



**TOHATSU**

Feel the Wind™

 **TOHATSU**

**OUTBOARD  
MOTORS**



# OUR MISSION

The boat is a kindred spirit to the sea, the river, and the lake. Boats immerse you in nature and navigate you to unforgettable experiences. And the outboard motor helps make all of this possible.

Outboard motors are about a whole lot more than just the specs. A truly great motor delivers it all—performance, safety, and the ultimate ease of use. That’s why we never stop asking ourselves the essential questions about what makes a great engine. We’ve been doing that since 1922, when aviation engineer Masuzo Takata founded Tohatsu.

Time and again, Tohatsu innovations have made waves that change the world. Take, for example, the Tohatsu motorcycle, which dominated the industry with its compact engine. Or Tohatsu outboard motors, built with our one-of-a-kind direct injection technology, which has revolutionized environmental performance.

We are uncompromising in our pursuit of outboard motors that are both durable and as light as possible. We pursue the ultimate in quality to deliver an inspirational engine experience. This is our unwavering promise: to deliver a more refined and stimulating boating experience.



We aim to deliver the ultimate boating experience by providing outboard motors that are simple, easy to use and of outstanding quality. Simpliq™ Technology embodies the Tohatsu technological philosophy. Named for its integration of simplicity, interface and quality, Simpliq™ Technology is the result of continuous technological innovation fueled by the pursuit of nothing less than the very best.

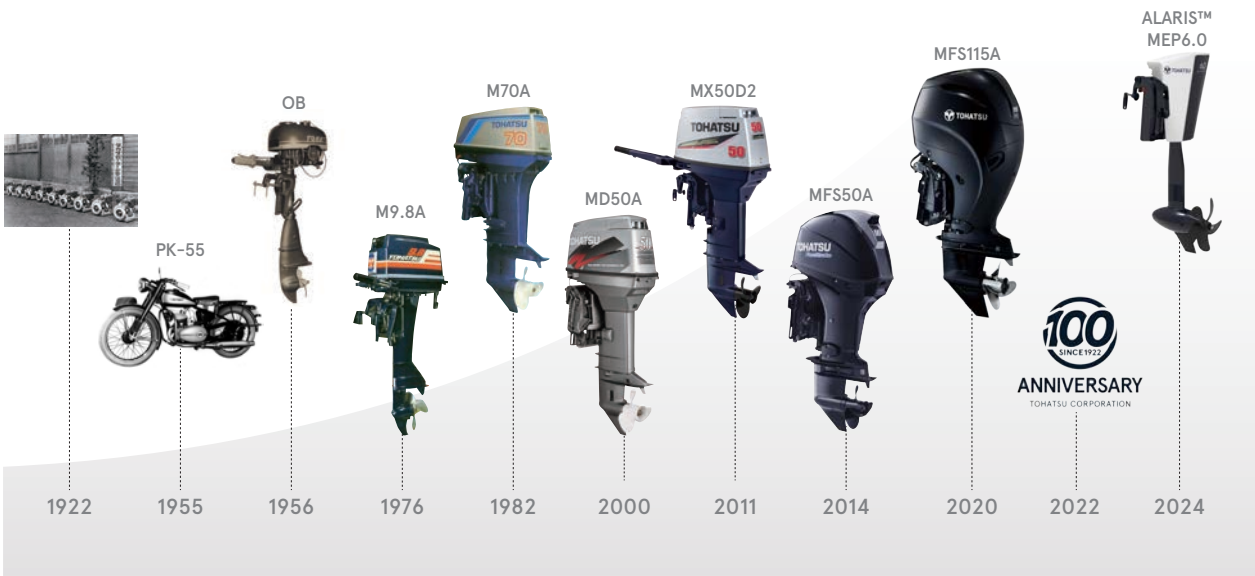


Our job begins by understanding our customer's needs. We spare nothing to bring ingenuity and innovation to delivering safer, more comfortable boating for our customers. We provide our customers with personal support for their Tohatsu outboard motors to ensure the best boating experience.



# OUR HISTORY

The history of Tohatsu began since 1922 when the development of small gasoline engines has started. In 1956, Tohatsu has succeeded in producing the first outboard motor in Japan, the "OB". Since then, Tohatsu Outboards have been serving various marketplaces fulfilling numerous different demands with reliable products; two-stroke, four-stroke, and TLDI® and electric outboard motors, and always seeking for ways to improve the quality of products & services.



