



## ALUMINIUM PROPELLERS



### STAINLESS STEEL PERFORMANCE AT ALUMINUM PRICES

Stainless steel blade geometry used in all aluminum patterns results in less blade flex. Higher efficiency equals better fuel economy, better top end, faster hole shot, and excellent cornering & handling.

### TUNED VENTS FOR FAST HOLE SHOT

Vent holes in the prop's barrel allow exhaust gases to escape, reducing water density around the propeller's blades during acceleration. This causes the propeller to rotate faster at slower speeds resulting in more HP. More HP at lower speeds means faster acceleration and a faster hole shot. Turning Point is the only manufacturer offering this race proven feature in our Hustler & Legacy Aluminum Propellers. Available on most models, please refer to selection chart.

### PERFORMANCE TUNED RAKE ANGLES

Higher rake angles tighten the vortex produced by the prop, adding to boat lift and overall performance.

### IMPROVE HANDLING AND BOAT LIFT

Through advanced pitch line and rake line cupping.

### HIGH FLOW-THROUGH BARREL EXHAUST SYSTEM

Maximizing exhaust flow increases horsepower and top end speed.

### TUNED PROGRESSIVE PITCH ANGLES

Accelerating and channeling water to minimize slip increases performance and fuel economy.

### LONG LASTING FINISH - POWDER COATED

The 5 step process creates a uniform, durable, high-quality, and attractive finish that protects the aluminum from corrosion.

### COMPATIBLE WITH COMPETITORS' HUB SYSTEMS

Works with Mercury® Flow-Torq®, Michigan Wheel® XHS®, Solas® Rubex™ hub kit systems (All trademarks are the property of their respective owners). NOTE: Not applicable with Turning Point's 10, 20 and 200 Hub Kit series.

Hub Kit Available for Aluminum

Turning Point offers its unique hub and housing system from 8HP to 300+HP, a range of engines un-matched in the industry. Hub kit covered by USA & worldwide patents

Utilizing high tech shock absorbing polymers and a solid brass spindle, the Turning Point MasterGuard & MasterTorque hubs will not corrode or break like competing hubs, and are covered by an industry leading Lifetime Warranty. Each hub's one piece design ensures simple housing replacement, making a prop change quick and easy.



## SQUEEZE CAST FOR ADDED STRENGTH

Turning Point Exclusive Process applied to all aluminum props - Squeeze Cast process generates the highest mechanical properties attainable in a cast product, resulting in tighter grain structures. Competitors use old Die Cast processes that results in high blade flex and poor performance.



**TURNING POINT EXCLUSIVE PROCESS · TIGHT GRAIN · STRONG AND STIFF · REDUCES FLEX FOR MAXIMUM THRUST**



**COMPETITORS' PROCESS · POCKETS, VOIDS, AIR BUBBLES · WEAK AND FLEXIBLE · INEFFICIENT TRANSFER OF POWER · POOR REPAIRABILITY**



## FOUR BLADE ALUMINUM HUSTLER PROPELLER

New Four Blade Design uniquely engineered with two blade geometries: two blades utilize the Hustler high performance variable rake and aggressive pitch design for incredible hole shot and cornering, and two blades utilize a "cleaver" style shape for high speed and maximum stern lift.

This combination results in the highest performance aluminum propeller on the market, unmatched in cornering, acceleration, boat handling, and top speed. This is the ultimate water sports propeller, but also offers any boater four blade performance with none of the usual top speed reductions normal to other designs.



## HUB

### ELIMINATE HUB SYSTEM VIBRATION & CHATTER

Innovative one-piece design reduces the number of parts and eliminates failures commonly seen in multi-part hub systems.

### ELIMINATE HUB CRACKING & FAILURE

The glass reinforced high-tech polymer construction increases flexibility, eliminating potential material stress fractures.

### CORROSION RESISTANT MATERIALS

Premium corrosion resistant brass splines.

### REDUCE GEAR SHOCK & ENGINE/DRIVE DAMAGE

Shock absorbing hi-tech polymer cushion.

### REDUCES INVENTORY COST

Turning Point is the only manufacturer to offer the hub and housing system down to 8HP outboard applications.

### REDUCE PROP REPLACEMENT COST BY 20-30%

Hub kits are designed to be reusable even after most propeller impacts, eliminating the need to replace the hub system when replacing a damaged propeller.

### EASY TO INSTALL – CONSUMER FRIENDLY

Clear and easy step by step directions coupled with minimal parts makes installation easy.

### INCREASES PERFORMANCE AND HP

High-flow through barrel exhaust system maximizes exhaust flow increasing horsepower and top end speed.



### INTERCHANGEABLE AVEC LES HÉLICES CONCURRENTES INTERCHANGES WITH OTHER MANUFACTURERS' PROPELLERS

Upgrades and replaces Mercury® Flow-Torq®, Michigan Wheel® XHS®, Solas® Rubex™ hub kit systems (All trademarks are the property of their respective owners). NOTE: Not applicable with Turning Point's 10, 20 and 200 Hub Kit series.



### REDUCES 25-75HP HUB INVENTORY BY ALMOST 60%

Competitor's hub kit systems take 7 kits to fit engine applications in the 25-75HP range, where Turning Point only needs 3 kits (10 Series Hub Kits).

US Patent #6,471,481, #6,685,432 & worldwide patents.

