



connitted to quality

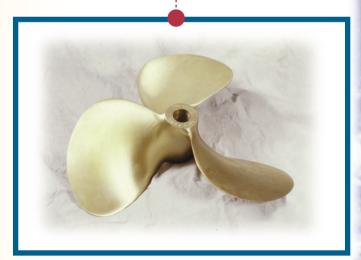
# Our Commitment to Quality...

all & Stavert has been producing propellers and related marine hardware for most of it's 63 year history. The original HyTorq Propeller line-up consisted primarily of a few sizes of 3-blade propellers. Today, the HyTorq line-up stands as one of the most complete propeller lines available to the marine industry. Whether for recreational or commercial use, vessel owners/operators can choose 3, 4 or 5-bladed HyTorq Propellers in most diameters from 17" to 48". Hall & Stavert's goal is to supply high quality, reliable propellers with the ability to perform consistently under today's vigorous conditions.

Our Commitment to Quality begins long before the receipt of your order. Our raw materials are inspected and certified prior to acceptance and our personnel complete extensive training programs prior to joining our permanent workforce. This combination ensures that HyTorq Propellers exhibit the quality, value and dependability that has become not only the standard for this product but also for the entire propeller industry.

Hall & Stavert's sales and engineering personnel will welcome any propeller sizing analysis requests and return our complete computer results as quickly as possible. All you need to do is send your completed propeller analysis form direct to us or contact one of our many HyTorq Propeller Distributors. Complete distributor listings and other HyTorq information can be obtained by contacting our website at www.hytorq.com

**HyTorq MY-T3** 



Hardworking commercial and high speed pleasure craft have one thing in common... their need for dependable performance from their propellers. The Hytorq MY-T3 is a propeller designed with both the hard working fishing boat and pleasure craft captains in mind. Designed to handle today's high powered engines with ease... the MY-T3 has a large blade area to enhance performance and maneuverability. The blades are carefully engineered, polished and finely profiled to allow increased thickness for greater strength in critical areas, without detracting from performance.

**HyTorq MY-T4** 



Manufactured to the same high quality standards as the three blade HyTorq, the four blade HyTorq is the right choice where either or both greater blade area and super smooth operation are desired. The HyTorq MY-T4 was designed with today's high powered engines in mind and built to the exacting standards that make it "The Captain's Choice" whether they are boating for profit or pleasure. The HyTorq hubs are designed to have the correct lengths required for more taper contact and better load distribution along with large outside diameters streamlined for smooth water flow while accommodating the popular larger shafts.



To ensure interchangeability, finish bore propellers are machined to the S.A.E. standards as given below. Pilot bore propellers must be finish bored with reference to the pilot bore rather than the hub or blade tips.

### **Propeller Shaft End Dimensions** Taper = 3/4 in. on diameter per foot

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3/4	.625	2	3/16	3/32	1/2	13	1-1/16	1-5/16	25/64	1/8	3/8	1/4	1-9/64	9/64	1/8	3/4	1-1/2	
7/8	.727	2-3/8	1/4	1/8	5/8	11	1-1/4	1-1/2	31/64	1/8	7/16	1/4	1-21/64	9/64	1/8	3/4	1-25/32	
1	.828	2-3/4	1/4	1/8	3/4	10	1-7/16	1-3/4	19/32	1/8	1/2	5/16	1-33/64	9/64	1/8	1	2-1/8	
1-1/8	.930	3-1/8	1/4	1/8	3/4	10	1-7/16	1-3/4	19/32	1/8	1/2	5/16	1-33/64	9/64	1/8	1	2-1/8	
1-1/4	1.031	3-1/2	5/16	5/32	7/8	9	1-5/8	2	23/32	1/8	5/8	3/8	1-23/32	11/64	5/32	1-1/4	2-13/16	
1-3/8	1.133	3-7/8	5/16	5/32	1	8	1-13/16	2-1/4	13/16	1/8	3/4	7/16	1-29/32	11/64	5/32	1-1/2	3-3/16	
1-1/2	1.234	4-1/4	3/8	3/16	1-1/8	7	2	2-7/16	29/32	3/16	7/8	7/16	2-3/32	11/64	5/32	1-1/2	3-1/2	
1-3/4	1.438	5	7/16	7/32	1-1/4	7	2-1/4	2-3/4	1-1/32	3/16	1	1/2	2-23/64	13/64	3/16	1-3/4	4-7/32	
2	1.641	5-3/4	1/2	1/4	1-1/2	6	2-5/8	3-1/8	1-1/4	3/16	1-1/4	1/2	2-47/64	13/64	3/16	2	4-15/16	
2-1/4	1.844	6-1/2	9/16	9/32	1-3/4	5	3	3-1/2	1-3/8	3/16	1-3/8	1/2	3-9/64	17/64	1/4	2-1/4	5-5/8	
2-1/2	2.047	7-1/4	5/8	5/16	1-3/4	5	3	3-1/2	1-7/16	3/16	1-7/16	1/2	3-9/64	17/64	1/4	2-1/4	6-3/32	
2-3/4	2.258	7-7/8	5/8	5/16	2	4-1/2	3-1/2	4	1-11/16	1/4	1-11/16	1/2	3-41/64	17/64	1/4	2-1/2	6-21/32	
3	2.461	8-5/8	3/4	5/16	2-1/4	4-1/2	3-7/8	4-3/8	1-15/16	1/4	1-15/16	1/2	4-1/64	17/64	1/4	3	7-11/32	
3-1/4	2.664	9-3/8	3/4	5/16	2-1/2	4	4-3/8	5-1/8	2-1/8	3/8	2-1/8	3/4	4-37/64	3/8	3/8	3	8-1/2	
3-1/2	2.867	10-1/8	7/8	5/16	2-1/2	4	4-3/8	5-1/8	2-1/8	3/8	2-1/8	3/4	4-37/64	3/8	3/8	3	9-1/4	
3-3/4	3.070	10-7/8	7/8	5/16	2-3/4	4	4-3/4	5-1/2	2-3/8	3/8	2-3/8	3/4	4-61/64	3/8	3/8	3-1/2	10	
4	3.273	11-5/8	1	5/16	3	4	5-1/8	5-7/8	2-1/2	3/8	2-1/2	3/4	5-21/64	3/8	3/8	3/8	10-1/2	

