



# VORTEX<sup>®</sup> XHS<sup>®</sup>

## PERFORMANCE PROPELLERS



A full line (9.9 HP thru V-6/V-8) of high performance, aluminum propellers with a high gloss powder coat finish, for Outboard & Stern-drive applications.

- **A Series** (V-6 / V-8)  
Available Sizes  
3-blades - 15", 17", 19", 21", 23" pitches  
4-blades - 16", 18", 20" pitches
- **B Series** (V-4 / 4-Cylinder )  
Available Sizes:  
3-blades - 10", 13", 15", 17", 19", 21" pitches
- **C Series** (20 HP to 35 HP)  
Available Sizes:  
3-blades - 13", 15", 17" pitches  
4-blades - 8", 9", 10" pitches
- **D Series** (35 HP to 80 HP)  
Available Sizes:  
3-blades - 9", 10", 11", 12", 13", 14", 15", 16" pitches  
4-blades - 8", 9", 10" pitches
- **E Series** (9.9 HP to 30 HP)  
Available Sizes:  
3-blades - 9", 10", 11", 12", 13", 14" pitches



### XHS<sup>™</sup> PROPELLER SERIES

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

# Michigan Wheel Corporation



XHS Application Chart

Note: Actual XHS<sup>™</sup> hub kit may appear differently than above picture depending on your application.

# XHS™ SERIES APPLICATION CHART

## STEP 1:

Locate Horsepower/Model and Year that corresponds with the engine application.  
Read across to reference XHS™ Hub Kit/Propeller series that corresponds to engine brand.

