

MARINE BEARINGS

Exalto UK
BRITISH MADE WATER LUBRICATED BEARINGS

PART OF THE
GRAPHALLOY
GROUP



“I MADE MY FIRST ENQUIRY WITH EXALTO IN OCTOBER 2012 AND FOUND THE TEAM HELPFUL, FRIENDLY AND EASY TO WORK WITH. THE SERVICE I RECEIVED WAS QUICK AND RELIABLE; I WOULDN'T HESITATE TO USE THEM AGAIN.”
ABIGAIL M, INTERNATIONAL YACHT MANAGEMENT COMPANY

WELCOME TO EXALTO BEARINGS UK

Since 1996, Exalto UK has been manufacturing the highest-quality rubber-lined and composite cutlass bearings for the pump and marine industries. Nobody knows bearings better.

We're a proudly British company, trusted by our long-standing customers to supply both standard and non-standard bearings for marine businesses of all sizes – from major marine chandleries, leading propulsion manufacturers and ship repair yards, to small marina shops and individual boat owners.

Exalto UK is now part of the Graphite Metallizing Group in the USA, who specialise in bearings and products manufactured using Graphalloy®, a unique graphite/metal alloy suitable for use in the toughest conditions. The combined expertise of GMC and Exalto mean we can offer our customers a complete package of bearing solutions to suit any application.

Above all, you'll enjoy a professional, dedicated service from our team, who service customers old and new in over 40 countries worldwide

Read on to discover more about our marine bearings or, to buy direct, call us on +44 (0)1332 340 501 or visit www.exaltouk.com



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“THE CURRENT EXALTO BEARING DESIGN CAN BE SEEN AS A BENCHMARK. THE RECOMMENDATION IS TO DESIGN A BEARING WITH THE SAME PROFILE AS THE CURRENT EXALTO BEARING. IT IS REALLY HARD TO IMPROVE THESE BEARINGS.”

IDEA HEAVY EQUIPMENT (MARITIME ENGINEERING CONSULTANCY), FOLLOWING RIGOROUS TESTING OF OUR BEARINGS AND FACILITIES

STANDARD BEARINGS

We make it easy to order new or replace existing water-lubricated bearings for stern gear or rudder applications. And because we're a small, expert team, you can be sure you're getting the highest-quality bearings, with a robust British finish.

We maintain high stock levels of standard bearings in both metric and imperial measurements, using a variety of shell materials, linings and flute designs, including naval brass, phenolic and cutting-edge GRP fibreglass composite.

As a result, we can immediately respond to any order and ensure rapid delivery – essential if you're paying dry dock fees. So, you'll always get reliable products, reliably delivered.

NON-STANDARD BEARINGS

For some vessels, standard bearings aren't enough. That's why we also manufacture bearings to your specifications. We use a range of shell materials, linings and flute designs, and can accommodate size requests up to 900mm in length, 270mm inner diameter and 320mm outer diameter.

We now also supply self-lubricating cutlass bearings made from Nylube and Maritex materials, which can also be used to manufacture rudder bearings. These are easy to fit, perfect for low-speed, high-load applications, and deliver low wear rates while being appropriate for running dry.

For more details of our non-standard bearings, visit www.exaltouk.com or call +44 (0)1332 340 501.



