

PUNSUN
Diesel outboard manufacturer · China

Water-cooled diesel outboards 25–40 HP

D25W, D30W and D40W for fishing boats, workboats and ship tenders. Mechanical injection, no ECU. Built and tank-tested in our own factory in Nantong for more than 15 years.

15+ years building diesel outboards	**Every engine** run under load in our test tank	**From 1 unit** dealer and OEM supply available	**2 hours** from Shanghai port

A diesel outboard factory in Nantong, China

PUNSUN is the marine propulsion brand of Nantong Runsun Industry Co., Ltd. For more than 15 years we have built marine diesel outboards in Nantong, Jiangsu, a shipbuilding city about two hours from Shanghai port. The engines in this catalogue are designed, assembled, tested and packed in our factory, and sold directly to dealers, boatyards and fleet operators.

Our current V-twin engines grew out of earlier single- and twin-cylinder diesel outboards, improved over years of daily commercial use in salt water. Parts that failed in the field were redesigned; what worked was kept.

That is why the engines stay mechanical. Working boats in remote ports need an engine a local mechanic can understand, with parts that can be sent from the factory or found nearby.



Engines bolted into steel frames for export. The frame doubles as a workshop stand.

Pre-shipment inspection & testing

Step 1

Assembly

Powerhead, mechanical injection pump and twin fuel filters assembled to set torque values.

Step 2

Tank test under load

Every finished engine runs in our water tank. We check cooling flow, oil pressure, gear shifting and throttle response.

Step 3

Oil drained, steel-frame packing

After the test the engine oil is drained (a small amount may remain). Each engine is then bolted into a reusable steel frame that protects it in transit and serves as a workshop stand.

Step 4

Parts & documents

English manual, quick-start sheet and any ordered spares or kits are packed with the shipment.

Where our engines work

China

Rescue & patrol

Flood-rescue boats, patrol craft, inland river workboats and boatyard installations.

Indonesia

Offshore & islands

Offshore service fleets, inter-island transport and local boatyards, with repeat orders.

Middle East

Heat & salt

Port utility and marine engineering boats in high temperature and salinity.

South America

Fishing & rivers

Shrimp fishing fleets and river passenger and cargo boats under daily load.

Three models

25, 30 and 40 HP. Choose by the boat and its load; the D40W suits heavier boats.



D25W

25 HP

For 4–7 m fishing and aquaculture boats, harbour utility boats and small tenders.

Displacement	**870 cc**
Rated fuel use	**2.8 L/h**
Dry weight	**100 kg**
Shaft	**550 mm std.**



D30W

30 HP

For ship tenders, island transport, shrimp boats and rescue craft.

Displacement	**997 cc**
Rated fuel use	**3.5 L/h**
Dry weight	**105 kg**
Shaft	**550 mm std.**



D40W

40 HP

For heavier RIBs, aluminium workboats and loaded hulls.

Displacement	**997T**
Rated fuel use	**4.6 L/h**
Dry weight	**115 kg**
Shaft	**550 mm std.**

Specification	D25W	D30W	D40W
Rated output	25 HP / 18.4 kW	30 HP / 22.1 kW	40 HP / 29.4 kW
Displacement	870 cc	997 cc	997T
Rated fuel use	2.8 L/h	3.5 L/h	4.6 L/h
Dry weight	100 kg	105 kg	115 kg
Engine type	4-stroke V-twin diesel, water-cooled		
Fuel injection	Mechanical direct injection, no ECU		
Shaft length	550 mm standard; 450 or 650 mm optional		
Dimensions (H × L × W)	1450 × 630 × 450 mm		

Full specifications for each model are on the following pages.

Scope & certifications: they are mechanical diesels built for commercial workboats outside the US and EU. They are not certified to US EPA or EU Stage V emission rules, or for SOLAS lifeboat use.



D25W 25 HP / 18.4 kW

The PUNSUN D25W is a 25 HP water-cooled diesel outboard with an 870 cc V-twin. Dry weight is 100 kg. Rated fuel consumption is 2.8 L/h.

