Furuno | Airmar Guide To Marine Transducers

FURUNO

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AIRMAR® TECHNOLOGY CORPORATION

THRU-HULL

	Furuno Part #	Airmar Housing #	Housing Material	Power	L,M,H,HW	Frequency	Beam Width	Max Bottom Detection	D/S/T	# of Pins	Fairing	Cable Length
CW	520-PLD	P319	Plastic	600W		50/200kHz	45°/12°	1200' (353m) 700' (206m)	D	10F	NONE	10 Meters
	520-BLD	B117	Bronze	600W		50/200kHz	45°/12°	1200' (353m) 700' (206m)	D	10F	NONE	10 Meters
	520T-BLD	B117	Bronze	600W		50/200kHz	45°/12°	1200' (353m) 700' (206m)	D,T	10F	NONE	10 Meters
	525T-BSD	B45	Bronze	600W		50/200kHz	45°/12°	1200' (353m) 700' (206m)	D,T	10F	NONE	10 Meters
	525T-LTD/12	B60	Bronze	600W		50/200kHz	45°/12°	1200' (353m) 700' (206m)	D,T	10F	NONE	10 Meters
	525T-LTD/20	B60	Bronze	600W		50/200kHz	45°/12°	1200' (353m) 700' (206m)	D,T	10F	NONE	10 Meters
	525STID-MSD	B744VC	Bronze	600W		50/200kHz	45°/12°	1200' (353m) 700' (206m)	D,S,T	10F	Fairing	10 Meters
	525STID-MSD7	B744VLC	Bronze	600W		50/200kHz	45°/12°	1200' (353m) 700' (206m)	D,S,T	10F	Fairing	10 Meters
	525TID-BHD	B258	Bronze	1KW		50/200kHz	15°x21°/3°x5°	2200' (647m) 1000' (294m)	D,T	10F	Fairing	10 Meters
	526TID-HDD	B260	Bronze	1KW		50/200kHz	19°/6°	2500' (762m) 1000' (294m)	D,T	10F	Fairing	10 Meters
	526TID-HDN	B260	Bronze	1KW		50/200kHz	19°/6°	2500' (762m) 1000' (294m)	D,T	NC	Fairing	10 Meters
	556TID-HDD	SS260	Stainless	1KW		50/200kHz	19°/6°	2500' (762m) 1000' (294m)	D,T	10F	Fairing	10 Meters
	556TID-HDN	SS260	Stainless	1KW		50/200kHz	19°/6°	2500' (762m) 1000' (294m)	D,T	NC	Fairing	10 Meters
CHIRP	B150M	B150M	Bronze	300W	M	95-155kHz	26°-17°	600' (183m)	D,T	10F	NONE	12 Meters
	B785M	B785M	Bronze	600W	M	80-130kHz	24°-16°	900' (274m)	D,T	10F	Fairing	12 Meters
	B285M	B285M	Bronze	1kW	M	85-135kHz	16°-11°	1500' (457m)	D,T	10F	Fairing	12 Meters
	B285HW	B285HW	Bronze	1kW	HW	150-250kHz	25°	500' (152m)	D,T	10F	Fairing	12 Meters
	B265LH	B265LH	Bronze	1kW	L/H	42-65kHz/ 130-210kHz	25°-16°/10°-6°	3000' (914m) 1000' (304m)	D,T	NC	Fairing	12 Meters
	B275LHW	B275LHW	Bronze	1kW	L/HW	42-65kHz/150-250kHz	25°-16°/25°	3000' (914M) 500' (152M)	D,T	NC	Fairing	12 Meters
	R109LH	R109LH	Urethane	2kW	L/H	38-75kHz/130-210kHz	P/S 19°-10°F/A 10°-5°/8°-4°	3000"(914m) 1000'(304m)	D,T	NC	Fairing	15 Meters
	R509LH	R509LH	Urethane	2-3kW	L/H	28-60kHz/ 130-210kHz	P/S 23°-9° F/A 11°-5°/ 8°-4°	6000'(1829m) 1500' (457m)	D,T	NC	Fairing	15 Meters