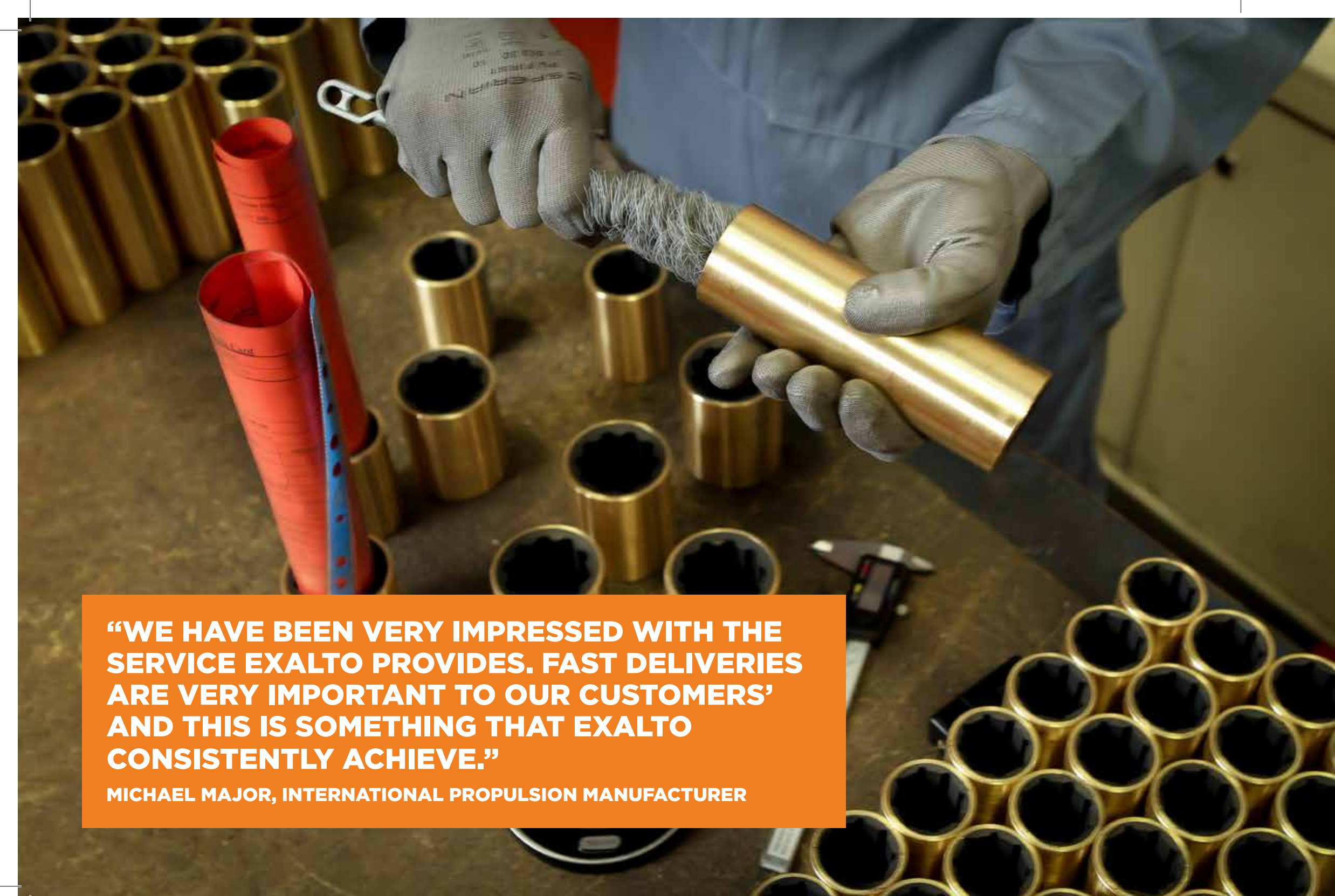
OUR COMMITMENT TO QUALITY

As an ISO9001:2008-accredited company, we adhere to the highest international quality management standards, and we have the experience of a team whose responsibility is to check outgoing orders. Thus, every one of our custom-made bearings is crafted with the same commitment to quality as our standard bearings.



**“WE BUY ALL OUR BEARINGS FROM
EXALTO AND THE LEVEL OF SERVICE AND
QUALITY OF THE PRODUCTS THEY HAVE
SUPPLIED TO US OVER THE YEARS HAS
ALWAYS BEEN EXCELLENT”**

**MICHAEL F, LEADING INTERNATIONAL DISTRIBUTOR OF
MARINE EQUIPMENT**



“WE HAVE BEEN VERY IMPRESSED WITH THE SERVICE EXALTO PROVIDES. FAST DELIVERIES ARE VERY IMPORTANT TO OUR CUSTOMERS’ AND THIS IS SOMETHING THAT EXALTO CONSISTENTLY ACHIEVE.”

MICHAEL MAJOR, INTERNATIONAL PROPULSION MANUFACTURER

	Dimensions (mm)	Phenolic Shell Cat. No.	Brass Shell Cat. No.	GRP Shell Cat. No.
Metric Bearings	25x40x100mm	MPSF25	MBSF25	MGSF25
	30x45x120mm	MPSF30	MBSF30	MGSF30
	35x50x140mm	MPSF35	MBSF35	MGSF35
	40x55x160mm	MPSF40	MBSF40	MGSF40
	45x65x180mm	MPSF45	MBSF45	MGSF45
	50x70x200mm	MPSF50	MBSF50	MGSF50
	55x75x220mm	MPSF55	MBSF55	
	60x80x240mm	MPSF60	MBSF60	MGSF60
	65x85x260mm	MPSF65	MBSF65	
	70x90x280mm	MPSF70	MBSF70	MGSF70
	75x95x300mm	MPSF75	MBSF75	MGSF75
	80x100x320mm	MPSF80	MBSF80	MGSF80
	85x105x340mm	MPSF85	MBSF85	
	90x110x360mm	MPSF90	MBSF90	MGSF90
95x115x380mm	MPSF95	MBSF95		
100x125x400mm	MPSF100	MBSF100	MGSF100	