## XHS™ HUB KITS

Engine Year and Configuration	Hub Kit	Prop Series	Engine Year and Configuration	Hub Kit	Prop Series
<b>Evinrude/Johnson</b>			<b>Nissan/Tohatsu</b>		
20 HP 1984-97; 25/30 HP 1984 & Newer; 35 HP 1976 & Newer;			25/30 HP 1986 & Newer; 25/30 HP (4-Stroke) 2002 & Newer; 10 tooth spline	<b>122</b>	<b>E</b>
30 HP (E-Tec), 2009 & Newer; 14 tooth spline	<b>118</b>	<b>E</b>	35 HP (35B only), Thru 1984; 40 HP 1984 & Newer; 50 HP (All except 50C)		
25-30 HP (4-Stroke) 2004 & Newer; 10 tooth spline	<b>121</b>	<b>E</b>	1992 & Newer; 13 tooth spline	<b>116</b>	<b>D</b>
40, 50 HP (4-Stroke) 1999 & Newer; 13 tooth spline	<b>115</b>	<b>D</b>	50 HP (50C only) 1987-91; 55 HP 1981-88; 60A 1986 & Newer;		
40-75 HP Small Gearcase - 3-3/8", 1975 & Newer; 13 tooth spline	<b>111</b>	<b>C</b>	70A/70B, 1981 & Newer; 13 tooth spline	<b>112</b>	<b>C</b>
45-75 HP, Lg. Gearcase - 4-1/4", 1968 & Newer; 13 tooth spline	<b>106</b>	<b>B</b>	60-140 HP - 4-1/4" Gearcase, 1987 & Newer, 15 tooth spline	<b>109</b>	<b>B</b>
60-70 HP (4-Stroke) 1998 & Newer; 13 tooth spline	<b>110</b>	<b>B</b>	<b>OMC/Cobra Sterndrives</b>		
85-140 HP, V4 Gearcase - 4-1/4", 1969 & Newer; 13 tooth spline	<b>106</b>	<b>B</b>	Model 400 Cobra, 1978 - 1991, 13 tooth spline	<b>106</b>	<b>B</b>
90 & 115 HP (4-Stroke) 2003 & Newer; 15 tooth spline	<b>125</b>	<b>B</b>	Model 800/Cobra/King Cobra, 1978 - 1990, 15 tooth spline	<b>101</b>	<b>A</b>
140 HP (4-Stroke) 2003 & Newer; 15 tooth spline	<b>126</b>	<b>B</b>	Model 800/Cobra/King Cobra, 1991 - 1994, 15 tooth spline	<b>100</b>	<b>A</b>
90-140 HP, Lg. Gearcase 1976-90; 15 tooth spline	<b>101</b>	<b>A</b>	Cobra SX, 1994 & Newer, 19 tooth spline	<b>105</b>	<b>A</b>
90-140 HP, Lg. Gearcase (Includes E-Tec Engines) 1991 & Newer; 15 tooth spline	<b>100</b>	<b>A</b>	<b>Suzuki</b>		
150-300 HP 1976-90; 15 tooth spline	<b>101</b>	<b>A</b>	DT 20/25 1983-88; DT 30 1983-97; DT 30C 1987-97; DT25C 1989 & Newer;		
150-300 HP (Includes E-Tec Engines) 1991 & Newer; 15 tooth spline	<b>100</b>	<b>A</b>	DF25 & DF30 (4-Stroke), 2000 & Newer; 10 tooth spline	<b>121</b>	<b>E</b>
200 & 225 (4-Stroke) 2004 & Newer; 15 tooth spline	<b>104</b>	<b>A</b>	DT35C 1987-90; DT40 1983 & Newer; DF40 & DF50 (4-Stroke) 1999 & Newer;		
<b>Force</b>			DT50, 50M 1983-84; DT55 1985-97; DT60 1983-84; DT65 1985-97; 13 tooth spl.	<b>115</b>	<b>D</b>
25 HP 1995-98; 10 tooth spline	<b>120</b>	<b>E</b>	75-140 HP 1979 & Newer; DF60 & DF70 (4-Stroke) 1998 & Newer; 13 tooth spline	<b>110</b>	<b>B</b>
40/50 HP 1995-98; 70 HP 1991-95; 75 HP 1996-98; 13 tooth spline	<b>114</b>	<b>D</b>	DF90 & DF115 (4-Stroke), 2001 & Newer; DF 70/80/100, 2009 & Newer, 15 tooth	<b>125</b>	<b>B</b>
75-150 HP 1995 & Newer; 85-150 HP (Dual Exhaust) 1988-94; 15 tooth spline	<b>102</b>	<b>B</b>	DF140 (4-Stroke), 2002 & Newer, 15 tooth spline	<b>126</b>	<b>B</b>
<b>Honda</b>			150-300 HP (Including 4-Stroke), 1986 & Newer, 15 tooth spline	<b>104</b>	<b>A</b>
BF 25 1994 & Newer; BF 30 1995 & Newer; 10 tooth spline	<b>119</b>	<b>E</b>	<b>Yamaha</b>		
BF 35/45 1991-94; BF40/50/50A 1995 & Newer; 13 tooth spline	<b>113</b>	<b>D</b>	20 HP 1996-97, 25 HP 1980 & Newer; F25 (4-Stroke) 1998-2006;		
BF 75 & BF 90 1995-98; 15 tooth spline	<b>102</b>	<b>B</b>	30 HP 1979-2002; 10 tooth spline	<b>123</b>	<b>E</b>
BF 75 & BF 90 1999 & Newer, BF 115 & BF 130 1998 & Newer; 15 tooth spline	<b>107</b>	<b>B</b>	F30 (4-Stroke) 2001-05; 40 HP & 50 HP (not T50), 1984 & Newer; 48 HP 1995 &		
135-225 HP 2003 & Newer; 15 tooth spline	<b>107</b>	<b>A</b>	Newer; 55 HP 1976-95; F40 (4-Stroke) 1999 & Newer; F50 (4-Stroke) 1995 & Newer		
<b>Mercury/Mariner/Mercruiser</b>			60 HP 1976-91; F60 (4-Stroke) 1999 & Newer; 13 tooth spline	<b>117</b>	<b>D</b>
9.9, 15 HP (4-Stroke, Bigfoot/Sail) 1999-2005; 18 HP (Mercury) 1980-85;			T50, 1996 & Newer, 60-100 HP (Including 4-Stroke), 1984 & Newer, 15 tooth spl.	<b>108</b>	<b>B</b>
20/25 HP (not 4-Stroke) 1980 & Newer; 10 tooth spline	<b>120</b>	<b>E</b>	115-130 HP 1984 & Newer, F115 (4-Stroke) 2000 & Newer; 15 tooth spline	<b>103</b>	<b>B</b>
25-30 HP (4-Stroke - Not Bigfoot) 2006 & Newer; 10 tooth spline	<b>122</b>	<b>E</b>	80-140 HP 1978-1983, 15 tooth spline	<b>102</b>	<b>B</b>
30 HP 1994 & Newer; 35 HP 1984-89; Model 402-500 1974-84; Model 650			150-175 HP 1978-1983, 15 tooth spline	<b>102</b>	<b>A</b>
1972-76; Model 700 1977-84; 40/50 HP (2 & 4-Stroke, Not Bigfoot) 1977 & Newer;			150-250 HP 1984 & Newer (Including 4-Stroke); 300 HP 2004-07, 15 tooth spline	<b>103</b>	<b>A</b>
48 HP (Mariner) All Years; 55 HP (Mercury/Sea Pro/Marathon) 1995 & Newer;			Sterndrives 1989-1993, 15 tooth spline	<b>103</b>	<b>A</b>
60 HP (Not Bigfoot or Sea Pro) 1978 & Newer; 60 HP (Mariner) 1976;			<b>Volvo</b>		
70 HP thru 1983; 13 tooth spl.	<b>114</b>	<b>D</b>	SX Sterndrives, 1994 & Newer, 19 tooth spline	<b>105</b>	<b>A</b>
40-140 HP (except 135 HP) 4-1/4" Gearcase 1961 & Newer, XR-4, XR-6; 15 tooth	<b>102</b>	<b>B</b>			
135-300 HP, V6 Gearcase (4-3/4") 1978 & Newer, 15 tooth spline	<b>102</b>	<b>A</b>			
Mercuriser Alpha One & Bravo One (less than 400HP), 15 tooth spline.	<b>102</b>	<b>A</b>			