# OUR LOGOTYPE



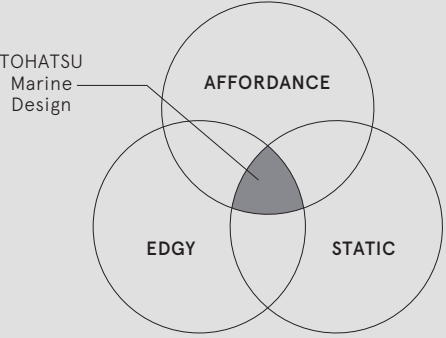
The Tohatsu Blue Wings evokes the image of the sea hawk, a bird that soars over the oceans of the world. The circle represents the sea. The sea hawk's wings which transcend it symbolize Tohatsu innovation, the pioneering ideas that inspire action that transcends the conventional.

# OUR TAGLINE

Feel the Wind™

Wind is the flow of life. At times, it can even change the world. We want people everywhere to feel the exhilarating wind coming off the wings of Tohatsu. We pour our passion into every detail to provide people around the world with a smarter, more exciting boating experience. See it. Hear it. Feel the wind.

# OUR DESIGN



**TOHATSU DESIGN PHILOSOPHY**  
Based on Tohatsu's mission, to deliver a smarter and more exciting boating experience. Tohatsu Design Philosophy for marine products consists of "Affordance", "Edgy" and "Static".  
The above 3 elements are the key components of Tohatsu Design Platform.



**AFFORDANCE**  
Intuitively clear as it is a conversation between things and persons  
Organized elements and thoughtful comfortability



**EDGY**  
Narrowing peak for impressive details  
Aesthetic appreciation that fits the times



**STATIC**  
Controlled and calm appearance that harmonize with the nature environment  
Genuine expression with simplicity and efficiency

# HIGH POWER SERIES

## BFT250/225/200 250 – 200 ps

The BFT250/225/200 provides a broader torque range and smoother power throughout the engine’s operating range. With an innovated exterior, the improvement of corrosion resistance and water intrusion makes BFT250/225/200 the right choice.

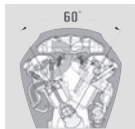


## BFT150 150 ps

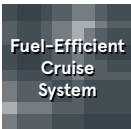
Both sleek and powerful, the BFT150 is a good match for pleasure or commercial use. The Variable Valve Timing and Lift Control system provides a superior combination of power, torque and fuel efficiency.



### TECHNOLOGY



**Large Displacement V6**  
A powerful compact 24 valve Single Overhead Cam (SOHC) design. The narrow V6 design offers top performance and durability as well as great fuel economy.



Fuel economy is optimized at cruising speeds by allowing combustion at the best air/fuel mixture. This offers up to 30% less fuel consumption than the competition.



High output alternator that produces 90 amp alternator with 60 charging amps.



Variable Valve Timing & Lift Electronic Control system provides power where and when you need it. This gives you boarder, flatter torque curve and smooth power delivery throughout the engine’s operating range. The result is a superior combination of low end torque, top end performance, and fuel efficiency.



The Maximum Acceleration System improves acceleration and performance at low speeds. When there is a quick movement of the throttle, the system is activated advancing the ignition timing curve quickly. This offers improved holeshoot and quicker planing performance.



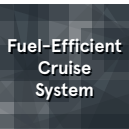
TOCS (Tohatsu Onboard Communication System) offers communication between standard onboard electric devices and the outboard by simple plug and play connections.



### TECHNOLOGY



BFT150D has a dynamic motion form with high quality and progressiveness.



Fuel economy is optimized at cruising speeds by allowing combustion at the best air/fuel mixture. This offers up to 30% less fuel consumption than the competition.



High output alternator that produces 90 amp alternator with 60 charging amps.



Variable Valve Timing & Lift Electronic Control system provides power where and when you need it. This gives you boarder, flatter torque curve and smooth power delivery throughout the engine’s operating range. The result is a superior combination of low end torque, top end performance, and fuel efficiency.



The Maximum Acceleration System improves acceleration and performance at low speeds. When there is a quick movement of the throttle, the system is activated advancing the ignition timing curve quickly. This offers improved holeshoot and quicker planing performance.



TOCS (Tohatsu Onboard Communication System) offers communication between standard onboard electric devices and the outboard by simple plug and play connections.





MID-RANGE SERIES

MFS140  
140 ps

Superior performance  
now available in counter  
rotation

Unique 4-2-1 Performance Tuned Exhaust manifold has been designed to maximize low end torque and acceleration. Best in class torque to displacement ratio creates excellent performance for all styles of boats from light to heavy weight. The 140ps is now available in counter rotation.