	Dimensions (Inches)	Phenolic Shell Cat. No.	Brass Shell Cat. No.	GRP Shell Cat. No.
Imperial Bearings	3/4 x 1-1/4 x 3"	IPSF06	IBSF06	
	1" x 1 1/4" x 4"	IPSF08-2	IBSF08-2	
	1"x1 1/2"x4"	IPSF08	IBSF08	IGSF08
	1-1/8 x 1-5/8 x 4-1/2"	IPSF09	IBSF09	
	1-1/4 x 1-1/2 x 5"	IPSF10-2	IBSF10-2	
	1 1/4 x 1 3/4 x 5"	IPSF10	IBSF10	IGSF10
	1-1/4 x 2 x 5"	IPSF10+2	IBSF10+2	
	1 1/2"x2"x6"	IPSF12	IBSF12	IGSF12
	1 3/4"x2 3/8"x7"	IPSF14	IBSF14	IGSF14
	1 3/4"x2 5/8"x7"	IPSF14+2	IBSF14+2	
	2"x2 5/8"x8"	IPSF16	IBSF16	IGSF16
	2 1/4" x 3" x 9"	IPSF18	IBSF18	IGSF18
	2-1/4 x 3-1/8 x 9"	IPSF18+1	IBSF18+1	
	2 1/2" x 3 1/4" x 10"	IPSF20	IBSF20	IGSF20
	3"x3 3/4"x12"	IPSF24-2	IBSF24-2	
	3"x4"x12"	IPSF24	IBSF24	IGSF24

STOCK RANGE MARINE BEARINGS

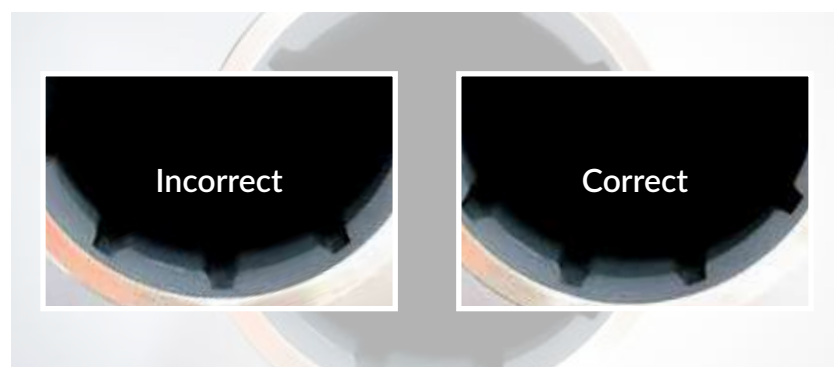
Our in-house experts craft bearings of all sizes and specifications to order, but we also maintain high stock levels of standard bearings, which we can deliver rapidly to save you time and money. Here, you'll find our complete standard bearing stock list.

	Dimensions (mm x Inch x mm)	Phenolic Shell Cat. No.	Brass Shell Cat. No.
Metric/Imperial	25mmx1 1/2"x100mm	MIPSF25	MIBSF25
	30mmx1 3/4"x120mm	MIPSF30	MIBSF30
	35mmx1 7/8"x140mm	MIPSF35	MIBSF35
	40mmx2 1/8"x160mm	MIPSF40	MIBSF40
	45mmx2 3/8"x180mm	MIPSF45	MIBSF45
	50mmx2 5/8"x200mm	MIPSF50	MIBSF50
	60mmx3"x240mm	MIPSF60	MIBSF60

INSTALLING MARINE BEARINGS

Standard Bearing Installation:

For a marine cutlass bearing to operate satisfactorily, it must be first mounted correctly within the stern tube or bracket. E.g. the bearing must be inserted with the landed area along the bottom to avoid damage on start-up



Cutlass Bearings

In marine applications, cutlass bearings are generally installed in a housing with a light press fit and held in place by either Loctite or cone point set screws. Often a second setscrew is installed on top of the first to lock the first setscrew in place. The bearing shell is spotted to receive the setscrews in such a manner as to prevent them from extending through the shell into the rubber and thus forcing the rubber against the shaft. This permits the setscrew to prevent movement of the bearing without requiring the screw to be so tight that distortion of the bearing could occur.

Flanged Bearings

Flanged bearings should be installed with a light press fit and secured by suitable studs and nuts through the flange.