US and worldwide patents pending.



### 500 SERIES HUB SYSTEM

40 - 300+ HP

### 10 SERIES HUB SYSTEM

40 - 75 HP



### 20 SERIES HUB SYSTEM

20 - 35 HP



### 200 SERIES HUB SYSTEM

8 - 18 HP





## STAINLESS STEEL PROPELLERS

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Engine	Year	Hub ref.	OEM Ref.	Ø x Pitch	Propeller Ref.
<b>8 TO 18 HP - HUSTLER - ALUMINIUM</b>					
14 Splines					
9.9 HP 2 Strokes	84 & +	<b>HHB 207</b>			
12 HP 2 Strokes	85/88	<b>HHB 207</b>	362-64102-0	9 x 9	<b>HHB R4 0909</b>
15 / 18 HP 2 Strokes	85 & +	<b>HHB 207</b>	362-64108-0	9 x 10	<b>HHB R4 0910</b>
9.9 / 15 / 18 HP 4 Strokes	All	<b>HHB 207</b>			
12 Splines					
8 & 9.8 HP 2 & 4 Strokes	All	<b>HHB 208</b>	3B2W645171 3B2W645180	9 x 9 9 x 10	<b>HHB R5 0909</b> <b>HHB R5 0910</b>
<b>20 TO 35 HP - HUSTLER - ALUMINIUM</b>					
10 Splines					
25 HP	86 & +	<b>HHB 28</b>	346-64102-5	10-3/8 x 11	<b>HHB R2 1011</b>
30 HP	85 & +	<b>HHB 28</b>	346-64104-5	10-3/8 x 13	<b>HHB R2 1013</b>
<b>40 TO 75 HP - HUSTLER - ALUMINIUM</b>					
13 Splines					
40C	84/98	<b>HHB 13</b>			
40D	91 & +	<b>HHB 13</b>			
50C	87/91	<b>HHB 13</b>	34864-1070M	12-1/2 x 8	<b>HHB H1 1208</b>
50D	87 & +	<b>HHB 13</b>	34864-1020M	12 x 10-1/2	<b>HHB H1 1210</b>
60A	86 & +	<b>HHB 13</b>	35364-1030M	10-7/8 x 11	<b>HHB H1 1011</b>
60B	93/97	<b>HHB 13</b>	35364-1040M	10-3/4 x 12	<b>HHB H1 1012</b>
70A	All	<b>HHB 13</b>	35364-1050M	10-1/2 x 13	<b>HHB H1 1013</b>
70B	81 & +	<b>HHB 13</b>	35364-1060M	10-3/8 x 14	<b>HHB H1 1014</b>
			35364-1070M	10-1/8 x 15	<b>HHB H1 1015</b>
<b>40 TO 150 HP - HUSTLER - ALUMINIUM</b>					
15 Splines					
60C	< 99	<b>HHB 505</b>	/	14 x 11	<b>HHB LE1 1411</b>
70C	All	<b>HHB 505</b>	/	14 x 13	<b>HHB LE1 1413</b>
90 HP	87 & +	<b>HHB 505</b>	3B764-5320M	13-3/4 x 15	<b>HHB LE1 1315</b>
115 HP	92 & +	<b>HHB 505</b>	3B764-5410M	13-1/4 x 17	<b>HHB LE1 1317</b>
120 & 140 HP	88 & +	<b>HHB 505</b>	3B764-5450M	13-1/4 x 19	<b>HHB LE1 1319</b>
			/	13-1/4 x 21	<b>HHB LE1 1321</b>
<b>40 TO 75 HP - EXPRESS - INOX</b>					
13 Splines					
40C	84/98	<b>HHB 13</b>			
40D	91 & +	<b>HHB 13</b>	/	12 x 9	<b>HHB E1 1209</b>
50C	87/91	<b>HHB 13</b>	/	12 x 11	<b>HHB E1 1211</b>
50D	87 & +	<b>HHB 13</b>	/	12 x 13	<b>HHB E1 1213</b>
60A	86 & +	<b>HHB 13</b>	NM889410110	10-1/2 x 11	<b>HHB E1 1011</b>
60B	93/97	<b>HHB 13</b>	NM889410120	10-1/2 x 12	<b>HHB E1 1012</b>
70A	All	<b>HHB 13</b>	NM889410130	10-1/2 x 13	<b>HHB E1 1013</b>
70B	81 & +	<b>HHB 13</b>	NM889410140	10-1/2 x 14	<b>HHB E1 1014</b>
			NM889410150	10-1/2 x 15	<b>HHB E1 1015</b>
<b>40 TO 150 HP - EXPRESS - INOX</b>					
13 Splines					
60C	< 99	<b>HHB 505</b>	/	14 x 11	<b>HHB PA1 1411</b>
70C	All	<b>HHB 505</b>	/	14 x 13	<b>HHB PA1 1413</b>
90 HP	87 & +	<b>HHB 505</b>	NM889610150	13-1/4 x 15	<b>HHB PA1 1315</b>
115 HP	92 & +	<b>HHB 505</b>	NM889610170	13-1/4 x 17	<b>HHB PA1 1317</b>
120 & 140 HP	88 & +	<b>HHB 505</b>	NM889610190	13-1/4 x 19	<b>HHB PA1 1319</b>
			NM889610210	13-1/4 x 21	<b>HHB PA1 1321</b>