MFS115/90/75  
115 – 75 ps

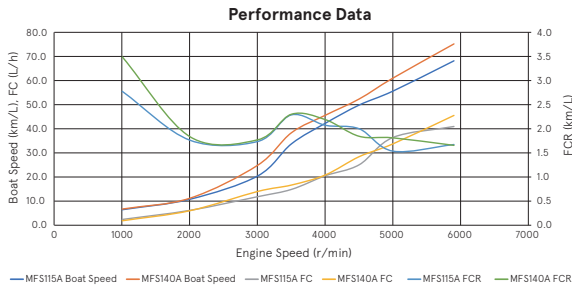
The MFS75/90/115 design is built on our best-selling models the MFS40/50/60 and the MFS9.9/15/20. The legacy of our top performing and most reliable engines has been passed on, with a dynamic design and sophisticated details, to our all new MFS75/90/115 4-stroke outboard with industry-first innovative features and characteristics.



TECHNOLOGY

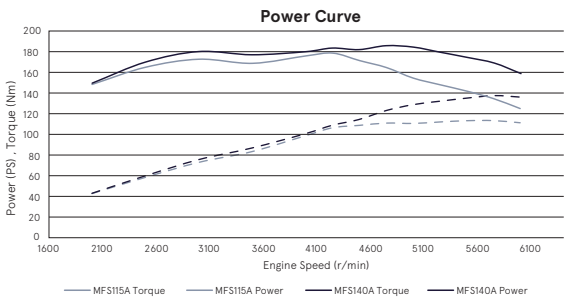
OUTSTANDING TORQUE

Industry first 4-2-1 Performance Tuned Exhaust system provides outstanding torque performance, top end speed, acceleration, and exceptional fuel economy. On certain boat applications, the MFS140A will perform similarly when compared to heavier 150ps outboards that weigh as much as 45 kg more.



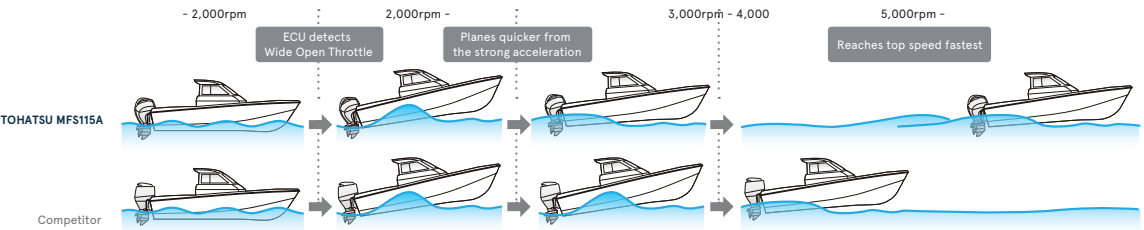
PERFORMANCE ORIENTED

Tohatsu's revolutionary MFS115A design has expanded to the new MFS140A. With outstanding torque, increased durability, optimized weight and smooth operation, our newest model lineup provides top performance you can only experience with Tohatsu.



SMOOTH OPERATION

A new standard set for a more exciting boating experience by Simpliq™ Technology. With its fined-tuned ECU programming, MFS75/90/100/115/140 are designed to improve acceleration when needed in order to get the boat to plane quicker. When you throttle to wide open, the ECU recognizes it and ignites in all four cylinders at the same time. Simultaneously, the ECU optimizes and supplies adequate air & fuel which makes air/fuel mixture more suitable for rapid acceleration to generate higher torque. The higher the torque you have, the stronger the acceleration you will get, resulting in enhanced hole shots and thus, quicker planing. Also, Upper and Lower Mounts, and the Gear Case are optimized for direct steering response & maneuverability, and greater stability.

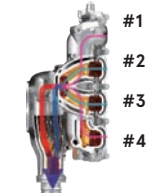


Simpliq™  
Technology



TOCS (Tohatsu Onboard Communication System) offers communication between standard onboard electric devices and the outboard by simple plug and play connections.

4-2-1 PERFORMANCE TUNED EXHAUST

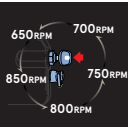


- #1 The length of exhaust passage for each cylinder is equal length to promote best performance throughout the entire RPM range.
- #2 The exhaust gas from cylinders #1 and #4 combine to one and that of cylinders #2 and #3 combine to one.
- #3 Those two passages merge to create the best exhaust flow by creating extra suction to help pull the exhaust from the engine.
- #4 This design eliminates the interference of exhaust gas compared to a regular 4 to 1 exhaust manifold.
- This is the first outboard motor to embrace this industry leading design.

Scan for video ▶▶▶



MFS75/90/115/140 have a unique SOHC-4V design in its class where competitors are either SOHC-2V or DOHC-4V. Spark plugs are strategically placed in the center of the each combustion chamber for the most efficient combustion with optimal heat conduction which results in strong running and fuel efficiency.