Rated output	25 HP / 18.4 kW
Displacement	870 cc
Rated fuel use	2.8 L/h
Dry weight	100 kg
Engine type	4-stroke V-twin diesel, water-cooled
Fuel injection	Mechanical direct injection, no ECU
Fuel	Ordinary diesel or marine gas oil (ISO 8217 DMA / ASTM D975 No. 1-D, No. 2-D). Not heavy fuel oil.
Fuel tank	25 L external tank
Full-throttle range	3600–4000 rpm
Engine oil	2.3 L, API CD or CF; SAE 30 above 20 °C, SAE 20 at 10–20 °C, SAE 10W-30 at −5 to 20 °C, SAE 5W-20 below −5 °C
Starting	12 V key start with charging alternator; 12 V 60 Ah battery
Exhaust	Through-propeller
Gear shift / ratio	F-N-R / 1.92 : 1
Shaft length	550 mm standard; 450 or 650 mm optional
Standard propeller	13 1/8 × 15 in, 3-blade (heavy-load propeller optional)
Steering	Tiller standard; remote control kit optional
Dimensions (H × L × W)	1450 × 630 × 450 mm

Typical boats

- 4–7 m fishing and aquaculture boats
- Harbour mooring and utility boats
- Diesel-only tenders on larger vessels
- Operators replacing older 25–27 HP diesel outboards

Options

- Remote control kit
- Heavy-load propeller
- 450 / 550 / 650 mm shaft
- Service kits

Before you order: send the transom height, boat type and normal load. We confirm shaft length, propeller and controls so the engine arrives ready to fit.

Ask on WhatsApp | Email us | View on our website



D30W 30 HP / 22.1 kW

The PUNSUN D30W is a 30 HP water-cooled diesel outboard with a 997 cc V-twin. The D30W weighs 105 kg dry and comes with a 550 mm shaft as standard.

Rated output	30 HP / 22.1 kW
Displacement	997 cc
Rated fuel use	3.5 L/h
Dry weight	105 kg
Engine type	4-stroke V-twin diesel, water-cooled
Fuel injection	Mechanical direct injection, no ECU
Fuel	Ordinary diesel or marine gas oil (ISO 8217 DMA / ASTM D975 No. 1-D, No. 2-D). Not heavy fuel oil.
Fuel tank	25 L external tank
Full-throttle range	3600–4000 rpm
Engine oil	2.3 L, API CD or CF; SAE 30 above 20 °C, SAE 20 at 10–20 °C, SAE 10W-30 at −5 to 20 °C, SAE 5W-20 below −5 °C
Starting	12 V key start with charging alternator; 12 V 60 Ah battery
Exhaust	Through-propeller
Gear shift / ratio	F-N-R / 1.92 : 1
Shaft length	550 mm standard; 450 or 650 mm optional
Standard propeller	13 1/8 × 15 in, 3-blade (heavy-load propeller optional)
Steering	Tiller standard; remote control kit optional
Dimensions (H × L × W)	1450 × 630 × 450 mm

Typical boats

- Ship tenders and crane-launched workboats
- Shrimp and coastal fishing boats
- Inter-island passenger and cargo boats
- Rescue and flood-response boats with a rated transom

Options

- Remote control kit
- Heavy-load propeller
- 450 / 550 / 650 mm shaft
- Service kits

Before you order: send the transom height, boat type and normal load. We confirm shaft length, propeller and controls so the engine arrives ready to fit.

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D40W 40 HP / 29.4 kW

The PUNSUN D40W is a 40 HP water-cooled diesel outboard with a 997T V-twin. Dry weight is 115 kg, built for heavier workboats and loaded hulls.

Rated output	40 HP / 29.4 kW
Displacement	997T
Rated fuel use	4.6 L/h
Dry weight	115 kg
Engine type	4-stroke V-twin diesel, water-cooled
Fuel injection	Mechanical direct injection, no ECU
Fuel	Ordinary diesel or marine gas oil (ISO 8217 DMA / ASTM D975 No. 1-D, No. 2-D). Not heavy fuel oil.
Fuel tank	25 L external tank
Full-throttle range	3600–4000 rpm
Engine oil	2.3 L, API CD or CF; SAE 30 above 20 °C, SAE 20 at 10–20 °C, SAE 10W-30 at −5 to 20 °C, SAE 5W-20 below −5 °C
Starting	12 V key start with charging alternator; 12 V 60 Ah battery
Exhaust	Through-propeller
Gear shift / ratio	F-N-R / 1.92 : 1
Shaft length	550 mm standard; 450 or 650 mm optional
Standard propeller	13 1/8 × 15 in, 3-blade (heavy-load propeller optional)
Steering	Tiller standard; remote control kit optional
Dimensions (H × L × W)	1450 × 630 × 450 mm

