



Suzhou PARSUN Power Machine Co., Ltd.  
sales@parsun.com.cn www.parsunpower.com



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**PARSUN**

# OUTBOARD MOTOR

DIESEL OUTBOARD | 4-STROKE GASOLINE OUTBOARD | 2-STROKE GASOLINE OUTBOARD | ELECTRIC OUTBOARD | TROLLING MOTOR



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# PARSUN

Established in 2004

with a sprawling facility exceeding 100,000 m<sup>2</sup>

Dual Professional R&D Laboratories for Fuel-powered and Electric-powered

National Postdoctoral Research Station

R&D Laboratories with CNAS Certification



■ Global Sales and Service Network

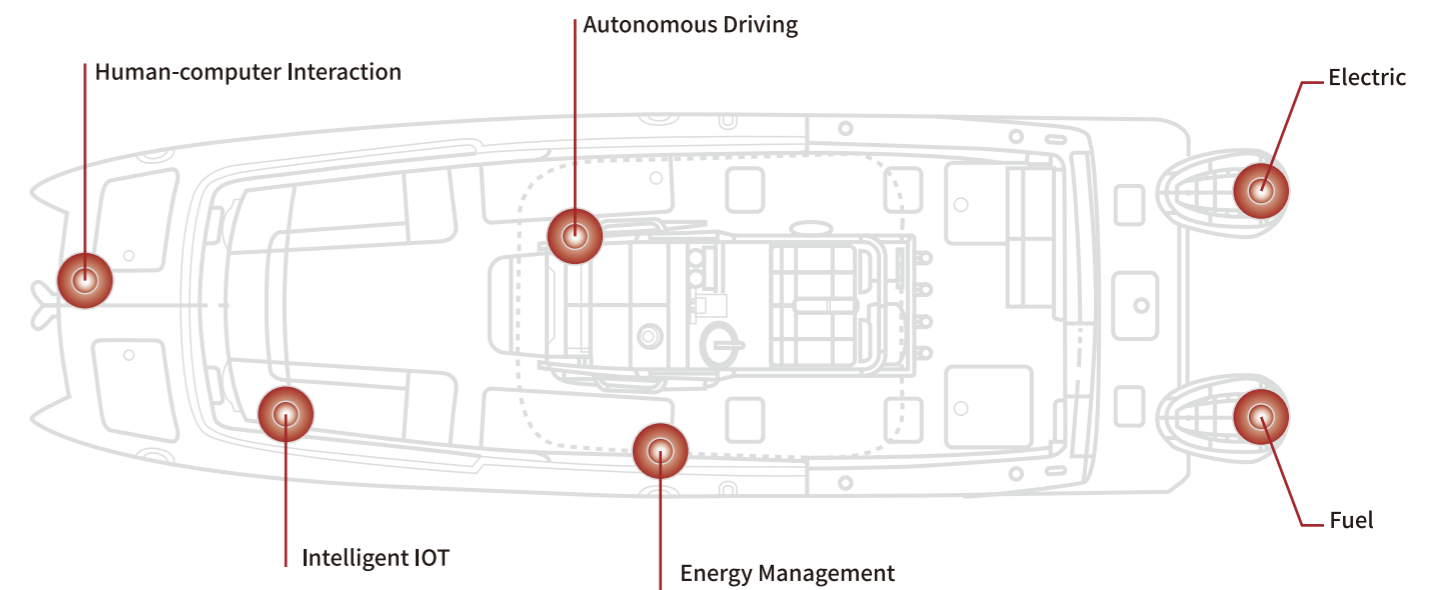
PARSUN Suzhou Headquarters



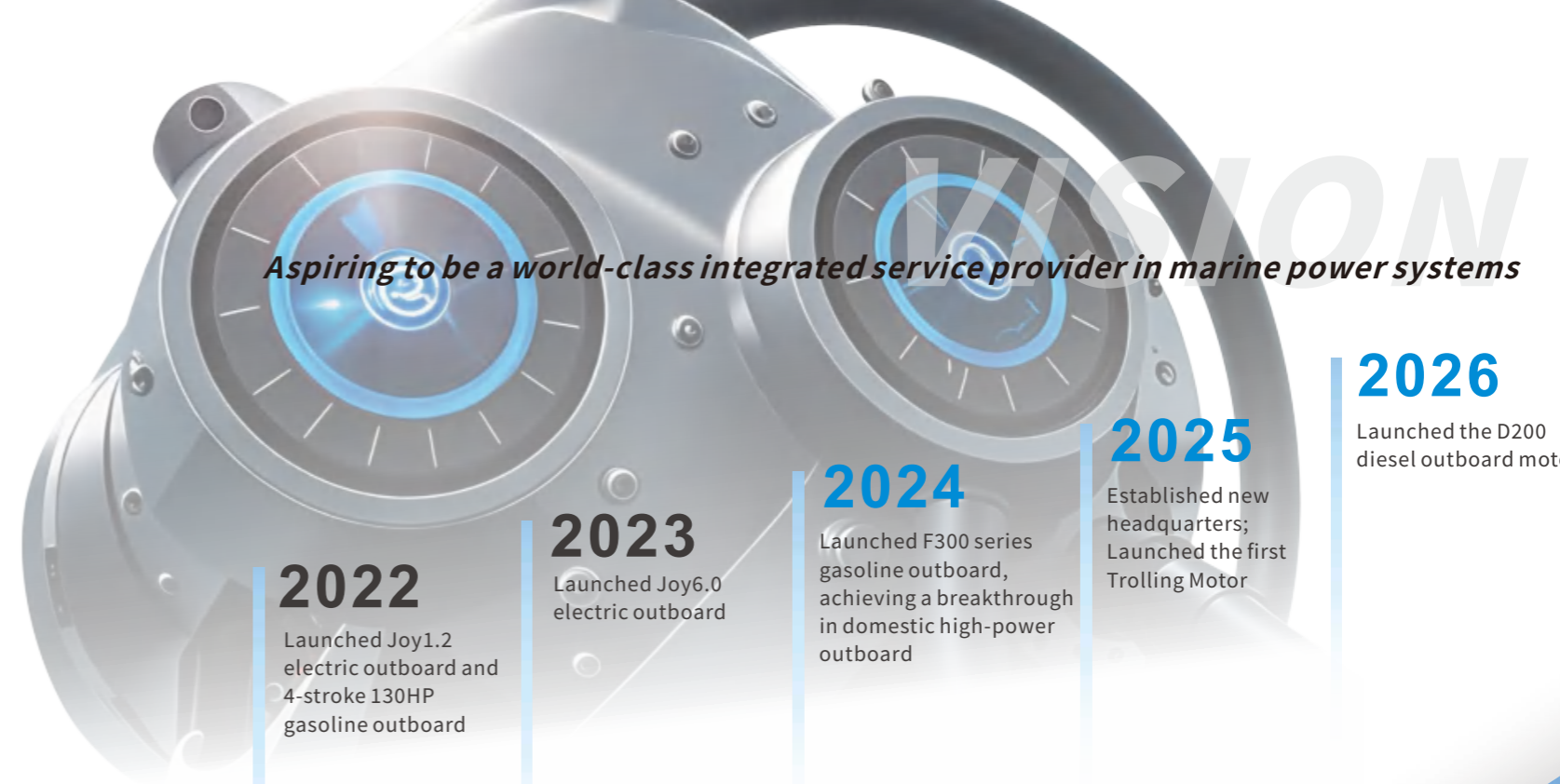
Manufacturing Base



Nanjing Sales Branch



# DEVELOPMENT HISTORY



*Aspiring to be a world-class integrated service provider in marine power systems*

**2004**

Official establishment; commenced R&D and production of outboard motors

**2012**

Awarded "National High-Tech Enterprise" status

**2017**

Leading Domestic Peers, Launched 4-stroke EFI 60HP gasoline outboard

**2020**

Partnered with OXE Marine (Sweden); released first domestic 4-stroke 115HP outboard

**2022**

Launched Joy1.2 electric outboard and 4-stroke 130HP gasoline outboard

**2023**

Launched Joy6.0 electric outboard

**2024**

Launched F300 series gasoline outboard, achieving a breakthrough in domestic high-power outboard

**2025**

Established new headquarters; Launched the first Trolling Motor

**2026**

Launched the D200 diesel outboard motor

**2021**

Awarded National-level "Little Giants of Specialized, Refined, Unique, and New Enterprises" title

**2018**

Launched 4-stroke EFI 6HP and 20HP outboards

**2015**

Wholly-owned subsidiary of Dongfang Precision (Stock Code: 002611); Launched 4-stroke EFI

**2006**

Became China's leading outboard brand by production and export volume

# ADVANCED TECHNOLOGY

## Electronic Fuel Injection

As the heart of the outboard motor, the EFI system is primarily utilized in medium to high-power 4-stroke outboards. It effectively enhances intelligent control and delivers superior power performance. While significantly reducing fuel consumption and minimizing exhaust emissions.

