



# TOHATSU

## outboards

The modern outboard motor is generally called upon to fill one of two roles -that of a leisure craft engine or that of a commercial engine used in such industries as fishing or transport. Because of this, it must have the ease of handling, speed, and attractive design to appeal to the leisure boater. For commercial applications, on the other hand, quick starts, dependability, durability, ease of maintenance and energy efficiency are the main concerns.

The new functions and mechanism designed into the new TOHATSU MW50D2(50PS) makes it the outboard motor to satisfy the needs of both types of applications.



### Heavy duty Engine **MW50D2** for Fishing and Commercial uses

- ◆ Themostatically Controlled Coolings System
- ◆ Loop Charged Induction and Dual Swirl Combustion Chamber (DSCC) Heads
- ◆ High Capacity Water Pump, with Chrome Plated Housing



- ◆ Large Anti-Cavitation Plate



- ◆ Large Zinc Anode on Gear Case



- ◆ Heavy Duty Lower Gear Case

## OUTSTANDING FEATURES

### 1. HEAVY DUTY LOWER GEAR CASE

To satisfy the needs of severe duty commercial applications, Tohatsu has applied a new larger lower gear case with heavy duty gears and bearings. This new dependable engine will exceed the standards expected from fishermen and other commercial operations.

### 2.HIGH CAPACITY WATER PUMP, WITH CHROME PLATED HOUSING

The new larger high output water pump features chrome plated stainless steel housing for durability, with larger capacity, to meet all demands. This design is more durable in situations where muddy conditions are experienced.

### 3.LOOP CHARGED INDUCTION AND DUAL SWIRL COMBUSTION CHAMBER (DSCC) HEADS

This system realized easy starting of the engine, stable trolling at low speed operations, better acceleration and lower fuel consumption.

Thanks to this, the engine operators can sail the boats easier and faster to the destinations with less charges for fuel free from care.

### 4.THERMOSTATICALLY CONTROLLED COOLING SYSTEM

The thermostat will maintain proper running temperatures throughout all speed and load demands, insuring higher engine performance and durability.

### 5. LARGE ZINC ANODE ON GEAR CASE

This large anode will help protect the engine from electrolytic corrosion.

### 6. LARGE ANTI-CAVITATION PLATE

This large splash plate prevents propeller ventilation, enhances boat performance, and minimizes splash especially at higher speeds.

## SPECIFICATIONS

Model	MW50D <sub>2</sub> F	MW50D <sub>2</sub> EPO
Overall Length, mm (approx.)	1107	630
Overall Width, mm (approx.)	381	340
Overall Height, mm (approx.)	1413 / 1540	
Transom Height, mm L / UL	550 / 677	
Weight, Kg (approx.) L / UL	79 / 80.5	85 / 86.5
Max. Output, KW (PS)	29.4 (50)	
Full Throttle Speed range, rpm	5,000 - 5,700	
No. of Cylinder	3	
Piston Displacement, ml	697	
Bore & Stroke, mm	68×64	
Exhaust System	Through hub exhaust	
Lubrication	Premixed Fuel	Auto Mixing
Fuel Mixing Ratio	50 : 1	50 : 1 - 120 : 1
Cooling System	Forced water-cooling	
Starting System	Manual	Electric
Steering	Tiller Handle	Remote Control
Ignition System	Flywheel Magneto C.D. Ignition	
Spark Plugs	NGK B8HS-10 / BR8HS-10 or Champion L-78C / RL-78C	
Alternator	12V,130W (12V,11A)	
No. of Trim Adjustments	6	
Gear Reduction Ratio	12 : 23	



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