THRU-HULL TILTED ELEMENT

	Furuno Part #	Airmar Housing #	Housing Material	Power	L,M,H,HW	Frequency	Beam Width	Max Bottom Detection	D/S/T	# of Pins	Fairing	Cable Length
CW	SS60-SLD	SS60	Stainless	600W		50/200kHz	45°/12°	1200' (353m) 700' (206m)	D,T	10F	NONE	10 Meters
	SS60-SLTD/12	SS60 – 12°	Stainless	600W		50/200kHz	45°/12°	1200' (353m) 700' (206m)	D,T	10F	NONE	10 Meters
	SS60-SLTD/20	SS60 – 20°	Stainless	600W		50/200 kHz	45°/12°	1200' (353m) 700' (206m)	D,T	10F	NONE	10 Meters
	525T-LTD/12	B60 – 12°	Bronze	600W		50/200kHz	45°/12°	1200' (353m) 700' (206m)	D,T	10F	NONE	10 Meters
	525T-LTD/20	B60 – 20°	Bronze	600W		50/200kHz	45°/12°	1200' (353m) 700' (206m)	D,T	10F	NONE	10 Meters
	555-SLTD/20	SS565 – 20°	Stainless	600W		50/200kHz	45°/12°	1200' (353m) 700' (206m)	D	10F	NONE	10 Meters
	555-SLTD/12	SS565 – 12°	Stainless	600W		50/200kHz	45°/12°	1200' (353m) 700' (206m)	D	10F	NONE	10 Meters
	526TID-LTD/20	B164 – 20°	Bronze	1kW		50/200kHz	22°/6°	1800' (529m) 800' (235m)	D,T	10F	NONE	10 Meters
	526TID-LTD/12	B164 – 12°	Bronze	1kW		50/200kHz	22°/6°	1800' (529m) 800' (235m)	D,T	10F	NONE	10 Meters
	556TID-LTD/20	SS164 – 20°	Stainless	1kW		50/200kHz	22°/6°	1800' (529m) 800' (235m)	D,T	10F	NONE	10 Meters
	556TID-LTD/12	SS164 – 12°	Stainless	1kW		50/200kHz	22°/6°	1800' (529m) 800' (235m)	D,T	10F	NONE	10 Meters
CHIRP	B75L	B75L	Bronze	300W	L	40-75kHz	32°-21°	1200' (353m)	D,T	10F	NONE	12 Meters
	B75M	B75M	Bronze	600W	M	80-130kHz	24°-16°	900' (274m)	D,T	10F	NONE	12 Meters
	B75H	B75H	Bronze	600W	H	130-210kHz	15°-9°	700' (214m)	D,T	10F	NONE	12 Meters
	SS75L	SS75L	Stainless	300W	L	40-75kHz	32°-21°	1200' (353m)	D,T	10F	NONE	12 Meters
	SS75M	SS75M	Stainless	600W	M	80-130kHz	24°-16°	900' (274m)	D,T	10F	NONE	12 Meters
	SS75H	SS75H	Stainless	600W	H	130-210kHz	15°-9°	700' (214m)	D,T	10F	NONE	12 Meters
	SS75M/12	SS75M – 12°	Stainless	600W	M	80-130kHz	24°-16°	900' (274m)	D,T	10F	NONE	12 Meters
	SS75M/20	SS75M – 20°	Stainless	600W	M	80-130kHz	24°-16°	900' (274m)	D,T	10F	NONE	12 Meters
	SS75H/12	SS75H – 12°	Stainless	600W	H	130-210kHz	15°-9°	700' (214m)	D,T	10F	NONE	12 Meters
	SS75H/20	SS75H – 20°	Stainless	600W	H	130-210kHz	15°-9°	700' (214m)	D,T	10F	NONE	12 Meters
	B175L	B175L	Bronze	1kW	L	40-60kHz	32°-21°	2500' (762m)	D,T	10F	NONE	12 Meters
	B175M	B175M	Bronze	1kW	M	85-135kHz	16°-11°	1500' (457m)	D,T	10F	NONE	12 Meters
	B175M/12	B175M – 12°	Bronze	1kW	M	85-135kHz	16°-11°	1500' (457m)	D,T	10F	NONE	12 Meters
	B175M/20	B175M – 20°	Bronze	1kW	M	85-135kHz	16°-11°	1500' (457m)	D,T	10F	NONE	12 Meters
	B175H	B175H	Bronze	1kW	H	130-210kHz	10°-6°	1000' (304m)	D,T	10F	NONE	12 Meters
	B175HW	B175HW	Bronze	1kW	HW	150-250kHz	25°	500' (152m)	D,T	10F	NONE	12 Meters
	B175HW/12	B175HW – 20°	Bronze	1kW	HW	150-250kHz	25°	500' (152m)	D,T	10F	NONE	12 Meters
	B175HW/20	B175HW – 20°	Bronze	1kW	HW	150-250kHz	25°	500' (152m)	D,T	10F	NONE	12 Meters