\*Applicable to F20A and above EFI model

## Sleeveless Engine Technology

Offers lighter weight while extending the overall service life of the engine.

## Counter-Rotation Propeller Design

In twin-engine applications, a configuration where the port engine rotates left and the starboard engine rotates right ensures optimal propulsive thrust. This effectively eliminates speed loss caused by water turbulence and propeller interference.

## Engine Diagnostic System

Connects to the Engine Control Unit (ECU) via a Bluetooth device. Enabling users to monitor real-time operating data and perform fault diagnostics through a mobile app, this significantly simplifies after-sales service and operational maintenance.



# EXPERIENCE



## Built-in Freshwater Flushing System

Almost all PARSUN outboards are equipped with this feature, ensuring that cleaning the engine's cooling passages is simpler and more convenient.



## Through-Propeller Hub Exhaust

Exhaust gases are discharged through the center hole of the propeller on the lower unit, which helps improve boat performance and reduces operating noise.



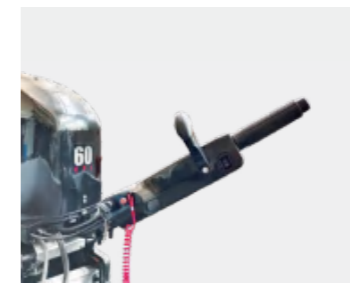
## LED Warning Indicators

A fault alarm system is located on outboard. If a fault occurs during operation, the LED indicator will flash continuously and a buzzer will sound to alert the operator.



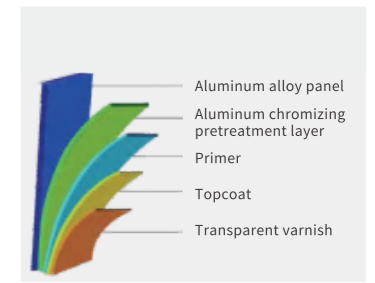
## Magnetic Drain Plug

The magnetic drain plug attracts and traps metallic impurities in the engine oil. These impurities are removed along with the oil when the plug is opened during an oil change.



## Multi-function Tiller Handle

This handle integrates the engine ignition, shifting, throttle control, emergency stop, and fault alarm systems. It allows users to control the outboard motor more easily and ensures a safer driving experience.



## Marine-Grade Anti-Corrosion Protection

A five-layer coating system combined with multiple sacrificial anodes provides excellent corrosion resistance in diverse environments. This is a standard feature on PARSUN outboards, ensuring durability and a long service life.

# Quality: The Confidence To Sail Further



Strictly adheres to ISO 9001/ISO 14001  
quality management standards

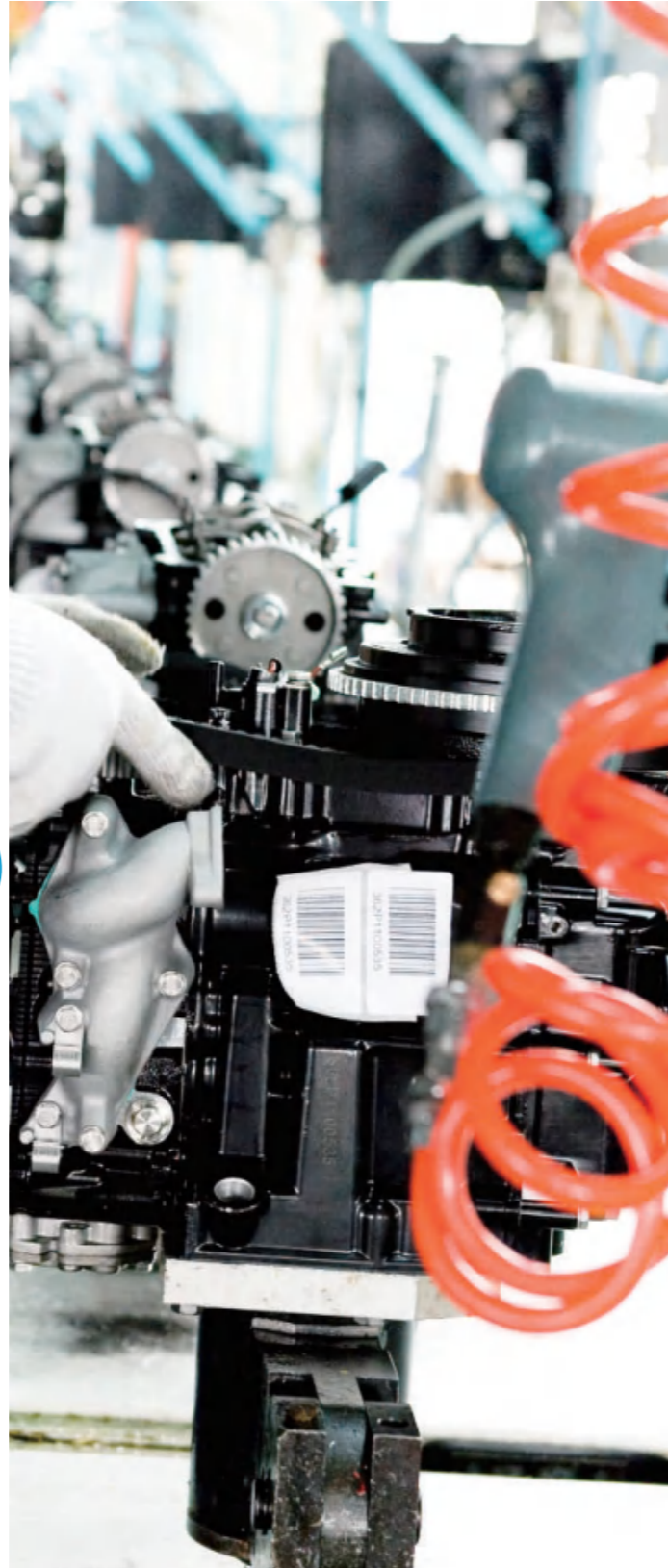


Certified by US EPA and EU CE standards



100% Factory Pre-testing

# QUALITY



**OUTBOARD MOTORS**



# D200 Series

## Commercial Power, The Reliable Choice

PARSUN Power proudly introduces its fully independently developed diesel outboard motor, covering 100-200 HP. Successfully filling the technological gap in China's high-power diesel outboards, it has achieved CCS certification, setting a new industry benchmark. With high fuel economy, robust output, and exceptional reliability, the D200 is ideal for fishing, passenger transport, freight, and patrol applications. Making it the ideal choice for commercial applications. It drives industry upgrades and supports the rise of China in the global marine power sector.