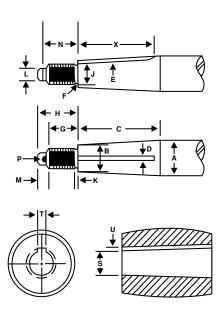
<sup>\*</sup> Keyway shall be cut parallel to taper

All dimensions are in inches

### **Propeller Hub Bore Dimensions**

Taper = 3/4 in. on diameter per foot

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	andard Tags	5/						
,	Molon	Sma			John.	,		WAY
CX	andid	Dia Sna		40	Midth.		4	Oppir.
1 2						_		
	Min	Max	Nom	Min	Max	Nom	Min	Max
3/4	.608	.610	3/16	.1865	.1875	3/32	.098	.100
7/8	.710	.712	1/4	.249	.250	1/8	.129	.131
1	.811	.813	1/4	.249	.250	1/8	.129	.131
1-1/8	.913	.915	1/4	.249	.250	1/8	.129	.131
1-1/4	1.015	1.017	5/16	.3115	.3125	5/32	.162	.165
1-3/8	1.116	1.118	5/16	.3115	.3125	5/32	.161	.164
1-1/2	1.218	1.220	3/8	.374	.375	3/16	.195	.198
1-3/4	1.421	1.423	7/16	.4365	.4375	7/32	.226	.229
2	1.624	1.626	1/2	.499	.500	1/4	.259	.262
2-1/4	1.827	1.829	9/16	.561	.5625	9/32	.291	.294
2-1/2	2.030	2.032	5/8	.6235	.625	5/16	.322	.325
2-3/4	2.233	2.235	5/8	.6235	.625	5/16	.322	.325
3	2.437	2.439	3/4	.7485	.750	5/16	.323	.326
3-1/4	2.640	2.642	3/4	.7485	.750	5/16	.323	.326
3-1/2	2.843	2.845	7/8	.8735	.875	5/16	.324	.327
3-3/4	3.046	3.048	7/8	.8735	.875	5/16	.324	.327
4	3.249	3.251	1	.9985	1.000	5/16	.326	.329



### **Hall & Stavert**

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Web Site: www.hytorq.com Email Address: hytorq@hytorq.com



Keyway shall be cut parallel to taper
 Keyway side depth is measured normal to axis of taper All dimensions are in inches

## METALLURGY

The manganese bronze alloy is the standard "HyTorq" propeller metal. With a minimum tensile strength of 65,000 psi, this alloy guarantees a propeller that is dimensionally stable and easily repaired.

Where exceptional strength and durability are required, our nickel aluminum bronze may be the best. This alloy, with a minimum tensile strength of 85,000 psi, provides excellent resistance to corrosion and cavitation erosion.

All HyTorq Propellers are available in the popular sizes in both manganese bronze and nickel aluminum bronze.

### **SPECIFICATIONS**

# **HyTorq MY-T3**

			/20	/	/6	/^	/	/	60
250	Deller Att	Hub ter Fw	Hub Jiameter Hu	o dit Ma	Ainum Mir	imum Pik	ner we	ight De	veloped in wi
/ 4	jiall C	jial' C	jial!	ength Ma	ore M	Sore Pill	aber Me	061* D6	reg (III)
17"	2-1/4	2-1/2	3-1/2	1-1/2	1-1/4	1-1/4	16	126.6	333
18"	2-3/8	2-5/8	3-1/2	1-3/4	1-1/4	1-1/4	17	141.9	392
19"	2-3/8	2-5/8	3-7/8	1-3/4	1-1/4	1-1/4	19	166.2	478
20"	2-3/8	2-5/8	4	1-3/4	1-1/4	1-1/4	21	175.3	553
21"	2-3/4	3	4-1/8	2	1-3/8	1-3/8	27	202.4	680
22"	2-3/4	3	4-1/4	2	1-3/8	1-3/8	30	212.1	810
23"	3-1/8	3-1/4	4-1/4	2	1-1/2	1-3/8	35	240.6	1070
24"	3-1/8	3-1/4	4-5/8	2	1-1/2	1-3/8	35	252.4	1220
26"	3-3/8	3-5/8	5	2-1/4	1-3/4	1-1/2	50	296.3	1770
28"	3-3/4	4	5-3/4	2-1/2	1 3/4	1-3/4	57	343.6	2630
30"	4	4-1/4	6	2-3/4	1-3/4	1-3/4	78	394.4	3520
32"	4-1/4	4-1/2	6	3	2	2	94	448.8	4810
34"	4-1/4	4-1/2	6-1/2	3	2	2	107	506.6	6460
36"	4-3/4	5-1/4	8-1/4	3-1/2	2-3/4	2-1/2	130	567.7	8910