POCKET KEEL MOUNT

	Furuno Part #	Airmar Housing #	Housing Material	Power	L,M,H,HW	Frequency	Beam Width	Max Bottom Detection	D/S/T	# of Pins	Fairing	Cable Length
CHIRP	CM265LH	CM265LH	Urethane	1kW	L/H	42-65kHz/ 130-210kHz	25°-16°/ 10°-6°	3,000' (914m) 1,000' (304m)	D,T	NC	NONE	12 Meters
	PM265LH	PM265LH	Urethane	1kW	L/H	42-65kHz/ 130-210kHz	25°-16°/ 10°-6°	3,000' (914m) 1,000' (304m)	D,T	NC	NONE	12 Meters
	PM275LHW	PM275LHW	Urethane	1kW	L/HW	42-65kHz/150-250kHz	25°-16°/ 25°	3,000' (914m) 500' (152m)	D,T	NC	NONE	12 Meters
	PM111LHG	PM111LH	Urethane	2kW	L/H	38-75kHz/130-210kHz	P/S 19°-10° F/A 10°- 5°/ 8°-4°	3,000' (914m) 1,000 (304m)	D,T	NC	NONE	15 Meters
	CM599LH	CM599LH	Urethane	2-3kW	L/H	28-60kHz/ 130-210kHz	P/S 23°-9° F/A 11°- 5°/ 8°-4°	6,000'(1829m) 1,500' (457m)	D,T	NC	NONE	15 Meters

IN-HULL

	Furuno Part #	Airmar Housing #	Housing Material	Power	L,M,H,HW	Frequency	Beam Width	Max Bottom Detection	D/S/T	# of Pins	Fairing	Cable Length
CW	520-IHD	P79	Plastic	600W		50/200kHz	45°/12°	1000' (294m) 600' (180m)	D	10F/6M	NONE	6 Meter
	527ID-IHD	M260	Plastic	1kW		50/200kHz	19°/6°	2500' (735m) 1000' (294m)	D	10F	NONE	10 Meters
	527ID-IHN	M260	Plastic	1kW		50/200kHz	19°/6°	2500' (735m) 1000'(294m)	D	NC	NONE	10 Meters

TRANSOM MOUNT

	Furuno Part #	Airmar Housing #	Housing Material	Power	L,M,H,HW	Frequency	Beam Width	Max Bottom Detection	D/S/T	# of Pins	Fairing	Cable Length
CW	525T-PWD	P66	Plastic	600W		50/200kHz	45°/12°	1200' (353m) 700' (206m)	D,T	10F	NONE	6 Meters
	525STID-PWD	P66	Plastic	600W		50/200kHz	45°/12°	1200' (353m) 700' (206m)	D,T	10F	NONE	10 Meters
	525TID-TMD	P6 TM258 6	Urethane	1kW		50/200kHz	15°x21°/ 3°x5°	2200' (647m) 1000' (294m)	D,T	10F	NONE	10 Meters
CHIRP	TM275LHW	TM275LHW	Urethane	1kW	L/HW	42-65kHz & 150-250kHz	25°-16°/ 25°	3000' (914m) 500' (152m)	D,T	BW	NONE	12 Meters
	TM185M	TM185M	Urethane	1kW	M	85-135kHz	16°-11°	1500' (457m)	D,T	10F	NONE	12 Meters
	TM185HW	TM185HW	Urethane	1kW	HW	150-250kHz	25°	500' (152m)	D,T	10F	NONE	12 Meters
	TM150M	TM150M	Urethane	300W	M	95-155kHz	26°-17°	600' (183m)	D,T	10F	NONE	12 Meters
	TM165HW	TM165HW	Urethane	600W	HW	150-250kHz	30°	600' (183m)	D,T	10F	NONE	12 Meters