# 200HP DIESEL FOUR STROKE

Model	D200	D175	D150
<b>Max. Output Power (HP/kW)</b>	200HP 147kW	175HP 129kW	150HP 110kW
<b>Transom Height(in.)</b>	25/30/35		
<b>Engine Type</b>	L4 diesel, WGT turbocharged, intercooler, closed cooling circuit, heat exchanger / raw water		
<b>Displacement(cc)</b>	1996		
<b>Bore*Stroke(mm)</b>	83.0 X 92.0		
<b>Ignition System</b>	Compression ignition		
<b>Fuel Injection System</b>	Common rail direct injection		
<b>Max. RPM Range (r/min)</b>	4000		
<b>Idling RPM Range (r/min)</b>	600-700		
<b>Gear Ratio</b>	high-speed:1.64:1 high-thrust:2.36:1		
<b>Trim and Tilt System</b>	Power trim & tilt		
<b>Max. Fuel Consumption(L)</b>	43	36	31
<b>Engine Oil Capacity(L)</b>	6		
<b>Alternator Output</b>	12V,120A		
<b>Weight(KG)</b>	≈360		
<b>Recommended type of diesel</b>	0#/ULSD/EN590		

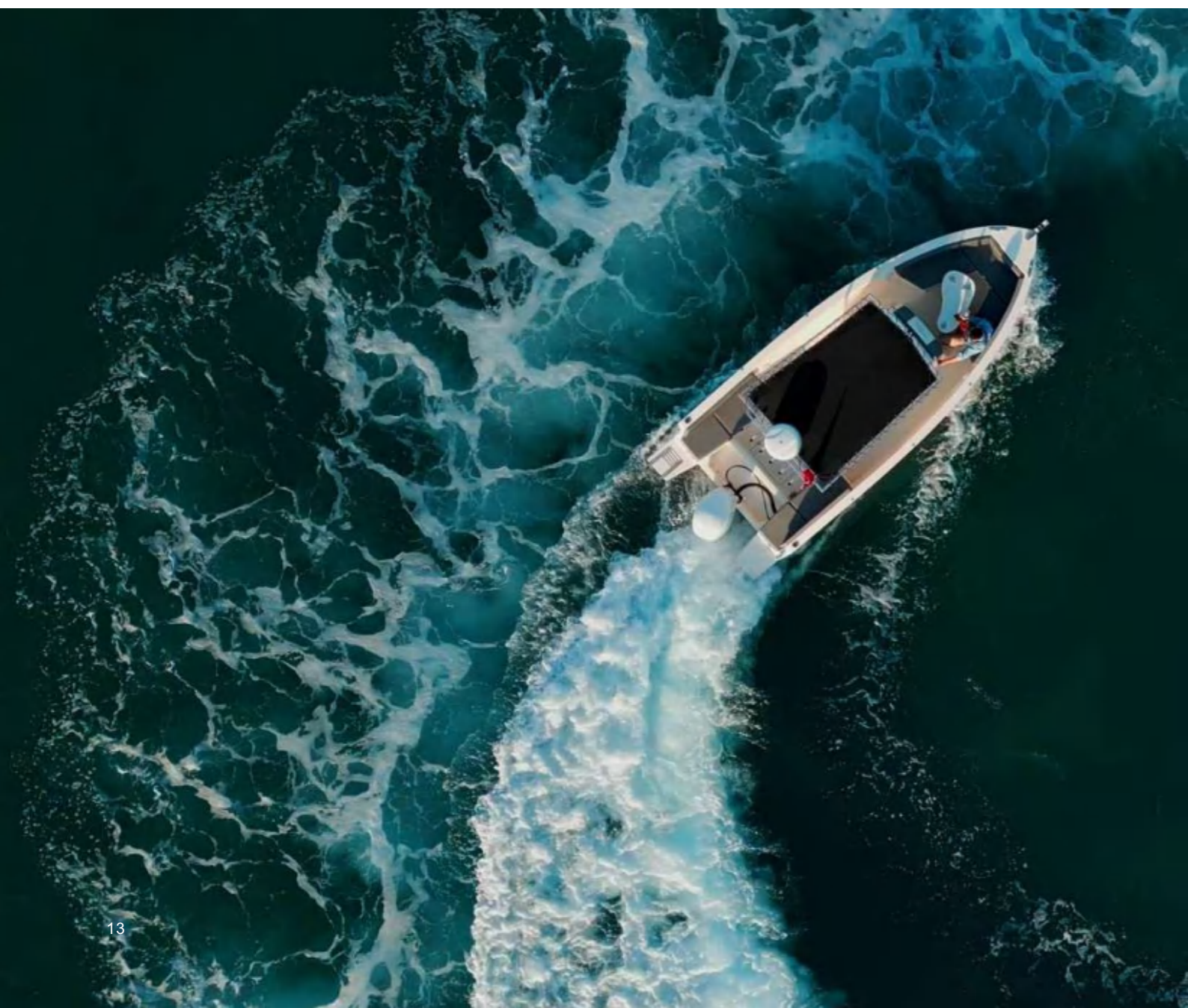


- Strong torque output, with peak torque increased by 57% compared to traditional gasoline engines; designed for heavy commercial use with ample power and rapid response.
- Extreme fuel economy, with operating costs reduced by 50% compared to gasoline engines, delivering significant cost advantages for long-term operations.
- Equipped with patented dual-gear ratio technology to easily adapt to various working conditions and scenarios, offering flexible and reliable performance.
- Intelligent control systems and HMI features make operation simpler and more intuitive, greatly improving work efficiency and user experience.

# 4-STROKE GASOLINE OUTBOARD

## 2.6 HP - 300 HP

Our comprehensive lineup of water-cooled 4-stroke engines, ranging from 2.6 HP to 300 HP, features a compact and lightweight design that delivers superior acceleration while achieving outstanding fuel economy and clean emissions. High-power models come standard with ECU-managed Electronic Fuel Injection (EFI) technology to further enhance intelligent control, ensure effortless starting, and boost overall performance; regardless of the operating environment, there is always a PARSUN outboard perfectly suited to meet your needs.



### Highly Integrated Structure

Beneath the lightweight and compact cowling lies immense power and acceleration—the hallmark of PARSUN 4-stroke outboards.

### Quiet Operation Mode

Exhaust is discharged through the propeller hub while running, effectively reducing engine noise.



## 4-STROKE GASOLINE OUTBOARD



### Exceptional Fuel Economy

The Electronic Fuel Injection (EFI) system delivers a precise air-fuel ratio, reducing fuel consumption and minimizing carbon buildup.

### High-Output Alternator

Provides high-capacity charging to ensure ample power for various precision marine electronics and accessories.

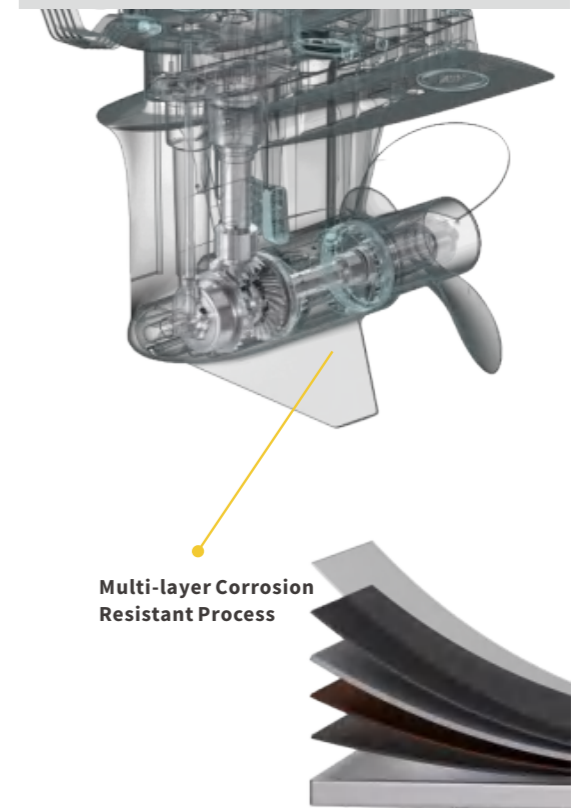
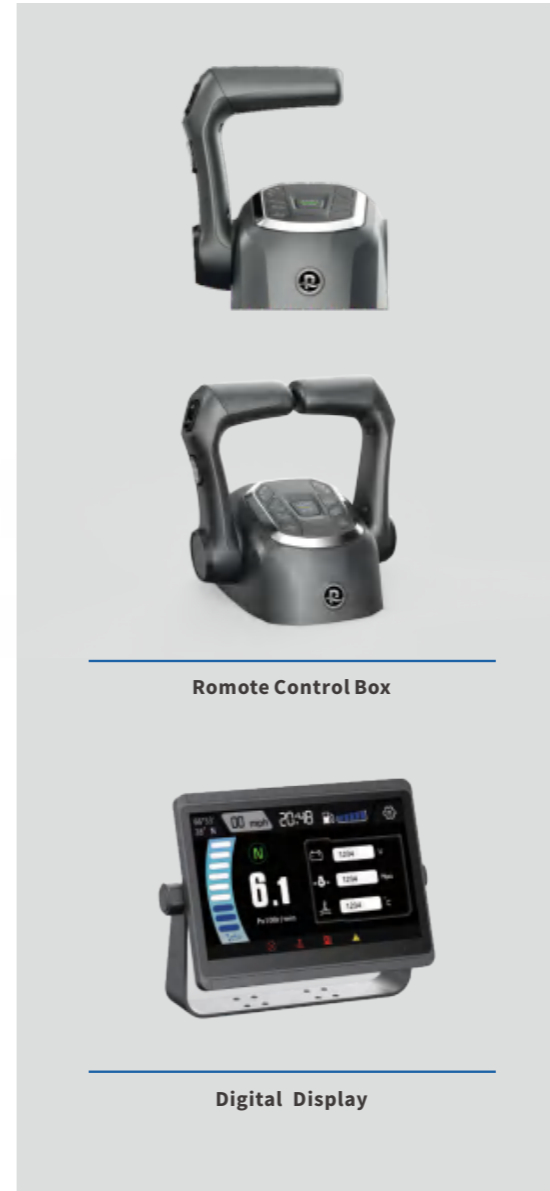
### Dual control modes offer more options.