Idling and trolling speed can be adjusted by pressing the key switch on your remote control box or multi-function tiller handle. (from 650 to 850 RPMs at 5-steps)



With the even-length Intake Manifold, 4-2-1 Performance Tuned Exhaust, and fine-tuned ECU, MFS75/90/115/140 provide exhilarating and performance-inspired engine sound. Also within the large capacity Idle Port, sounds reflect off each other to dampen the exhaust flow which contributes to the lowest sound at idle.



Counter-Rotation  
The combination of standard and counter rotation models improves maneuverability and stability in twin MFS140 applications.





# MFS60

## 60 ps

Tohatsu is determined to provide an engine to back you up on all your adventures. Armed to deliver a powerful ride, the 60ps EFI four stroke not only offers accelerating speed while using less fuel, but provides the lightest weight in its class to muscle your boat applications without sacrificing performance and accessibility to hard to reach places.



# MFS50/40

## 50 - 40 ps

With a starting weight of 96.5 kg, the MFS50/40 is not only one of the lightest in it's class, but delivers the performance you expect out of your outboard. The newly designed gear case offers you a lower gear ratio for improved hole shot and top end speed.



### TECHNOLOGY



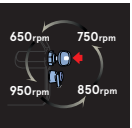
SOHC with unique 9-Valve Design with roller rocker arms provide minimal friction offering quicker throttle response more durable against wear and tear.



Outstanding fuel economy, without sacrificing performance.



Sleek design with monochrome tilt handle and mirror pane decals. Two color options: Aqua Marine Blue and Beluga White.



Idling and trolling speed can be adjusted by pressing the key switch on your remote control box or multi-function tiller handle. (from 650 to 950 rpm's)



Lightest weight in its class, starting under 98.5 kg.



High output alternator produces 21 amp making it one of the largest capacity charging system in it's class.



TOCS (Tohatsu Onboard Communication System) offers communication between standard onboard electric devices and the outboard by simple plug and play connections.



### TECHNOLOGY



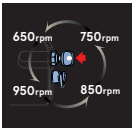
Sleek design with two color options: Aqua Marine Blue and Beluga White.



Iridium spark plugs provide maximum throttle response, enhanced combustion, and longer plug life.



Lightest weight in its class, starting under 96.5 kg.



Idling and trolling speed can be adjusted by pressing the key switch on your remote control box or multi-function tiller handle. (from 650 to 950 rpm's)



Outstanding fuel economy in its class. Why do you use more gasoline, if you have a choice not to?



High output alternator produces 21 amp making it one of the largest capacity charging system in it's class.



TOCS (Tohatsu Onboard Communication System) offers communication between standard onboard electric devices and the outboard by simple plug and play connections.





# MFS30/25

30 – 25 ps

We have achieved the lightest weight in its class and improved reliability, without sacrificing performance. The MFS25/30D is designed for a wide variety of applications, and is available in multiple configurations to fit your boating needs. MFS30DW (Beluga White model) is available.



## PORTABLE SERIES

# MFS20/15/9.9

20 – 9.9 ps

These compact yet powerful engines have all the features you would expect to see on larger outboards. Such as battery-less EFI technology, multi-function tiller handle\*, and a large displacement providing outstanding power. All while maintaining lightest in it’s class, quiet operation, and ease of portability. \*Tiller models only

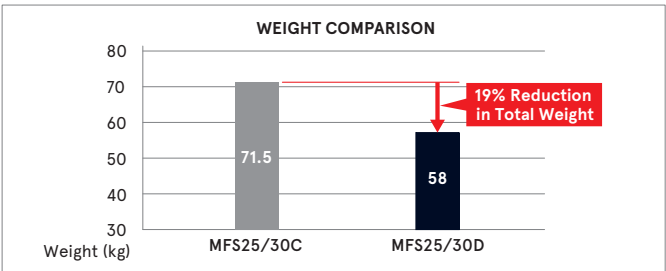


## TECHNOLOGY

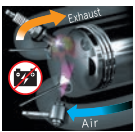
### Lightest weight 3-cylinder 25/30ps

MFS25/30D is the lightest in its class. By redesigning the crankshaft and intake manifold, we have reduced the weight of each component by 37% and 48% respectively. With a total weight reduction of 13.5kg, the MFS25/30D is 19% lighter than the previous version.

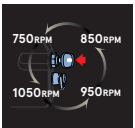
\*Weight Specification is based on the lightest version.



Tohatsu’s newly designed gear case has been given a more torpedo-like shape for optimal hydrodynamic flow, reducing water drag and improving performance – from planing to top end speed. A gear ratio of 2.17:1 optimizes low end torque and the ability to turn a wider variety of propellers for many boating applications.



Advanced Battery-less Electronic Fuel Injection (EFI) for smoother operation, easier starting and greater fuel efficiency in any condition.