SMART

	Furuno Part #	Airmar Housing #	Housing Material	Power	L,M,H,HW	Frequency	Beam Width	Max Bottom Detection	D/S/T	# of Pins	Fairing	Cable Length
NMEA2000®	DT-800PSF	IDT-N2000	Plastic	250W		235kHz	12°	600' (183m)	D,T	5M-DN	NONE	6 Meters
	DT-800MSF	IDT-N2000	Bronze	250W		235kHz	12°	600' (183m)	D,T	5M-DN	NONE	6 Meters
	235-MSLF	IDT-N2000	Bronze–long stem	250W		235kHz	11°	590' (180m)	D,T	5M-DN	NONE	6 Meters
	DST-800PWF	IDST-N2000	Plastic	100W		235kHz	11°	500' (150m)	D,S,T	5M-DN	NONE	6 Meters
	235-IHF	ID-N2000	Plastic	60W		235kHz	7°	500' (150m)	D	5M-DN	NONE	6 Meters

DFF3D

	Furuno Part #		Housing Material	Power	L,M,H,HW	Frequency	Beam Width	Max Bottom Detection	D/S/T	# of Pins	Fairing	Cable Length
DFF3D/DFF3D Combo	165T-50/200-SS260	Combo	Stainless	1kW		165kHz & 50/200kHz	6°-120°/22°-6°	1,640' (500m)	D,T	7F/10F/BW	Fairing	12 Meters
	165T-50/200-TM260	Combo	Urethane	1kW		165kHz & 50/200kHz	6°-120°/22°-6°	1,640' (500m)	D,T	7F/10F/BW	NONE	12 Meters
	165T-265LH-PM488	Combo	Urethane	1kW	L/H	165kHz & 42-65kHz & 130-210kHz	6°-120°/25°-16°/10°-6°	3,000' (914m) 1000'(304m)	D,T	7F/10F/BW	NONE	15 Meters
	165T/275LHW	Combo	Urethane	1kW	L/HW	165kHz & 42-65kHz & 150-250kHz	6°-120°/25°-16°/25°	3,000' (914m) 500' (152m)	D,T	7F/10F/BW	NONE	15 Meters
	165T-PM542LM	Combo	Urethane	2kW		165kHz & 38-75kHz & 80-130kHz	6°-120°/10°x19°-5°x10°/13°-8°	6,000' (1,829m) 3,000' (914m)	D,T	7F/BW	NONE	15 Meters
	165T-CM54	DFF3D Only	Urethane	1kW		165kHz	6°-120°	985'/300m (656'/200m side)	D,T	7F/BW	NONE	15 Meters
	165T-B54	DFF3D Only	Bronze	1kW		165kHz	6°-120°	985'/300m (656'/200m side)	D,T	7F/BW	Fairing	10 Meters
	165T-SS54	DFF3D Only	Stainless	1kW		165kHz	6°-120°	985'/300m (656'/200m side)	D,T	7F/BW	Fairing	10 Meters
	165T-TM54	DFF3D Only	Urethane	1kW		165kHz	6°-120°	985'/300m (656'/200m side)	D,T	7F/BW	Fairing	10 Meters

