the boats 600-amp of battery power, running through an inverter, and recharging through the dual 300-watt solar panels... refrigeration, air conditioning, lighting.... Everything.

The Greenline 45 Fly available in either shaft drive or hybrid drive to run on electric power. And for those who want speed as opposed to efficiency, the Greenline 45 Fly is also available with Volvo Penta IPS drives, so it's all about choices. The Greenline 45 Fly clearly deliverers for those customers looking to make their boat truly their own.