Typical boats

- Heavy RIBs and aluminium workboats
- Loaded fishing and cargo hulls
- Coastal patrol boats
- Offshore crew and utility tenders

Options

- Remote control kit
- Heavy-load propeller
- 450 / 550 / 650 mm shaft
- Service kits

Before you order: send the transom height, boat type and normal load. We confirm shaft length, propeller and controls so the engine arrives ready to fit.

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Why these engines suit working boats



One fuel on board

Runs on the same diesel as the mother vessel or fleet. No petrol is stored on deck, which many offshore and HSE-controlled vessels require.



Mechanical fuel injection

Mechanical direct injection with twin fuel filters. There are no electronic engine sensors or engine software.



Remote control for console boats

For console boats there is a remote control kit: side-mount control box, throttle and shift cables, steering wheel and helm.



Common lower-unit sizes

Impellers, seals and propellers follow common outboard sizes.

Our parts commitment

Order confirmation	Parts orders are confirmed within 24 hours.
Shipping	Parts orders leave the factory within 7 working days.
Discontinued models	When a model is discontinued, we keep supplying its parts for at least 3 more years.
Documents	English operation and maintenance manual and quick-start sheet with every engine.
Technical help on WhatsApp	Send the model, serial number and a photo. Message us before taking anything apart.

Find a part by its shape and position on the engine drawing, tick it and send us the list: www.outboardx.com

Service kits

200-hour service kit or fleet spare parts confirmed by engine model and quantity, shipped with the engine.

Remote control kit

Side-mount control box with key start, steering wheel and helm, push-pull cables cut to your console, 25 L diesel tank and fuel line.

Heavy-load propeller

Smaller-pitch propeller for loaded fishing, cargo and displacement hulls, so the engine reaches its rated rpm.



Factory tank test: Every engine runs under load before packing.

Air-cooled diesel · 10–40 HP

D10A · D15A · D20A · D25A · D30A · D40A

For shallow, muddy water

No raw-water cooling intake to clog in silty rivers and shallow coastal water. Simple engines for small river and coastal boats. Long 900 mm shaft as standard.



Specification	D10A	D15A	D20A	D25A	D30A	D40A
Power	10 HP / 7.36 kW	15 HP / 11 kW	20 HP / 14.7 kW	25 HP / 18.4 kW	30 HP / 22.1 kW	40 HP / 29.4 kW
Engine type	4-stroke diesel, 1 cylinder	4-stroke diesel, 1 cylinder	4-stroke diesel V2	4-stroke diesel V2	4-stroke diesel V2	4-stroke diesel V2
Displacement	406 cc	486 cc	840 cc	870 cc	997 cc	1080 cc
Full-throttle range	3600–4000 rpm					
Fuel consumption	1.8 L/h	2.5 L/h	3.0 L/h	3.0 L/h	3.6 L/h	3.8 L/h
Fuel delivery	Direct injection					
Fuel tank	5 L	5 L	20 L	20 L	20 L	20 L
Starting	Manual	Manual	Electric (key)	Electric (key)	Electric (key)	Electric (key)
Cooling	Air					
Exhaust	Muffler					
Steering	Tiller; remote optional					
Shaft length	900 mm					
Gear ratio / shift	1.92 : 1 / F-N-R					
Propeller	13 1/8 × 15 in, 3-blade					
Dimensions (mm)	580 × 400 × 1100	580 × 400 × 1100	1260 × 650 × 460	1260 × 650 × 460	1260 × 650 × 460	1650 × 680 × 550
Dry weight	74 kg	98 kg	115 kg	115 kg	125 kg	129 kg

Fuel: Ordinary diesel or marine gas oil (ISO 8217 DMA / ASTM D975 No. 1-D, No. 2-D). Not heavy fuel oil. Engine oil: API CD or better; SAE grade by temperature (see manual).