XHS™ Inner Hub Replacement Parts (Series A & B):

991201 Standard Replacement (Mercury Part # 835290A1)

991272 High Horsepower (Mercury Part # 850821A2 Solid Hub)

## STEP 2:

Select propeller diameter & pitch from corresponding propeller series that best meets your vessel and usage. For complete installation, select a hub kit **AND** a propeller.

## PROPELLER SERIES

PROPELLER SERIES A				PROPELLER SERIES B				PROPELLER SERIES C				PROPELLER SERIES D						PROPELLER SERIES E					
Standard 3 & 4-Blade				Lg. Diameter 3-Blade				Standard 3-Blade				Standard 3 & 4-Blade			NEW 3-Blade			Standard 3-Blade					
DIA. x PITCH	BLD#	PART #		DIA. x PITCH	BLD#	PART #		DIA. x PITCH	BLD#	PART #		DIA. x PITCH	BLD#	PART #		DIA. x PITCH	BLD#	PART #		DIA. x PITCH	BLD#	PART #	
15-1/4 x 15	3	992002		14 x 10	3	992109		11-1/2 x 8	4	992401		11-1/2 x 8	4	992401		12-1/4 x 9	3	992601		10-1/2 x 9	3	992501	
15 x 17	3	992003		14 x 13	3	992112		11-1/2 x 9	4	992402		11-1/2 x 9	4	992402		11-3/4 x 10	3	992602		10-1/2 x 10	3	992502	
14-1/2 x 19	3	992004		13-3/4 x 15	3	992113		11-1/2 x 10	4	992403		11-1/2 x 10	4	992403		11-5/8 x 11	3	992603		10-1/2 x 11	3	992503	
14-1/4 x 21	3	992005		13-1/4 x 17	3	992114		11-3/4 x 13	3	992301		10-3/8 x 11	3	992404		11-3/8 x 12	3	992604		10-1/8 x 12	3	992504	
14 x 23	3	992006		13 x 19	3	992115		11-3/4 x 15	3	992302		10-3/8 x 12	3	992405		11-1/8 x 13	3	992605		10-1/8 x 13	3	992505	
15 x 16	4	992202		12-3/4 x 21	3	992116		11-3/4 x 17	3	992303		10-3/8 x 13	3	992406		11-1/4 x 14	3	992606		10-1/8 x 14	3	992506	
14-1/2 x 18	4	992203						12-1/2 x 13	3	992311		10-3/8 x 14	3	992407									
14 x 20	4	992204						12-1/4 x 15	3	992312		10 x 15	3	992408									
												10 x 16	3	992409									

NOTE: If this reference does not include your application, please see Michigan Wheel Corp., Application Catalog.

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