Both remote control and tiller handle models offer unique driving pleasure; choose the configuration that suits your preference.

### International Environmental Certification

Fully compliant with U.S. EPA and EU CE emission standards.

# F300 4-STROKE OUTBOARD MOTORS



## F300 4-STROKE OUTBOARD MOTORS

F300 is a next-generation masterpiece, born from PARSUN's decades of R&D expertise, covering a powerful range of 200HP to 300 HP. The F300 is defined by its high power output, superior fuel economy, and advanced intelligence. With its signature high power and massive torque, it delivers formidable thrust to your boat, ensuring an exhilarating and high-octane driving experience. It comes equipped with a sophisticated electronic control system and various variable configurations, including Variable Valve Timing (VVT). Its high level of intelligence caters to the personalized needs of users across diverse application scenarios. Whether for leisure or commercial use, the F300 perfectly balances the dual demands for raw power and optimized operating costs. Furthermore, the system provides an array of intelligent auxiliary and safety features, making your navigation simpler and more secure.



# 85-130HP 4-STROKE EFI OUTBOARD MOTORS



### Superior Anti-Corrosion Capability

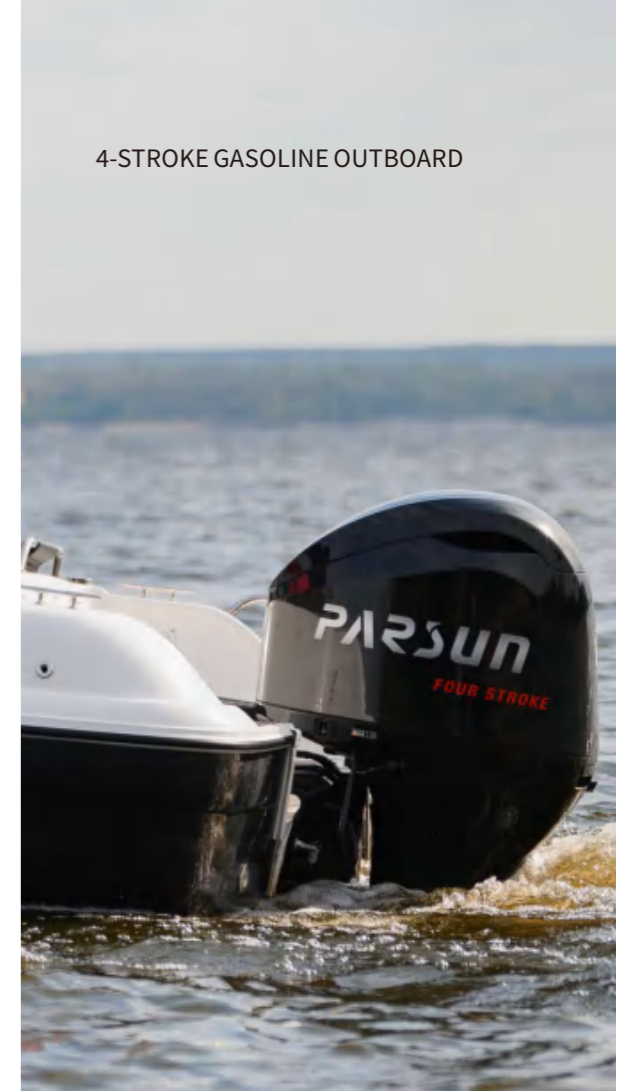
F85-F130 series offers exceptional saltwater protection. Utilizing proven marine-grade anti-corrosion aluminum alloys, stainless steel components, and a five-layer coating system, the durability of PARSUN outboards is fully guaranteed. The application of multiple sacrificial anodes throughout the body further enhances the outboard motor anti-corrosion performance.

### Compact & Efficient Powerhead

Featuring advanced PARSUN engine technology, it integrates an ECM-controlled Multi-Point Electronic Fuel Injection (EFI) system and a Double Overhead Camshaft (DOHC) design. This ensures powerful output while minimizing overall weight and dimensions.

### Counter-Rotating Models

For twin-engine applications, the counter-rotating propeller design (left-hand for the port engine, right-hand for the starboard) ensures optimal thrust and eliminates speed loss caused by water interference between propellers.



## 85-130HP 4-STROKE EFI OUTBOARD MOTORS

As high-power outboards, the F85-F130 models are ideal for larger boat, providing robust power to explore further horizons. Electric start and power trim&tilt, combined with a remote control system, allow users to handle the boat with ease and fully enjoy the thrill of driving. Whether for solo fishing, family cruising, or other water recreational activities, the F85-F130 series is an excellent choice.



Ultra Long Shaft



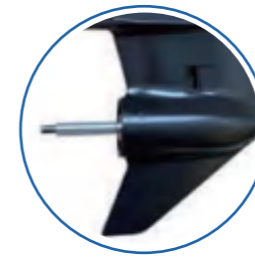
Power Trim & Tilt Switch



Multi-function Touchscreen Display



# 30-60HP 4-STROKE EFI OUTBOARD MOTORS



High-Thrust Gearbox



Engine Fault Diagnosis System



Dual Water Inlets



## 30-60HP 4-STROKE EFI OUTBOARD MOTORS

Featuring a SOHC (Single Overhead Camshaft) design with 3/4 cylinders and 6/8 valves, this engine structure delivers powerful torque and power in a short duration with faster acceleration, ensuring high-efficiency power output. Balancing price and performance, PARSUN 30-60HP EFI outboards are powerful, reliable, and easy to operate, making them the premier choice for family water recreation.



### Lower Emissions and Reduced Fuel Consumption

The Electronic Fuel Injection (EFI) system provides a precise air-fuel mixture ratio, significantly reducing fuel consumption.

### Pleasurable Driving Experience

The optional remote control system features an intelligent dashboard that clearly displays key operating parameters such as engine temperature, fuel level, and fault alarms at a glance.

### Multi-Function Integrated Tiller Handle

The handle functions similarly to a remote control box, including: engine ignition switch, emergency stop switch, power tilt button, throttle, gear shift lever, and LED warning indicators.

# 2.6HP-20HP PORTABLE 4-STROKE OUTBOARD MOTORS



4-STROKE GASOLINE OUTBOARD

## Convenient Refueling System

Separate oil filling eliminates the need for mixing oil and gasoline, making operation more convenient. The built-in fuel tank eliminates the need for external tank installation while saving valuable deck space (Applicable to models under 6HP).



## 2.6HP-20HP PORTABLE 4-STROKE OUTBOARD MOTORS

A compact and small-scale structure packed with formidable power. Whether heading to your favorite fishing spot or enjoying a weekend getaway, these 4-stroke outboards ensure a pleasant and smooth journey.



