



Xchangeable Hub System



Michigan Wheel's Xchangeable Hub System (XHS®) absorbs impact and stress caused by shifting gears, and is designed to spin under significant impact to help protect your lower unit. XHS® / XHS II® is also designed to be interchangeable with Mercury's Flo-Torq II® hub system, potentially saving you money when replacing or upgrading your propeller.

VORTEX® XHS® SERIES ALUMINUM PROPELLERS

PROP SERIES A			PROP SERIES B			PROP SERIES C			PROP SERIES D						PROP SERIES E		
3 & 4-Blade			3 & 4-Blade			3 & 4-Blade			Standard 3 & 4-Blade			Lg. Diameter 3 & 4-Blade			Standard 3-Blade		
DIA x PITCH	BLD #	P/N	DIA x PITCH	BLD #	P/N	DIA x PITCH	BLD #	P/N	DIA x PITCH	BLD #	P/N	DIA x PITCH	BLD #	P/N	DIA x PITCH	BLD #	P/N
16 x 13	3	992001	14 x 11	3	992209	11-1/2 x 8	4	992401	10-5/8 x 12	4	941212	11-1/2 x 8	4	992401	10-1/2 x 9	3	992501
15-1/4 x 15	3	992002	13-3/4 x 13	3	992212	11-1/2 x 9	4	992402	10-5/8 x 13	4	941213	11-1/2 x 9	4	992402	10-1/2 x 10	3	992502
16 x 16	3	931516	13-1/2 x 15	3	992213	11-1/2 x 10	4	992403	10-1/8 x 14	4	941214	11-1/2 x 10	4	992403	10-1/2 x 11	3	992503
15 x 17	3	992003	13-1/4 x 17	3	992214	11-3/4 x 13	3	992301	10-1/8 x 15	4	941215	12-1/4 x 9	3	992601	10-1/8 x 12	3	992504
14-1/2 x 19	3	992004	13 x 19	3	992215	11-3/4 x 15	3	992302	10-3/8 x 11	3	992404	11-3/4 x 10	3	992602	10-1/8 x 13	3	992505
14-1/4 x 21	3	992005	13 x 21	3	992216	11-3/4 x 17	3	992303	10-3/8 x 12	3	992405	11-5/8 x 11	3	992603	10-1/8 x 14	3	992506
14 x 23	3	992006	13-7/8 x 11	4	941411	12-1/2 x 13	3	992311	10-3/8 x 13	3	992406	11-3/8 x 12	3	992604			
15 x 16	4	992202	13-7/8 x 13	4	941413	12-1/4 x 15	3	992312	10-3/8 x 14	3	992407	11-1/8 x 13	3	992605			
14-1/2 x 18	4	992203	13-3/8 x 15	4	941415				10 x 15	3	992408	11-1/4 x 14	3	992606			
14 x 20	4	992204	13 x 17	4	941417				10 x 16	3	992409						
			12-1/2 x 19	4	941419												

APOLLO® XHS® SERIES STAINLESS STEEL PROPELLERS

PROP SERIES A V8/V6 APPLICATIONS						PROP SERIES B V4 APPLICATIONS						PROP SERIES D 30-70 HP		
Standard 3-Blade			Lg. Diameter 3-Blade			4-Blade			Standard 3-Blade			Standard 3-Blade		
DIA x PITCH	RH P/N	LH P/N	DIA x PITCH	RH P/N	LH P/N	DIA x PITCH	RH P/N	LH P/N	DIA x PITCH	RH P/N	LH P/N	DIA x PITCH	RH P/N	LH P/N
14-3/8 x 15	993042	993052				14-5/8 x 16	993203	993213	13-3/8 x 15	993143	993153	10-3/4 x 12		993405
14-1/4 x 17	993043	993053	15-1/2 x 17	993023	993033	14-3/8 x 18	993204	993214	13-1/4 x 17	993144	993154	10-1/2 x 13		993406
14-1/8 x 19	993044	993054	15-1/4 x 19	993024	993034	14-1/8 x 20	993205	993215	13-1/8 x 19	993145	993155	10-3/8 x 14		993407
14 x 21	993045	993055	14-3/4 x 21	993025	993035	14 x 22	993206	993216	13 x 21	993146	993156	10-1/8 x 15		993408
13-7/8 x 23	993046	993056	14-5/8 x 23	993026	993036									