Idling and trolling speed can be adjusted by pressing the key switch on your remote control box or multi-function tiller handle. (from 750 to 1050 RPMs)



TOCS (Tohatsu Onboard Communication System) offers communication between standard onboard electric devices and the outboard by simple plug and play connections.



## TECHNOLOGY



Sleek design with two color options: Aqua Marine Blue and Beluga White.



Lightest weight in its class and compact design for easier maintenance.



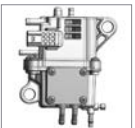
Advanced Battery-less Electronic Fuel Injection (EFI) for smoother operation, easier starting and greater fuel efficiency in any condition.



Multi-Function Tiller Handle offers the Stop Switch, Front Shift, Friction Adjusting Screw and Power Tilt Switch (PTS: on power tilt models only) integrated into the tiller handle for convenience.



A high quality, easy-to-remove and drain water & fuel separator that has a red ring that floats to identify if water is in the fuel system.



VST (Vapor Separator Tank) has been designed to integrate the High Pressure Fuel Feed Pump and Fuel Cooler inside the VST, making it a very compact lightweight integrated fuel system. This contributes to reducing the weight and offering ease of maintenance.





MFS9.9/8  
9.9 – 8 ps

Utilizing industry-first, battery-less EFI technology, the MFS9.9CY/8C are the lightest outboards in their class along with a large displacement making outstanding power. Those advantages along with ultra-quiet operation makes these models the best choice in any application.



MFS6/5/4  
MFS6 SP  
6 – 4 ps

These portable best-seller have been upgraded by newly designed top and bottom cowls based on Tohatsu Design Philosophy for Marine Products with ergonomically designed front and back carrying handles. Now you can store your engine on 3 different positions without worrying about oil spillage.  
\*Please refer to Owner's Manual for storage and transportation.



TECHNOLOGY



Lightest weight in its class, starting at just under 38.5 kg.



Advanced Battery-less Electronic Fuel Injection (EFI) for smoother operation, easier starting and greater fuel efficiency in any condition.



Optional power tilt available on certain models.



A high quality, easy-to-remove and drain water & fuel separator that has a red ring that floats to identify if water is in the fuel system.

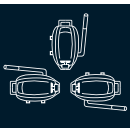
TECHNOLOGY



Top and bottom cowls are newly designed based on Tohatsu Design Philosophy of marine products; Affordance, Edgy and Static.  
Available color options:  
– Aqua Marine Blue: MFS4, MFS5, MFS6  
– Beluga White: MFS6



Ergonomically designed new Large Front & Back Carrying Handles which allow easier carry and transportation from having one handle positioned slightly below another.



3-way storage positions (Port, Front, and Starboard side down) without worrying about oil spill.  
\*Please refer to Owner's Manual for storage and transportation.



Front mounted shift lever for forward-neutral-reverse is an industry first in its class.



SP model is designed specifically for sail boaters. This outboard is available in a "long" and "Ultra-long" shaft with high thrust propeller and 60W(12V, 5A) charging system.





# MFS3.5/2.5

3.5 – 2.5 ps

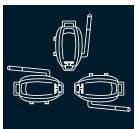
These portable best-sellers have been upgraded with optimized top and bottom cowls based on the Tohatsu Design Philosophy for marine products of Simpliq™ with ergonomically designed front and back carrying handles. Now you can store your engine in 3 different positions without worrying about oil spillage.  
\*Please refer to owner's manual for storage and transportation guidelines.



## TECHNOLOGY



Top and bottom cowls are designed based on Tohatsu's Design Philosophy of marine products: Affordance, Edgy and Static.



3-way storage positions (port, front, and starboard side down) without worrying about oil spillage.  
\*Please refer to owner's manual for storage and transportation guidelines.



Ergonomically designed large front & back carrying handles that allow easier carry and transportation with one handle positioned slightly below the other.



Forward-neutral shifting with 360° steering.





## TWO STROKE SERIES

### MX50/40 50 - 40 ps

Globally well reputed MX50/40D3 have been upgraded for its further possibilities. These models are the best choice for the commercial fisherman and of course for the pleasure boaters as well. Experience the brilliantly modified EverRun Model.



### M50/40 50 - 40 ps

Tohatsu 2-strokes are world famous for their reliability, terrific-horsepower-to-weight ratios and top-of-the-line performances. These in-line 3-cylinder outboards provide all of the extra features you want and need without compromising Tohatsu's well-known quality. The M50/40D2 will give you performance and reliability for your long days of boating pleasure.



### MX18/15 18 - 15 ps

Tohatsu's best-seller has been upgraded. More power and more durability are achieved without changing its weight. This is the ultimate option for the commercial-users. Experience the new Power, Durability, and Reliability of Tohatsu EverRun.