All dimensions are in inches

\* denotes approx. dimensions only
\*\* denotes approx. weight - Manganese Bronze
\*\*\* denotes approx. WR^2 in air

## **HyTorq MY-T4**

										_
	iol	/2	000		Ximum Mir	/10		/,	veloped in whi	/,
6	Peller Att	HUD HET N	d Hub	3 1/3	AITHU SIG	irrum Pil	3.	idht. De	veloped in WE	Ł**
P	Delle et Att	Hub ter Fw	d Huber Hur	ength Ma	ore Mil	ore Pill	aber Me	05) 08	reg in MR	Sil
17"	2-1/4	2-1/2	3-1/2	1-1/2	1-1/4	1-1/4	19	153.1	366	
18"	2-3/8	2-5/8	3-1/2	1-3/4	1-1/4	1-1/4	19	171.7	429	1
19"	2-3/8	2-5/8	3-7/8	1-3/4	1-1/4	1-1/4	21	202.7	499	1
20"	2-3/8	2-5/8	4	1-3/4	1-1/4	1-1/4	23	212.1	622	
21"	2-3/4	3	4-1/8	2	1-3/8	1-3/8	28	238.6	790	
22"	2-3/4	3	4-1/6	2	1-3/8	1-3/8	31	256.9	940	l
23"	3-1/8	3-1/4	4-1/4	2	1-1/2	1-3/8	39	288.4	1300	
24"	3-1/8	3-1/4	4-1/4	2	1-1/2	1-3/8	41		1450	
26"						1-3/8		305.4		
	3-3/8	3-5/8	5	2-1/4	1-3/4		53	358.4	2150	
28"	3-3/4	4	5-3/4	2-1/2	1 3/4	1-3/4	66	415.6	3240	
30"	4	4-1/4	6	2-3/4	1-3/4	1-3/4	82	477.1	4230	
32"	4-1/4	4-1/2	6	3	2	1-3/4	100	542.9	5960	
34"	4-1/4	4-1/2	6-1/2	3	2	2	140	612.8	8020	
36"	4-3/4	5-1/4	8-1/4	3-1/2	2-3/4	2-1/2	146	686.7	11230	
38"	5-1/4	5-1/2	8-1/4	3-1/2	2-3/4	2-1/2	172	765.2	13750	
40"	5-1/4	5-1/2	9	3-3/4	3	3	192	847.8	17180	
42"	5-1/2	6	10-1/2	4	3	3	240	935.0	24400	
44"	5-1/2	6-1/4	10-1/2	4	3	3	282	1025.8	31500	
46"	5-1/2	6-1/4	10-1/2	4	3	3	304	1121	37000	
48"	5-1/2	6-1/4	10-1/2	4	3	3	340	1221	45800	

All dimensions are in inches

\* denotes approx. dimensions only
\*\* denotes approx. weight - Manganese Bronze
\*\*\* denotes approx. WR^2 in air

### **HyTorq MY-T5**

	Peller Att	Jub et	Hub Hut	/ * /	TIPUTTI MIL	imum Pil		ight De	veloped in WE
810	pelleter Att	Hub er Fw	Hureter Hur	ength Ma	ore Mil	inte Pilo	aber Me	OB) P	neg in ME
24"	3-1/8	3-1/4	4-5/8	2	1-1/2	1-3/8	57	384	1990
26"	3-3/8	3-5/8	5	2-1/4	1-3/4	1-1/2	72	451	3115
28"	3-3/4	4	5-3/4	2-1/2	1 3/4	1-3/4	79	523	4967
30"	4	4-1/4	6	2-3/4	1-3/4	1-3/4	109	601	6480
32"	4-1/4	4-1/2	6	3	2	1-3/4	150	683	8847
34"	4-1/4	4-1/2	6-1/2	3	2	2	180	772	11985
36"	4-3/4	5-1/4	8-1/4	3-1/2	2-3/4	2-1/2	210	864	15676
38"	5-1/4	5-1/2	8-1/4	3-1/2	2-3/4	2-1/2	240	964	19961
40"	5-1/4	5-1/2	9	3-3/4	3	3	260	1068	23961
42"	5-1/2	6	10-1/2	4	3	3	325	1177	33022
44"	5-1/2	6	10-1/2	4	3	3	370	1291	41260
46"	5-1/2	6-1/4	10-1/2	4	3	3	410	1412	49975

All dimensions are in inches

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