# 2-STROKE GASOLINE OUTBOARD MOTORS



## 2-STROKE GASOLINE OUTBOARD MOTORS 2-90HP Carbureted Models

PARSUN 2-stroke outboards feature innovative designs and satisfying performance, with a wide range of types and models to meet diverse customer needs. The PARSUN Commercial Series 2-stroke outboards are built to withstand long hours of continuous operation, specifically meeting the power demands of fishermen during their daily operations.

## 2-STROKE GASOLINE OUTBOARD



### Versatile Specifications

Ranging from 2 to 90 HP, available in both remote control and tiller handle models. They meet the recreational needs of individual users and are also suitable for commercial workboats.

### Strong Power Output

With a lightweight body and simple engine structure, the power-to-weight ratio of these 2-stroke outboards delivers exceptional acceleration, flexible handling, and exhilarating power.

### Long-Lasting Durability

PARSUN 2-stroke outboards utilize high-quality crankshafts, gearboxes, and premium marine-grade aluminum alloy components to enhance durability and extend the engine's service life.

### Shallow Water Drive

Equipped with a shallow water drive system featuring multiple tilt angles. This allows boat powered by PARSUN 2-stroke outboards to navigate smoothly through creeks and river estuaries without obstruction.



## 50HP-90HP

# 2-STROKE OUTBOARD MOTORS

This series delivers robust power and exceptional acceleration performance, allowing you to fully experience the thrill of water surfing, Whether for solo fishing, pleasure trips, or as a power source for workboats, this 2-stroke series is the ultimate choice.

- High-grade marine aluminum alloy provides outstanding anti-corrosion protection.
- Water cooling system with thermostat control.
- Safety lanyard with emergency stop function
- Hydraulic-assisted tilt system simplifies manual operation.



## 20HP-40HP

The T20-T40 series consists of mid-range horsepower 2-stroke outboard motors. Engineered for demanding environments, they excel in long-duration continuous operation and frequent daily use. Renowned for reliable performance and exceptional cost-effectiveness, this series is highly favored by professional fishermen.

- Multiple tilt positions to prevent bottoming out during shallow water navigation.
- Durable crankshafts, pistons, gears, and gearboxes forge outstanding reliability.
- The magnetic oil drain plug effectively captures impurities in the gear oil to protect the gears.
- Multi-layer anti-corrosion coatings and anode protection technology extend the service life during saltwater operations.

## 2HP-18HP

The T2-T18 series features portable, small-scale 2-stroke outboard motors, serving as ideal propulsion units for nearshore boats. Designed to meet personal water recreation needs, this series is perfectly suited for inflatable boats, aluminum alloy boats, pontoon boats, and other small boat. Reliable performance and simplified maintenance are its hallmark features.

- Lightweight and compact dimensions for effortless movement, transport, and storage
- Simple construction ensures low-cost maintenance and servicing.
- 2 to 5.8HP feature built-in fuel tanks for easier installation and operation.



# ELECTRIC OUTBOARD MOTORS



## JOY6.0

### Performance

Power(W)	Speed(kph)	Power(W)	Speed(kph)
6000w	11.5	3000w	8.5
5000w	10.5	2000w	8.2
4000w	9.6	1000w	7.6

注:4.2米橡皮艇



Engineered with innovative high-strength materials for superior durability and lightweight performance

Water cooling system for motor and controller  
Ensures reliable and long-lasting operation  
Available in both remote control and tiller handle models

Bluetooth+smart App

Vibrant Color Touchscreen LCD  
Enhanced Interactive Experience

Integrated Smart Display Controller (High Integration)

### Unique Innovation

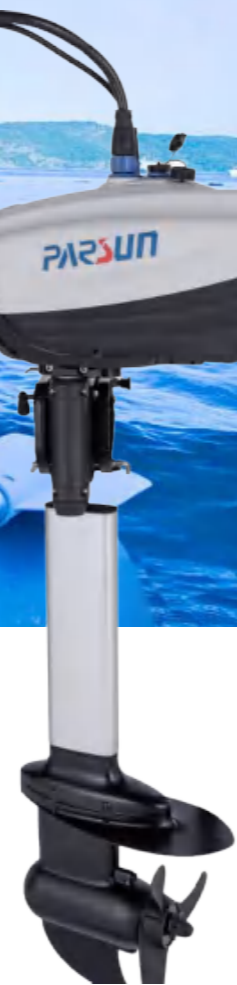
- Available in both Remote Control and Tiller Handle models
- Aluminum alloy tiller handle, engineered for heavy-duty press-and-tilt operation
- Hydrogeneration functionality
- Higher-grade anti-corrosion treatment
- 48V operating voltage for maximum safety and reliability
- Direct-drive Brushless DC (BLDC) motor minimizes power loss and maximizes propulsion efficiency
- Built-in Bluetooth connects to a dedicated mobile APP for expanded control and monitoring

ADVANTAGES

# JOY1.2

The Joy1.2 is a portable electric outboard motor designed for sailboats, dinghies, and other small boats. Direct-drive motor propeller ensures higher transmission efficiency and extended range.

## ELECTRIC OUTBOARD MOTORS



### Performance

Power(W)	Speed(kph)	Runtime(min)	Range(km)
1000w	8.7	72	10.4
2000w	8.3	86	12
800w	7.7	108	13.9
600w	6.9	144	16.6

\*Test data is derived from PARSUN R&D laboratory, conducted on a 3-meter inflatable boat carrying two adult males in a calm river environment

Actual operating speed and range will vary depending on boat type, load, and hydrological conditions.



ELECTRIC OUTBOARD

### High-Efficiency Battery Performance

High-density rechargeable battery, lightweight at only 9.2kg; excellent battery durability, usable even in harsh conditions.

1440Wh Lithium Battery: High density and large capacity, supporting a longer range.

Floating Design: The battery will automatically float even if it falls into the water.

Multiple Charger Options: Standard charger, fast charger, and solar charger.

Sleep Protection Function: If there is no operation within a set time, the battery will automatically enter sleep mode to save power and protect the battery.

### Portable Design

The entire unit is detachable; the battery and shaft can be packed separately, minimizing space requirements for easy transport and storage.

Lightweight: The total unit weighs only 20kg.

Compact Footprint: Detachable design for effortless carrying and transportation.

Foldable Handle: Allows for rapid deployment and stowage.

### Visualized Operation

Digital LCD Display: Provides real-time status of the motor's operation.

Magnetic Emergency Switch: Shuts down the motor in emergencies to ensure passenger safety.

Stepless Speed Control: Delivers timely and smooth speed response.

Backlight: Ensures a clearer screen display.

# TROLLING MOTOR

- Flexible wiring installation on either side for convenience, suitable for more boat types and mounting positions.
- Scissor-style bracket allows for faster and simpler cable retraction.
- Advanced GPS technology for more precise positioning.
- Dual protection system to prevent wiring entanglement and tearing.
- Composite shaft features lightweight, high strength, and resistance to corrosion, wear, and fatigue.
- Powerful thrust with low noise operation.



## TM120A

### Specification

Rated Voltage Of Motor (VDC)	Maximum Current Of Motor(A)	Thrust(lbs)	Control Mode
24/36	50	80-120	Remote control/foot pedal
Power(W)	Axis Length(in)	Installation Method	Waters
1200/1600	50/65	bow	Freshwater/seawater



### Intelligent Autonomous Positioning

Utilizing GPS+IMU+intelligent control algorithms, the boat can automatically adjust its position and attitude based on positioning, freeing your hands to focus on the fishing experience.



### Easy Deployment

Foldable structure with auxiliary stow-and-deploy function for effortless setup and use.



### Patented Steering Structure and Support Base

A unique steering gear architecture and reinforced support base design ensure the trolling motor remains stable and reliable even under extreme conditions. Furthermore, this design simplifies the installation and maintenance process, reducing operational costs. Innovative steering control provides more precise angles.



### High Waterproof Rating and Anti-Tangle Technology

Innovative high-waterproof design combined with anti-tangle spring technology ensures superior performance in harsh marine conditions and extends the equipment's service life.