### M18/15/9.9 18 - 9.9 ps

Tohatsu gives boaters exactly what they need in mid-range portables: more power and less weight. Whatever your boating application, there are the ultimate outboards for convenience, reliability and portability.



### MX30/25 30 - 25 ps

The highly evaluated M30/25H were upgraded as MX30/25H for further durability. These models designed to survive the tough operating environment show the best performance in any commercial usage.



### M30/25 30 - 25 ps

The M30/25H have a well-earned reputation for incredible power, all at manageable weights. A wide range of model line-up including jet drive model (M25H JET) will be suitable for every purpose.



### M9.8/8 9.8 - 8 ps

M9.8/8, which have been over 20 years since its launch, are still one of the best-seller of Tohatsu and the best choice in this output range. A refined light-weight design and enough output are satisfying all pleasure boaters.



### M5/4/3.5 5 - 3.5 ps

All of these truly portable models offer an incredible horsepower-to-weight ratio. These are the ultimate outboards for convenience and portability. Whatever you're going, there's a little Tohatsu to take with you.





# GENUINE TOHATSU PARTS AND ACCESSORIES



## Control Boxes

Our Side, Flush, Top Single, and Top Twin Mount control boxes are all designed to provide remote throttle and shift control for Tohatsu outboards. Tohatsu offers a wide range of control boxes, mounting kits, and remote conversion kits to accommodate almost any application. For a complete list of kits and options, please contact your local Tohatsu dealer.

## Lineup

- Side Mount Control
- Flush Mount Control (Hull and/or Center Console)
- Single Top Mount (Binnacle) Control
- Dual Top Mount (Binnacle) Control



## TOCS 4.3 inch LCD Display

The TOCS (Tohatsu Onboard Communication System) 4.3 inch LCD Display connects to the CAN bus and communicates directly with the engine's ECU. Engine data, fault codes and alarms are displayed on the LCD display. Fits a standard 3 3/8" (85mm) instrument dash hole which makes this display the perfect drop-in replacement for your current tachometer.

Features that this display can indicate;

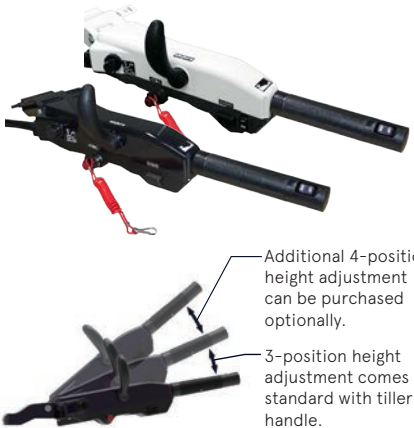
- Engine RPM
- Engine Operating Temperature
- Engine Battery Voltage
- Fuel Consumption
- Tilt/Trim Gauge (optional harness needed)
- Total Engine Operating Hours
- Multiple Fuel Tank Levels
- Course/Speed Over Ground (optional GPS unit needed)
- Various warnings
- Self Diagnostic System

\*For USA, CANADA, EU+EEA, AUSTRALIA AND NEW ZEALAND ONLY



## Gauges

A variety of Tohatsu gauges are available through your local dealer; hour meters, volt meters, water pressure meters, GPS speedometers, tilt/trim gauges, and tachometers. Manufactured to Tohatsu's precision standards.



## Multi Function Tiller











The multi-function tiller handle features an ergonomically designed shift lever for easy and convenient shifting as well as a longer throttle grip with 110 degrees rotation for easier maneuverability. All controls on the new multi-function tiller are conveniently located on the handle for easy access and control. More specifically, the gear shift, throttle control, trim switch, safety lanyard cord, and electric start key switch are all integrated in the tiller handle. Available for MFS25-140














SPECIFICATIONS

	HIGH POWER SERIES				MID-RANGE SERIES									
Model	BFT250	BFT225	BFT200	BFT150	MFS140	MFS115	MFS100	MFS90	MFS75	MFS60	MFS50	MFS40	MFS30	MFS25
														