Electric outboards · 3–15 kW

Quiet electric outboards for tour boats and protected waters

For operators on lakes, reservoirs, parks and harbours where engine noise and exhaust are unwelcome or not allowed. No fuel, no oil changes, and a quiet ride for passengers.

The outboards are supplied without a battery. We recommend a lithium pack for each model and can quote a matching battery package with the order. Cowling graphics, colours and shaft length can be adapted for dealers and boat builders.



Specification	E3KW	E6KW	E15KW
Power	3 kW	6 kW	15 kW
Voltage	48 V	72 V	96 V
Motor	Permanent-magnet brushless		
Cooling	Water		
Motor speed	5500 rpm		
Recommended battery	48 V, 100 Ah or more	72 V, 200 Ah or more	96 V, 200 Ah or more
Typical run time	About 2 h with 48 V 100 Ah lithium	About 3 h with 72 V 250 Ah lithium	About 1.2 h with 96 V 200 Ah lithium
Battery level indicator	Yes		
Gear shift	Stepless, F-N-R		
Cruise control	One-touch		
Steering / starting	Tiller / switch start		
Tilt	Manual		
Shaft	Short, for transoms up to 450 mm; long optional		
Ingress protection	IP55		
Propeller	9 in, 3-blade		
Dimensions (mm)	1110 × 710 × 390	1220 × 700 × 390	1220 × 700 × 390
Dry weight	31 / 35 kg	46 / 50 kg	52 kg

Ask on WhatsApp | View on our website

Inboard diesel and sterndrive

For shipyards building boats beyond the 40 HP outboard class.





ID860 · Inboard diesel · 111–162 kW

Maximum power	162 kW
Minimum power	111 kW
Maximum torque	860 N·m at 1400–1600 rpm
Engine type	Inline 6-cylinder, 4-stroke diesel
Valves	2 per cylinder
Bore × stroke	105 × 130 mm
Displacement	6.75 L
Aspiration	Turbocharged and intercooled
Compression ratio	18 : 1
Fuel system	Electronically controlled high-pressure common rail
Emission standard	EU Stage 3A / 2
Dimensions (mm)	1256 × 570 × 970
Dry weight	620 kg

SD420 · Sterndrive · 59–139 kW

Engine power range	59–139 kW
Maximum torque	420 N·m
Engine speed	2800 rpm and above
Gear ratio	1.39 : 1
Propeller input speed	2800–4500 rpm
Gear shift	F-N-R
Alternator	24 V
Cooling	Gear oil, internal circulation
Gear oil	GL-5 80W-90
Steering	Hydraulic power assistance
Steering angle	35°
Tilt angle	62°
Transom angle	12°
Maximum propeller diameter	15 in
Dimensions (mm)	1200 × 1105 × 443
Dry weight	115 kg

Dimensions are approximate and refer to the basic engine or drive without optional equipment.

Ask us about your boat

Contact the factory

Step 1

Tell us about the boat

Length, hull, load, transom height and destination. Or just the model you want.

Step 2

Recommendation & quote

We confirm model, shaft, propeller and controls, and quote FOB or CIF with a spare-parts list.

Step 3

Build & tank test

Your engines are assembled, run under load in the test tank and packed in steel frames.

Step 4

Shipping

LCL or full container from Shanghai or Nantong, with manuals, parts and documents.

Talk to us directly

WhatsApp	+86 195 2126 7986 Messages only. We reply in English.
Email	info@outboardx.com
Website	www.outboardx.com
Working hours	Mon–Fri, 9:00–17:00 China time (UTC+8)
Factory	Nantong Runsun Industry Co., Ltd. Nantong, Jiangsu, China

Scan or tap

WhatsApp

Website

Ask on WhatsApp

Email us

Helpful to include

- Boat length, hull type and normal load
- Transom height (for shaft length)
- Tiller or remote steering
- Destination port and quantity

If you would like to see a particular model running, ask us for a video call from the workshop.

Specifications and images are for reference and may change without notice. Final configuration depends on the options selected.