### Supports multiple smart control functions.

Supports features including Electronic Anchor, Course Hold, Cruise Control, Momentary, and Continuous modes.

# TROLLING MOTOR

- Synchronized angular rotation with high-precision, durable gearing.
- Advanced GPS technology for automatic position adjustment and effortless operation.
- Dual protection to prevent wiring entanglement and tearing.
- Composite shaft features lightweight, high strength, and resistance to corrosion, wear, and fatigue.
- Powerful thrust with whisper-quiet performance.
- Foot pedal or remote control options with versatile functions to meet diverse requirements.



TROLLING MOTOR

## Reinforced Composite Main Shaft

Engineered with a high-strength, anti-fracture composite core and treated via a specialized process for maximum durability. We offer a Limited Lifetime Warranty, guaranteeing ultimate reliability in any conditions.

## Dual Control Modes

Features Dual-Mode Operation supporting both wireless remote and foot pedal controls. Switch seamlessly to match your operating style and environmental needs.

## Intelligent Anti-Tangle System

Integrated with synchronous gearing, Hall magnetic encoders, and IMU sensors to deliver automatic cable de-tangling. This system prevents cord twisting and ensures continuous, smooth rotation.

## High-Precision GPS Navigation

Powered by an advanced GPS suite supporting Anchor Mode, track recording, and precise heading/speed adjustments. Managed via a wireless remote control with one-touch operation, it achieves autonomous cruising and positioning to assist in continuous target tracking and enhance operational efficiency

# TM120B

## Specification

Rated Voltage Of Motor (VDC)	Maximum Current Of Motor(A)	Thrust(lbs)	Control Mode
12/24	50	55/90	Remote control/foot pedal
Power(W)	Axis Length(in)	Installation Method	Waters
600/1200	50/65/75/85	bow	Freshwater/seawater



## Multi-function Touchscreen Display:

PARSUN EFI outboards offer optional 5-inch, 5.5-inch, or 10-inch multi-function touchscreen displays, allowing users to quickly and clearly monitor the engine's operating status



# PARTS&ACCESSORIES

### REGULAR FUCTIONS

- Engine RPM.
- Tilt & Trim angle
- Engine temperature
- Engine oil level
- Battery voltage
- Boat speed
- Engine Operating Hours.
- Water Temperature.
- Fuel Level.
- GPS.

### ALTER INDICATION

- Overheat.
- Low Oil Pressure.
- Low Voltage.
- High Exhaust Temperature.
- Intake Pressure.
- High Intake Temperature.
- Propeller RPM.
- Insufficient Atmospheric Pressure.
- Throttle Position Sensor.
- Idle Air Control Position.
- Timing

### BASIC SETTING

- Date.
- Language.
- Time.
- Unit.
- Brightness.

### INTERACTION

- Diagnostic Trouble Codes.
- Fault Records.
- Clear Faults.
- Maintenance Interval.

## PARSUN Smart Diagnostic System

This system includes a Bluetooth device and a mobile app. Users can download and install the software by searching for "PARSUN" in the Apple Store or "PARSUN SMART APP" in the Google Store.



- It supports fault diagnosis by quickly displaying the engine's operating status and fault types, and can pinpoint faulty components.
- The system also includes a parts catalog for 40/60/115 HP models, with language options available in English or Chinese.



Fuel Tank

Fuel-Water Separator

Stainless Steel Propeller

Steering System

Multi-function Tiller Handle

Engine Oil

Gear Oil

### Caution:

- Perform regular maintenance, inspect fast moving parts, and ensure timely repair or replacement. Always use genuine original parts.
- While others may look similar, they lack the same quality; PARSUN genuine parts undergo rigorous screening, technical testing, and practical validation, and are produced by professional manufacturers.
- Using genuine parts ensures peak performance and effectively extends the engine's service life.
- Additionally, any malfunctions caused by using non-genuine parts are not covered under PARSUN's warranty.

# SPECIFICATIONS

## DIESEL OUTBOARD

Model	Max. Output Power (HP/Kw)	Transom Height (in.)	Engine Type	Displacement (cc)	Bore*Stroke(mm)	Ignition System	Fuel Injection System	Max. RPM Range(r/min)	Idling RPM Range(r/min)	Steering System	Starting System	Gear Shift	Gear Ratio	Trim and Tilt System	Max. Fuel Consumption(L)	Engine Oil Capacity(L)	Gear Oil Capacity(cc)	Alternator Output	Propeller Options (in.)	Weight(KG)	Recommended type of diesel
D200	200HP 147kW	25/30/35	L4 diesel, WGT turbocharged, intercooler, closed cooling circuit, heat exchanger / raw water	1996	83.0 X 92.0	Compression ignition	Common rail direct injection	4000	600-700	hydraulic steering/remote control	Electric	F-N-R	high-speed:1.64:1 high-thrust:2.36:1	Power trim & tilt	43	6	high-speed:3-16-19 high-thrust:4-16-19	12V,120A	Upper unit:1800 Lower unit:1328	≈360kg	0#/ULSD/EN590
D175	175HP 129kW														36						
D150	150HP 110kW														31						