No.of Cylinder	6				4						3			
Output	250 ps (183.9 kw)	225 ps (165.5 kw)	200 ps (147.1 kw)	150 ps (110.3 kw)	140 ps (103.0 kw)	115 ps (84.6 kw)	100 ps (73.6 kw)	90 ps (66.2 kw)	75 ps (55.2 kw)	60 ps (44.1 kw)	50 ps (36.8 kw)	40 ps (29.4 kw)	30 ps (22.1 kw)	25 ps (18.4 kw)
Displacement	3,583 cm <sup>3</sup> (218.6 cu in)			2,354 cm <sup>3</sup> (143.6 cu in)	1,995 cm <sup>3</sup> (121.6 cu in)						866 cm <sup>3</sup> (52.8 cu in)	500 cm <sup>3</sup> (30.5 cu in)		
Bore x Stroke	89 x 96 mm (3.50 x 3.78 in)			87 x 99 mm (3.43 x 3.90 in)	84 x 90 mm (3.30 x 3.55 in)						70 x 75 mm (2.76 x 2.95 in)	61 x 57 mm (2.4 x 2.25 in)		
Max. RPM Range	5,300 - 6,300 r/min	5,000 - 6,000 r/min			5,150 - 5,850 r/min						5,000 - 6,000 r/min		5,500 - 6,500 r/min	5,000 - 6,000 r/min
Starting	Electric												Electric & Manual or Manual	
Control Type	Remote Control				Remote Control or Tiller Handle									
Gear Ratio	2.00:1			2.14:1	2.08:1								2.17:1	
Propeller Rotation	Standard-rotation or Counter-rotation					Standard-rotation								
Propeller Selection Range	15" - 27"			13" - 25"	9" - 21"						7" - 17"		8" - 14"	
Transom Height	25"		20", 25"					20"	20", 25"	20"	15", 20"			
Weight*	286 kg (631 lbs)		279 kg (615 lbs)	221 kg (487 lbs)	178 kg (392 lbs)						100 kg (220 lbs)	96.5 kg (213 lbs)	58 kg (128 lbs)	
Alternator Output	****12V, 720W, 60A			12V, 660W, 55A	12V, 492W, 41A						12V, 300W, 25A		12V, 210W, 17.5A	
Color Option***	AQ				AQ & BW		AQ			AQ & BW				AQ







Specifications are subject to change without notice.  
\*Weight Specification is based on the lightest version.    \*\*Alternator on Certain Models    \*\*\*AQ: Aqua Marine Blue, BW: Beluga White    \*\*\*\*D.C. Output

	TWO STROKE SERIES									
Model	M50	M40	M30	M25	M25 Jet	M18	M15	M9.9	M9.8	M8
										
No.of Cylinder	3		2							
Output	50 ps (37 kw)	40 ps (29.4 kw)	30 ps (22.1 kw)	25 ps (18.4 kw)	Jet Power 25 ps (18.4 kw)	18 ps (13.2 kw)	15 ps (11 kw)	9.9 ps (7.3 kw)	9.8 ps (7.2 kw)	8 ps (5.9 kw)
Displacement	697 cm³ (42.5 cu in)		429 cm³ (26.2 cu in)			294 cm³ (17.9 cu in)	247 cm³ (15.1 cu in)		169 cm³ (10.3 cu in)	
Bore x Stroke	68 x 64 mm (2.58 x 2.52 in)		68 x 59 mm (2.68 x 2.32 in)			60 x 52 mm (2.36 x 2.05 in)	55 x 52 mm (2.17 x 2.05 in)		50 x 43 mm (1.97 x 1.69 in)	
Max. RPM Range	5,150 – 5,850 r/min	5,000 – 5,700 r/min	5,150 – 5,850 r/min	5,000 – 6,000 r/min	5,150 – 5,850 r/min	5,200 – 5,800 r/min		4,500 – 5,300 r/min	5,000 – 6,000 r/min	4,500 – 5,500 r/min
Starting	Electric & Manual or Manual				Manual	Electric & Manual or Manual	Manual		Electric & Manual or Manual	Manual
Control Type	Remote Control or Tiller Handle				Tiller Handle	Remote Control or Tiller Handle	Tiller Handle			
Gear Ratio	1.85:1		1.92:1		1:1	1.85:1			2.08:1	
Propeller Rotation	Standard-rotation									
Propeller Selection Range	7" – 15"		8" – 14"		–	6" – 11.5"			5" – 9.5"	
Transom Height	15", 20"				20"	15", 20"				
Weight*	72 kg (159 lbs)		51 kg (112 lbs)		59 kg (130 lbs)	41 kg (90 lbs)			26 kg (57 lbs)	
Alternator Output	12V, 132W, 11A		12V, 84W, 7A						12V, 84W, 7A	Opt. 12V, 84W, 7A
Color Option***	AQ									

Specifications are subject to change without notice.  
\*Weight Specification is based on the lightest version.    \*\*Alternator on Certain Models    \*\*\*AQ: Aqua Marine Blue, BW: Beluga White    \*\*\*\*D.C. Output