Press Fit/Shrink Fit

Chilling sleeve and flanged bearings before fitting is an acceptable practice to achieve an interference fit between the bearing shell and housing. The method of chilling must be slow and mild in temperature (no lower than -18oC) and the interference fit light. If the chilling is fast with extreme temperature drops, the thermal shock can result in the separation of the bond between the rubber and the metal shell. **Never use dry ice to cool a Cutlass Bearing.** The interference fit between the outside diameter of the bearing and the inside diameter of the housing should not be more than a light press fit. Chilled bearings should be pressed into the housing, not pounded. Pounding a chilled bearing can create sufficient shock to separate or break the metal to rubber bond.

Reinstallation of Shaft & Installation Lubricants

Use care in installing heavy shafts. In the case of large and heavy shafts, use a mild water-soluble soap on all bearings. Never use petroleum-based lubricants. Non-water-soluble lubricants can leave a residue that can restrict water flow. Glycerine is a suitable lubricant to use when installing shafts. Care must be taken to prevent tearing the rubber lining when the shaft is inserted into the bearing. The weight of the shaft should be properly supported during the process.

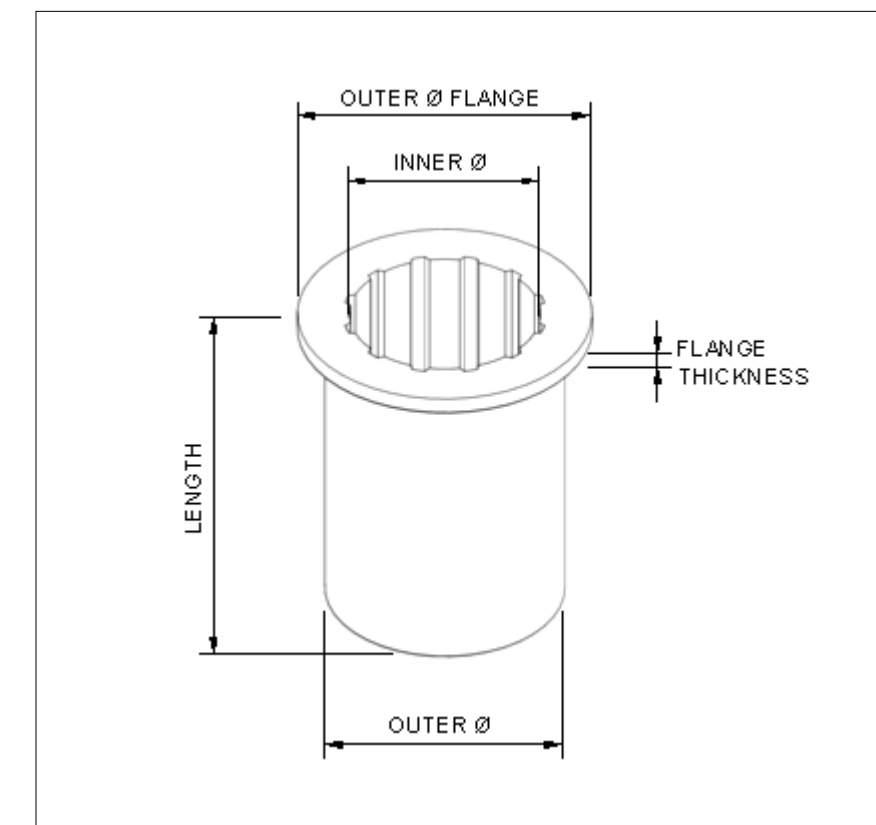
Installation of Non-Metallic Bearings

Installation of New Sleeve Bearings

The bearing should fit the housing with a light press fit. Do not lubricate the inside of the housing or the outside of the bearing shell. If installation is difficult, the bearing may be slowly cooled using a freezer or conventional ice for a minimum of 2 hours before installation. Never cool below -18oC (0oF). Never use dry ice. **Never pound or shock the bearing while it is cooled.** This may cause the rubber to separate from the shell. After the bearing is pressed into the housing, some customers prefer to secure the bearing further by fitting a grub screw to prevent it from spinning. If this is done, drill part way through the shell only. Do not drill into the rubber and ensure the bore of the bearing does not close in/distort.

NB. All Exalto bearings are precision machined in-house to suit a housing with an H7 hole, in accordance with ISO 286-2

MEASURING MARINE BEARINGS



When using our online enquiry form or requesting a quote from one of our team, we would need to know the dimensions of the bearing you require. Standard marine bearings do not have a flange but we can accommodate requests for these if required.

If you are unsure of the size of bearing you require, our team will be able to assist so please call us on +44 (0) 1332 340501.





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