## 4-STROKE GASOLINE OUTBOARD

Model	F300	F250	F200	F130	F115	F100	F90	F85	F60	F50	F60	F50	F40	F30	F20A/E	F15A/E	F15	F9.9	F9.8	F8	F6A	F5	F4	F2.6		
Specifications																										
Models	F300FEX-T-EFI F300FEU-T-EFI F300FEE-T-EFI F300FEX-T-EFI-L F300FEU-T-EFI-L F300FEE-T-EFI-L	F250FEX-T-EFI F250FEU-T-EFI F250FEE-T-EFI F250FEX-T-EFI-L F250FEU-T-EFI-L F250FEE-T-EFI-L	F200FEX-T-EFI F200FEU-T-EFI F200FEE-T-EFI F200FEX-T-EFI-L F200FEU-T-EFI-L F200FEE-T-EFI-L	F130FEL-T-EFI F130FEX-T-EFI F130FEL-T-EFI-L F130FEX-T-EFI-L	F115FEL-T-EFI F115FEX-T-EFI F115FEL-T-EFI-L F115FEX-T-EFI-L	F100FEL-T-EFI F100FEX-T-EFI F100FEL-T-EFI-L F100FEX-T-EFI-L	F90FEL-T-EFI F90FEX-T-EFI F90FEL-T-EFI-L F90FEX-T-EFI-L	F85FEL-T-EFI F85FEX-T-EFI F85FEL-T-EFI-L F85FEX-T-EFI-L	F60BEL-CT-EFI F60FEL-CT-EFI F60BEL-T-EFI F60FEL-T-EFI	F50BEL-CT-EFI F50FEL-CT-EFI F50BEL-T-EFI F50FEL-T-EFI	F60BEL-D-EFI F60BEL-T-EFI F60FEL-D-EFI F60FEL-T-EFI	F50BEL-D-EFI F50BEL-T-EFI F50FEL-D-EFI F50FEL-T-EFI	F40BES-D-EFI F40BEL-D-EFI F40BES-T-EFI F40BEL-T-EFI F40FES-T-EFI F40FEL-T-EFI	F30BES-D-EFI F30BEL-D-EFI F30BES-T-EFI F30BEL-T-EFI F30FES-T-EFI F30FEL-T-EFI	F20A/E BML F20A/E BMS F20A/E BWL F20A/E BWS F20A/E FWL F20A/E FWS	F15A/E BML F15A/E BMS F15A/E BWL F15A/E BWS F15A/E FWL F15A/E FWS	F15BML F15BMS F15BWL F15BWS F15FWL F15FWS	F9.9BML F9.9BMS F9.9BWL F9.9BWS F9.9FWL F9.9FWS	F9.8BML F9.8BMS F9.8BWL F9.8BWS F9.8FWL F9.8FWS	F8BML F8BMS F8BWL F8BWS F8FWL F8FWS	F6ABMS F6ABML F6ABMS F6ABML	F5BMS F5BML	F4BMS F4BML	F2.6BMS F2.6BML F2.6ABMS F2.6ABML		
Max. Output Power (HP/kw)	300HP (220.6kW)	250HP (183.7kW)	200HP (147kW)	130HP (95.6kW)	115HP (84.6kW)	100HP (73.5kW)	90HP (66.2kW)	85HP (62.5kW)	60HP (44.1kW)	50HP (36.8kW)	60HP (44.1kW)	50HP (36.8kW)	40HP (29.4kW)	30HP (22.05kW)	20HP (14.7kW)	15HP (11kW)	15HP (11kW)	9.9HP (7.3kW)	9.8HP (7.2kW)	8HP (5.9kW)	6HP (4.4kW)	5HP (3.6kW)	4HP (2.9kW)	2.6HP (1.9kW)		
Transom Height (in.)	25/30/35			20/25			20		20		15/20		15/20		15/20		15/20		15/20		15/20		15/20			
Engine Type	V-6(60°),DOHC(Intake VVT)			L4DOHC			L4SOHC		L4SOHC		L3SOHC		L2SOHC		L2SOHC		L2SOHC		L2SOHC		OHV		OHV		OHV	
Displacement(cc)	4169			1832			996		996		747		362		323		209		148		112		72		72	
Bore*Stroke(mm)	96.0*96.0			81.0*88.9			65.0*75.0		65.0*75.0		65.0*75.0		63.0*58.1		59.0*59.0		55.0*44.0		64.0*46.0		59.0*41.0		54.0*31.5		54.0*31.5	
Ignition System	T.C.I			T.C.I			T.C.I		T.C.I		T.C.I		C.D.I/T.C.I		C.D.I		C.D.I		C.D.I		T.C.I		T.C.I		T.C.I	
Max. RPM Range (r/min)	5000-6000			5300-6300			5000-6000		5000-6000		5000-6000		5000-6000		5000-6000		4500-5500		5000-6000		4500-5500		4000-5000		5250-5750	
Idling RPM Range (r/min)	600-700			800-900			850-950		850-950		850-950		1000-1100		900-1000		900-1000		1450-1550		1500-1600		1550-1650		1550-1650	
Fuel Injection System	(multi-point) EFI			EFI			EFI		EFI		EFI		Carburetor/EFI		Carburetor		Carburetor		Carburetor		Carburetor		Carburetor		Carburetor	
Steering System	Hydraulic /Remote Control			Remote Control			Tiller/Remote Control		Tiller/Remote Control		Tiller/Remote Control		Tiller/Remote Control		Tiller/Remote Control		Tiller/Remote Control		Tiller/Remote Control		Tiller		Tiller		Tiller	
Starting System	Electric			Electric			Electric		Electric		Electric		Electric/Manual		Electric/Manual		Electric/Manual		Manual		Manual		Manual		Manual	
Gear Shift	F-N-R			F-N-R			F-N-R		F-N-R		F-N-R		F-N-R		F-N-R		F-N-R		F-N-R		F-N-R		F-N-R		F-N	
Gear Ratio	1.73			2.15			2.33		1.85		2		E - 1.85 / A - 2.08		2.08		2.08		2.15		2.08		2.08/2.25		2.08/2.25	
Trim and Tilt System	Electric			Electric			Electric		Gas-assist/Electric		Gas-assist/Electric		Manual		Manual		Manual		Manual		Manual		Manual		Manual	
Engine Oil Capacity(L)	/			/			24		24		24		24		24		12		Built-in1.3		Built-in1.3		Built-in1.2		Built-in1.2	
Max. Fuel Consumption (L/@5500rpm)	96.3	76	55.2	44	38.9	33.9	30.5	30	20	18.5	20	18.5	13.8	6.9	5.4	5.3	3.5	3.4	2.8	2.3	2	1.6	1.1	1.1	1.1	1.1
Engine Oil Capacity (L)	6.0			3.0			2.5		2.5		1.7		1.6		1.0		0.8		0.6		0.5		0.35		0.35	
Gear Oil Capacity(cc)	CW:1480 CCW:1328			CW:760 CCW:715			610		430		430		A-250/E-370		250		320		195		100		75		75	
Max charging(A)	12V,55A			12V,27A			12V,25A		12V,25A		12V,25A		12V,25A		12V,7A		12V,7A		12V,7A		/		/		/	
Propeller Options(in.)	3-16 <sup>1/4</sup> " × 17"			3-13 <sup>1/4</sup> " × 17" or 3-13 <sup>1/2</sup> " × 15"			3-13 <sup>1/4</sup> " × 17" or 3-13 <sup>1/2</sup> " × 15" or 3-13 <sup>5/8</sup> " × 13"		3-11 <sup>3/8</sup> " × 12" or 3-11 <sup>1/8</sup> " × 13"		3-11 <sup>3/8</sup> " × 12" or 3-11 <sup>1/8</sup> " × 13"		3-9 <sup>1/4</sup> " × 8"/10"/11"/12"		3-9 <sup>1/4</sup> " × 8"/10"/11"/12"		3-8.9" × 8.3"		3-7.8" × 9"		3-7 <sup>1/2</sup> " × 7"		3-7 <sup>1/4</sup> " × 6" or 3-7 <sup>3/8</sup> " × 5 <sup>3/8</sup> "		3-7 <sup>1/4</sup> " × 6" or 3-7 <sup>3/8</sup> " × 5 <sup>3/8</sup> "	
Weight(KG)	280-290			181-185			113-114.5		113-114.5		99.9-103		51.7-55.7		49-53		38-43		27-28		24.5-25.5		17-18		17-18	

■ How to choose the correct model?

Suffixes for different models.  
B=Back control (Tiller control), F=Front control (Remote control)  
M=Manual start, E=Electric start, W=Electric start + Manual start  
S=Short shaft, L=Long shaft, X=Ultra-long  
"-D"=Hydraulic elevator, "-T"=Electric tilt  
For our 4-stroke 100hp, 115hp & 130hp.  
"-L"=left rotation without "-L"=right rotation

■ How to choose the shaft with S or L or X?

Pls choose the shaft size based on the transom height of your boat.  
Transom height of boat: S=15" (in.)  
Transom height of boat L=20" (in.)  
Transom height of boat X=25" (in.)

\* The propeller should be selected according to the size and application of the boat.