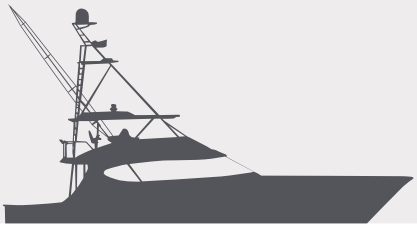
TZT3

	Furuno Part #	Airmar Housing #	Housing Material	Power	L,M,H,HW	Frequency	Beam Width	Max Bottom Detection	D/S/T	# of Pins	Fairing	Cable Length
CHIRP	B265LH-12P	B265LH	Bronze	1kW	L/H	42-65kHz & 130-210kHz	25°-16°/ 10°-6°	3,000' (914m) 1,000' (304m)	D,T	12F	Fairing	12 Meters
	TM275LHW-12P	TM275LHW	Bronze	1kW	L/HW	42-65kHz & 150-250kHz	25°-16°/ 25°	3,000' (914m) 500' (304m)	D,T	12F	NONE	12 Meters
	B275LHW-12P	B275LHW	Bronze	1kW	L/HW	42-65kHz & 150-250kHz	25°-16°/ 25°	3,000' (914m) 500' (152m)	D,T	12F	Fairing	12 Meters
	CM275LH-W-12P	CM275LHW	Urethane	1kW	L/HW	42-65kHz & 150-250kHz	25°-16°/ 25°	3,000' (914m) 500' (152m)	D,T	12F	NONE	12 Meters
	PM265LH-12P	PM265LH	Bronze	1kW	L/H	42-65kHz & 130-210kHz	25°-16°/ 10°-6°	3,000' (914m) 1,000' (304m)	D,T	12F	NONE	12 Meters

Selecting the right transducer is critical to getting the most out of your Fish Finder.

Furuno and Airmar offer a wide variety of traditional (also called CW, or Continuous Wave), CHIRP (Compressed High-Intensity Radar Pulse), and Multi-Beam transducers that take full advantage of Furuno's superior digital signal processing and unique features, such as Accu-Fish™, RezBoost™, and Bottom Discrimination.

This guide will provide you with the information you need to choose the best transducer for your boat.

	TRANSOM MOUNT	TILTED ELEMENT	IN-HULL	THRU-HULL WITH FAIRING	POCKET MOUNT
 Flats boat to 20 feet	●	●	●		
 Bay Boat Single or Dual Outboard	●	●	●		
 Center Console boat to 30 feet Outboard *Stepped hulls use Tilted Element or In-Hull transducers only forward of the first step.	●	●	●		●
 Sport Fishing boat 30-45 feet Inboard Power		●	●	●	●
 Sport Fishing boat 45 feet+ Inboard Power			●	●	●

CHOOSING THE RIGHT TRANSDUCER

The first question you should answer is, "How deep will I be doing most of my fishing?" For inshore angling out to 500 feet, a 600W model with a low frequency and a narrow beam width will do the job. Anything deeper will be best handled by a similar 1kW or higher powered transducer. Keep in mind, the objective is to get the most amount of energy on what you're targeting, not necessarily just the bottom.

Beamwidth/Frequency:

	Fishing depth*	Advantage	Disadvantage
High-Wide	Up to 500'	Wide beam with 25 degrees of coverage. Excellent target separation and bait fish locator.	Limited to shallower depths.
High	Up to 1000'	Narrow beam focuses maximum energy on targets and layers such as thermoclines and plankton. Excellent target separation from structure.	Narrow beam doesn't provide much coverage under the boat.
Medium	Up to 2000'	Good balance of coverage and target separation.	Less target separation than high and high-wide.
Low	Up to 2500'	Wide coverage under the boat and greater depth performance.	Less resolution at depths. Structure may appear smoothed due to wide beam, providing less detail.

HELPFUL TIPS FOR TRANSDUCER PERFORMANCE

- Transducers need non-aerated water with the least turbulence to work best. Before installing, make sure there are no strakes, water intakes or bow thrusters in front of the transducer location.
- In-hull models cannot be used on cored fiberglass or wood-hulled boats — hulls must be solid fiberglass.
- Stepped hull boats must have the transducer installed in front of the first step.
- Hulls over 35' will need a thru-hull transducer with a fairing block to get the face of the transducer past the boundary layer (aerated water) produced by the hull.
- Transom mount transducers can be adjusted up and down for optimal performance.

For the best installation, use an AIRMAR Certified Installer. Visit AIRMAR.com for an installer near you.

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