BALLISTIC® XHS® SERIES STAINLESS STEEL PROPELLERS

PROP SERIES A V8/V6 APPLICATIONS			PROP SERIES B V4 APPLICATIONS			PROP SERIES C		PROP SERIES D		PROP SERIES E		
Standard 3-Blade			Ballistic XL			Standard 3-Blade & XL			Standard 3-Blade		Standard 3-Blade	
DIA x PITCH	RH P/N	LH P/N	DIA x PITCH	BLD #	RH P/N	DIA x PITCH	BLD #	RH P/N	DIA x PITCH	RH P/N	DIA x PITCH	RH P/N
14-7/8 x 15	933515		14-3/4 x 22	3	953522	13-5/8 x 15	Std. 3-Blade	933415	12-3/8 x 15	933315	10-1/8 x 13	933213
14-3/4 x 17	933517	937517	14-3/4 x 24	3	953524	13-1/2 x 17	Std. 3-Blade	933417	12 x 17	933317	10-1/8 x 15	933215
14-1/2 x 19	933519	937519	14-3/4 x 26	3	953526	13-3/8 x 19	Std. 3-Blade	933419			10-1/8 x 15	933013
14-3/8 x 21	933521	937521				13-1/8 x 21	Std. 3-Blade	933421				933015
14-1/4 x 23	933523	937523	14-1/8 x 23	4	963523							
14-1/4 x 25	933525		14-1/8 x 25	4	963525	13-1/2 x 22	3-Blade XL	953422				
			14-1/8 x 27	4	963527	13-1/2 x 24	3-Blade XL	953424				

Locate Horsepower/Model and Year that corresponds with the engine application. Read across to reference XHS® / XHS II® Hub Kit & propeller series that corresponds to engine.

Engine Year & Configuration XHS® Series

Evinrude/Johnson

15 HP (E-Tec) 2011 & Newer; 20 HP 1984-1997; 25 & 30 HP 1984 & Newer; 25 & 30 HP (E-Tec) 2009 & Newer; 35 HP 1976 & Newer; 14 Tooth..... 118...E
 25 & 30 HP (4-Stroke) 2004-2007; 10 Tooth Spline..... 121...E
 40 & 50 HP (4-Stroke) 1999-2005; 13 Tooth Spline..... 115...D
 40-75 HP Small Gearcase (3-3/8") 1975-2005; 13 Tooth Spline.....111...C
 40-75 HP Large Gearcase (4-1/4") 1968 & Newer; 13 Tooth Spline..... 206...B
 60 & 70 HP (4-Stroke) 1998 & Newer; 13 Tooth Spline 210...B
 85-140 HP 1969 & Newer; 13 Tooth Spline 206...B
 90 & 115 HP (4-Stroke) 2002-2005; 15 Tooth Spline 225...B
 140 HP (4-Stroke) 2002-2005; 15 Tooth Spline 226...B
 90-300 HP, Lg. Gearcase 1976-1990; 15 Tooth Spline 201...A
 90-300 HP, Lg. Gearcase 1991 & Newer; 15 Tooth Spline 200...A
 200 & 225 HP (4-Stroke) 2004-2005; 15 Tooth Spline..... 204...A
 150-300 HP E-TEC G2 Gearcase 2014 & Newer; 15 Tooth Spline..... 228...A

Force

25 HP 1995-1998; 10 Tooth Spline 120...E
 40 & 50 HP 1995-1998; 70 HP 1991-1995; 75 HP 1996-1998; 13 Tooth 114...D
 75-150 HP 1995-1999; 85-150 HP (Dual Exhaust) 1988-1994; 15 Tooth. 202...B

Honda

BF 25 1994 & Newer; BF 30 1995 & Newer; 10 Tooth Spline 119...E
 BF 35 & 45 1991-1994; BF 40/50/50A 1995 & Newer;
 BF 60; 2010 & Newer; 13 Tooth Spline 113...D
 BF 75 & BF 90 1995-1998; 15 Tooth Spline 202...B
 BFP 60 2010 & Newer; BF 75 & BF 90 1999 & Newer; BF 100 2016 & Newer;
 BF 115 1998-2010; BF 130 1998-2004; 15 Tooth Spline..... 207...B
 BF 135-250 HP 2002 & Newer; BF 115D 2011 & Newer; 15 Tooth 207...A

Mercury/Mariner/Mercruiser

9.9, 15 HP (4-Stroke/Bigfoot/Sail) 1999-2005; 18 HP (Mercury) 1980-1985;
 20 & 25 HP (Not 4-Stroke) 1980-2005; 10 Tooth Spline..... 120...E
 25 & 30 HP (4-Stroke - Not Bigfoot) 2006 & Newer; 10 Tooth Spline ... 122...E
 25 HP Bigfoot 1999-2005; 30 HP (Sea Pro/Marathon) 1994 & Newer;
 30 HP (2- & 4-Stroke) 1994-2005; 35 HP 1984-1989; 40-50 HP 1974-1976;
 40/50/70 HP 1977-1984; 45 HP 1986-1989;
 40 & 50 HP (2- & 4-Stroke, Not Bigfoot) 1977 & Newer;
 48 HP (Mariner) All Years; 55 HP (Mercury/Sea Pro/Marathon) 1995 & Newer;
 60 HP (Not Bigfoot) 1978 & Newer; 60 HP (Mariner) 1976; 65 HP 1972-1976;
 70 HP Thru 1983; 80 HP (Mariner) 1977; 13 Tooth Spline 114...D
 40-140 HP (Except 135 HP) V4 Gearcase 1961 & Newer; 15 Tooth 202...B
 135-300 HP 1978 & Newer; 15 Tooth Spline 202...A
 Mercruiser Alpha One & Bravo One (< 400 HP); 15 Tooth Spline..... 202...A