	PORTABLE SERIES										
Model	MFS20	MFS15	MFS9.9	MFS9.9	MFS8	MFS6 SP	MFS6	MFS5	MFS4	MFS3.5	MFS2.5
											
No.of Cylinder	2					1					
Output	20 ps (14.7 kw)	15 ps (11 kw)	9.9 ps (7.3 kw)	9.9 ps (7.3 kw)	8 ps (5.9 kw)	6 ps (4.4 kw)		5 ps (3.7 kw)	4 ps (2.9 kw)	3.5 ps (2.6 kw)	2.5 ps (1.8 kw)
Displacement	333 cm <sup>3</sup> (20.3 cu in)			209 cm <sup>3</sup> (12.8 cu in)		123 cm <sup>3</sup> (7.5 cu in)				86 cm <sup>3</sup> (5.2 cu in)	
Bore x Stroke	61 x 57 mm (2.4 x 2.24 in)			55 x 44 mm (2.15 x 1.75 in)		59 x 45 mm (2.32 x 1.77 in)				55 x 36 mm (2.17 x 1.42 in)	
Max. RPM Range	5,400 - 6,100 r/min			5,300 - 6,200 r/min		5,000 - 6,000 r/min		4,500 - 5,500 r/min		5,000 - 6,000 r/min	4,500 - 5,500 r/min
Starting	Electric & Manual or Manual					Manual					
Control Type	Remote Control or Tiller Handle					Tiller Handle					
Gear Ratio	2.15:1			2.08:1		2.15:1					
Propeller Rotation	Standard-rotation										
Propeller Selection Range	6" - 11.5"			5" - 9.5"		6" - 9"				4.5" - 7"	
Transom Height	15", 20"					20", 25"	15", 20"	15", 20"			
Weight*	43 kg (95 lbs)			38.5 kg (85 lbs)		26 kg (57 lbs)	25.5 kg (56 lbs)	25.5 kg (56 lbs)	26 kg (57 lbs)	18.5 kg (41 lbs)	
Alternator Output	12V, 144W,12A			12V, 84W, 7A		12V, 60W, 5A	Opt. 12V, 60W, 5A	Opt. 12V, 60W, 5A		N/A	
Color Option***	AQ & BW	AQ		AQ & BW	AQ		AQ & BW	AQ			

Specifications are subject to change without notice.  
\*Weight Specification is based on the lightest version.    \*\*Alternator on Certain Models    \*\*\*AQ: Aqua Marine Blue, BW: Beluga White    \*\*\*\*D.C. Output

	TWO STROKE SERIES									
Model	M5	M4	M3.5 B	M3.5 A	MX50	MX40	MX30	MX25	MX18	MX15
										
No.of Cylinder	1				3		2			
Output	5 ps (3.7 kw)	4 ps (2.9 kw)	3.5 ps (2.6 kw)		50 ps (37 kw)	40 ps (29.4 kw)	30 ps (22.1 kw)	25 ps (18.4 kw)	18 ps (13.2 kw)	15 ps (11 kw)
Displacement	102 cm <sup>3</sup> (6.2 cu in)		74.6 cm <sup>3</sup> (4.6 cu in)		697 cm <sup>3</sup> (42.5 cu in)		429 cm <sup>3</sup> (26.2 cu in)		294 cm <sup>3</sup> (17.9 cu in)	
Bore x Stroke	55 x 43 mm (2.17 x 1.69 in)		47 x 43 mm (1.85 x 1.69 in)		68 x 64 mm (2.68 x 2.52 in)		68 x 59 mm (2.68 x 2.32 in)		60 x 52 mm (2.36 x 2.05 in)	
Max. RPM Range	4,500 - 5,500 r/min		4,200 - 5,300 r/min		5,000 - 5,800 r/min		5,150 – 5,850 r/min	5,000 – 6,000 r/min	5,200 – 5,800 r/min	4,500 – 5,500 r/min
Starting	Manual				Electric & Manual or Manual		Manual			
Control Type	Tiller Handle									
Gear Ratio	2.15:1			1.85:1	2.08:1		1.92:1		1.85:1	
Propeller Rotation	Standard-rotation									
Propeller Selection Range	6" - 9"		4.5" - 7"		7" - 17"		8" - 14"		6" - 11.5"	
Transom Height	15", 20"								15", 20", 25"	15", 20"
Weight*	20 kg (44 lbs)		13 kg (29 lbs)	12.5 kg (28 lbs)	72 kg (159 lbs)		51 kg (112 lbs)		41 kg (90 lbs)	
Alternator Output	Opt. 12V, 60W, 5A		-		12V, 132W, 11A		Opt. 12V, 84W, 7A			
Color Option***	AQ									

Specifications are subject to change without notice.  
\*Weight Specification is based on the lightest version.    \*\*Alternator on Certain Models    \*\*\*AQ: Aqua Marine Blue, BW: Beluga White    \*\*\*\*D.C. Output



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