# SPECIFICATIONS

## 2-STROKE GASOLINE OUTBOARD

Model	T90	T85	T75	T60A	T50A	T40	T40J	T40G	T30A	T25	T20	T18	TE15	T15	T9.9	T9.8	T8	T5.8	TC5	T5	TC3.6	T3.6	T2.5	T2.6C	T2				
<b>Models</b>	T90BML-D T90BMX-D T90BEL-D T90BEX-D T90FEL-T T90FEX-T	T85BML-D T85BMX-D T85BEL-D T85BEX-D T85FEL-T T85FEX-T	T75BML-D T75BMX-D T75BEL-D T75BEX-D T75FEL-T T75FEX-T	T60ABML-D T60ABWL-D T60AFWL-T	T50ABML-D T50ABWL-D T50AFWL-T	T40BMS T40BML T40FWS T40FWL T40BWS T40BWL T40FWS-T T40FWL-T	T40JBMS T40JBML T40JFWS T40JFWL T40JBWS T40JBWL	T40GBMS T40GBML T40GFWS T40GFWL T40GBWS T40GBWL	T30ABMS T30ABML T30AFWS T30AFWL T30ABWS T30ABWL	T25BMS T25BML T25FWS T25FWL T25BWS T25BWL	T20BMS T20BML T20FWS T20FWL T20BWS T20BWL	T18BMS T18BML T18FWS T18FWL	TE15BMS TE15BML	T15BMS T15BML	T9.9BMS T9.9BML	T9.8BMS T9.8BML	T8BMS T8BML	T5.8BMS T5.8BML	TC5BMS TC5BML	T5BMS T5BML	TC3.6BMS TC3.6BML	T3.6BMS T3.6BML	T2.5BMS T2.5BML	T2.6CBMS	T2CBMS				
<b>Max. Output Power (HP/kW)</b>	90HP (66.2kW)	85HP (62.5kW)	75HP (55.2kW)	60HP (44.1kW)	50HP (36.8kW)	40HP (29.4kW)	40HP (29.4kW)	40HP (29.4kW)	30HP (22kW)	25HP (18.4kW)	20HP (14.7kW)	18HP (13.2kW)	15HP (11kW)	15HP (11kW)	9.9HP (7.3kW)	9.8HP (7.2kW)	8HP (5.9kW)	5.8HP (4.3kW)	5HP (3.6kW)	5HP (3.6kW)	3.6HP (2.64kW)	3.6HP (2.64kW)	2.5HP (1.8kW)	2.6HP (1.9kW)	2HP (1.5kW)				
<b>Transom Height (in.)</b>	20/25		20/22		15/20		15/20		15/20		17/22		15/20		15/20		15/20		15/20		15/20		15						
<b>Engine Type</b>	L3			L3		L2		L2		L2		L2		L2		L2		L1		L1		L1		L1					
<b>Displacement(cc)</b>	1141			849		703		669		669		496		294		246		169		102		74.6		50					
<b>Bore*Stroke(mm)</b>	82.0*72.0			72.0*69.5		80.0*70.0		78.0*70.0		78.0*70.0		72.0*61.0		60.0*52.0		56.0*50.0		50.0*43.0		55.0*43.0		47.0*43.0		42.0*36.0					
<b>Ignition System</b>	C.D.I			C.D.I		C.D.I		C.D.I		C.D.I		C.D.I		C.D.I		C.D.I		C.D.I		C.D.I		T.C.I		T.C.I					
<b>Max. RPM Range (r/min)</b>	4500-5500			4500-5500		4500-5500		4500-5500		4500-5500		5200-5800		4500-5500		5000-6000		4500-5500		4500-5500		4200-5300		3800-5200		4500-5500		4000-5000	
<b>Idling RPM Range (r/min)</b>	750-850			950-1050		950-1050		1100-1200		1100-1200		1050-1150		950-1050		1000-1100		1150-1250		1000-1100		1450-1550		1100-1200					
<b>Fuel Injection System</b>	Carburetor			Carburetor		Carburetor		Carburetor		Carburetor		Carburetor		Carburetor		Carburetor		Carburetor		Carburetor		Carburetor		Carburetor					
<b>Steering System</b>	Tiller/Remote Control			Tiller/Remote Control		Tiller/Remote Control		Tiller/Remote Control		Tiller/Remote Control		Tiller		Tiller		Tiller		Tiller		Tiller		Tiller		Tiller					
<b>Starting System</b>	Manual/Electric			Manual/Electric		Manual/Electric		Manual/Electric		Manual/Electric		Manual		Manual		Manual		Manual		Manual		Manual		Manual					
<b>Gear Shift</b>	F-N-R			F-N-R		F-N-R		F-N-R		F-N-R		F-N-R		F-N-R		F-N-R		F-N-R		F-N-R		F-N		F					
<b>Gear Ratio</b>	2.0			2.33		2.0		2.0		1.85		2.08		1.85/2.15		2.08		2.08		2.08		2.15		2.08		2.08			
<b>Trim and Tilt System</b>	Gas-assist/Electric			Gas-assist/Electric		Gas-assist/Electric		Manual		Manual		Manual		Manual		Manual		Manual		Manual		Manual		Manual					
<b>Fuel Tank(L)</b>	24			24		24		24		24		24		24		12		12		Built-in2.7		Built-in1.5		Built-in1.2					
<b>Max. Fuel Consumption (L)</b>	37	35	34	25.5	21.5	20	20	20	12	11	9.4	9	7.7	7.9	5.1	5.1	4.3	3.1	2.6	2.6	1.8	1.4	1.5	1.3					
<b>Lubrication system (gasoline: oil)</b>	50:1			50:1		50:1		50:1		50:1		50:1		50:1		50:1		50:1		50:1		50:1		50:1					
<b>Gear Oil Capacity(cc)</b>	610			610		430		315		315		320		370		250		320		195	100	195	75	100	45				
<b>Max charging(A)</b>	12V;7A			12V;7A		12V;7A		12V;7A		12V;7A		/		/		/		/		/		/		/					
<b>Propeller Options(in.)</b>	3-13 <sup>1</sup> / <sub>4</sub> "×17" or 3-13 <sup>5</sup> / <sub>8</sub> "×13"			3-13 <sup>1</sup> / <sub>4</sub> "×17" or 3-13 <sup>1</sup> / <sub>2</sub> "×15" or 3-13 <sup>5</sup> / <sub>8</sub> "×13"		3-11 <sup>3</sup> / <sub>8</sub> "×12" or 3-11 <sup>1</sup> / <sub>8</sub> "×13"		3-11 <sup>1</sup> / <sub>2</sub> "×11"		3-9 <sup>7</sup> / <sub>8</sub> "×11 <sup>1</sup> / <sub>4</sub> " or 12"		3-9 <sup>1</sup> / <sub>4</sub> "×9"		3-9 <sup>1</sup> / <sub>4</sub> "×8" or 10" or 11" or 12"		3-8.9"×8.3"		3-7.8"×8"		3-7 <sup>1</sup> / <sub>2</sub> "×7" or 3-7 <sup>1</sup> / <sub>4</sub> "×6"		3-7.8"×8"		3-7 <sup>1</sup> / <sub>4</sub> "×6"		3-7 <sup>1</sup> / <sub>2</sub> "×7" or 3-7 <sup>1</sup> / <sub>4</sub> "×6"		3-7 <sup>1</sup> / <sub>4</sub> "×5"	
<b>Weight(KG)</b>	115-122			102-107		73.5-81.7		65-68.5		63.8-69.3		52-57.5		41-42		38-40		36-37.5		26-27		20-21		14.5-15.5		9.8			

ELECTRIC OUTBOARD  
TROLLING MOTOR

Model	Power	Standard battery	Rated voltage	Motor weight	Battery weight	Standard charging current	Fast charging current	Battery built-in	RPM	Tilt angle	Shaft length	Control mode	Drive	Max static thrust	Gear	Trim mode	Waterproof level
<b>Joy6.0</b>	6kW	8960Wh*1 - Single box use 4096Wh*2 - Parallel operation	48V	35±1KG	88KG(8960Wh) 47KG(4096Wh*1)	50A	/	No	1550rpm	Max60°	570(L)/442(S)mm	Tiller control / Remote control	direct drive	1170N	F-N-R	Manual	IP67
<b>Joy1.2</b>	1.2kW	1440Wh	36V	10.8KG	9.2KG	5A	20A	Yes	1750rpm	0°,5°,10°,15°,66°	551(L)/330(S)mm	Tiller control	direct drive	320N	F-N-R	Manual	IP67

Model	Motor rated voltage(V)	Power(W)	Shaft length(in)	Thrust(lbs)	Weight(kg)	Spindle material	Motor type	Control Type	Retraction Type	Heading sensor	Remote control box	Foot pedal	Installation method	Noise	Anchoring function	Warranty	Anchoring accuracy	Jog operation	Long term operation	Infinite speed regulation	Fixed heading	Route record	Route operation	Route reversal	Cruise	MEGA DI/SI support	Expand fish exploration bracket
<b>TM120A</b>	36/24	1500(max1800) /1100(max1200)	50/65	120/80	33	Composite glass fiber	Brushed DC	Foot Pedal	Maximum Limit Position	Steel cable retraction	Integrated all-in-one speed reduction steering motor or paired with high-precision metal gears for long-lasting durability	YES	Bow	<55dB	YES	2-year warranty, lifetime warranty on the shaft	1m	YES	YES	YES	YES	NO	NO	NO	NO	NO	NO
<b>TM120B</b>	12/24	600/1200	50/65/75/85	55/90	25KG+ (Depending on the configuration)	Fiberglass (50,65in) Carbon Fiber (75,85in)	DC BRUSH	Remote control / foot pedal	Manual lifting +rotation	Optional	Standard	Damping electronic (optional)	Bow	<55dB	YES	2-year warranty, lifetime warranty on the shaft	1.5m	YES	YES	YES	YES	YES	YES	YES	YES	YES	