Engine Year & Configuration XHS® Series

Nissan/Tohatsu

25 & 30 HP 1985-2001; 25 & 30 HP (4-Stroke) 2002 & Newer; 13 Tooth 122...E
 35 HP (35B Only) Thru 1984; 40 HP 1984 & Newer;
 50 HP (All Except 50C) 1992 & Newer; 13 Tooth Spline 116...D
 50 HP (50C Only) 1987-1991; 55 HP 1981-1988;
 60A 1986-1999; 70A & 70B 1981-1995; 13 Tooth Spline..... 112...C
 60-140 HP, 4-1/4" Gearcase 1987 & Newer; 15 Tooth Spline..... 209...B

OMC/Cobra Sterndrives

Model 400 Cobra 1978-1991; 13 Tooth Spline 206...B
 Model 800/Cobra/King Cobra 1978-1990; 15 Tooth Spline 201...A
 Model 800/Cobra/King Cobra 1991-1994; 15 Tooth Spline 200...A
 Cobra SX 1994 & Newer; 19 Tooth Spline 205...A

Suzuki

DT 20 & DT 25 1985-1988; DT 25C 1989-2000; DF 25A 2014 & Newer;
 DT 30 1983-1997; DT 30C 1987-1997; DF 30A 2014 & Newer;
 DF 25 & DF 30 (4-Stroke) 2000-2007; 10 Tooth 121...E
 DT 35C 1987-1989; DT 40 1983-1998; DF 40 & DF 50 (4-Stroke) 1999-2010;
 DF 40A & 50A 2011 & Newer; DT 50 & 50M 1983-1984; DT 55 1985-1997;
 DT 60 1983-1984; DF 60A 2010 & Newer; DT 65 1985-1997; 13 Tooth 115...D
 DF 60 (4-Stroke) 1998-2009; DF 70 (4-Stroke) 1998-2008;
 DT 75/85/100/115/140 1979-2001; 13 Tooth Spline 210...B
 DF 50AV/60AV 2015 & Newer; DF 90 2001-2008;
 DF 100 2009 & Newer; DF 115 2001-2012; 15 Tooth Spline 225...B
 DF 115A & 140A 2013 & Newer; DF 140 2002-2012; 15 Tooth Spline ... 226...B
 DF 70A/80A/90A 2009 & Newer; 15 Tooth Spline 227...B
 150-300 HP (Including 4-Stroke) 1986 & Newer; 15 Tooth Spline 204...A

Yamaha

20 HP 1996-1997; 25 HP 1980 & Newer; F25 (4-Stroke) 1998-2006
 F25 (4-Stroke) 2010 & Newer; 30 HP 1983-2002; 10 Tooth Spline..... 123...E
 T25 2010 & Newer; F30 (4-Stroke) 2001-2005;
 40 HP & 50 HP (Not T50) 1984 & Newer; F40 (4-Stroke) 1999 & Newer;
 48 HP 1995-2000; F50 (4-Stroke) 1995 & Newer; 55 HP 1976-1995;
 60 HP 1976-1991; F60 (4-Stroke) 1999 & Newer 117...D
 50-100 HP (Including 4-Stroke) 1984 & Newer; 15 Tooth Spline 208...B
 115 & 130 HP 1984 & Newer; F115 (4-Stroke) 2000 & Newer; 15 Tooth 203...B
 80-140 HP 1977-1983; 15 Tooth Spline 202...B
 150-175 HP 1978-1983; 15 Tooth Spline 202...A
 150-300 HP (Including 4-Stroke) 1984 & Newer; 300 HP 2004-07 203...A
 Sterndrives 1989-1993; 15 Tooth Spline 203...A

Volvo Penta

SX Sterndrives 1994 & Newer; 19 Tooth Spline 205...A

Select propeller diameter and pitch from corresponding propeller series (reverse side) that best meets your vessel and usage. Refer to MWM 2017 OBSD Catalog for specific engine years. For complete installation, select a hub kit AND a propeller.



Large Diameter propellers are great for heavier applications that require increased blade area. Apollo propellers are also available in 4-blade configurations for improved hole shot under heavier loads, and are great for pulling/towing for water sports.



Michigan Wheel's award-winning Ballistic® propellers feature characteristics of racing style propellers, including the proven Power Tip for peak efficiency. The Power Tip and cup combine to improve bite and reduce power loss, while highly cambered blade sections provide for higher speed and better bow lift. Available for a full range of applications (9.9 HP thru V6/V8 Outboard & Sterndrive), Ballistic propellers are the perfect choice for propeller upgrades.



A high performance aluminum propeller featuring high performance blade geometry, precision balanced blades and high gloss powder coat. Vortex 4-blade increase hole shot, without sacrificing top-end speed. The aggressive blade geometry combines with added cup for peak acceleration and grip, while a reduced diameter helps maintain top-end speed. With equivalent or increased performance over OEM, at a lower cost, Vortex 4-blade propellers are ideal for pontoon, and deep-v aluminum fishing boats.

Excellence in Propulsion.



MICHIGAN WHEEL

Part Number 99043417 Rev. A

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