

**SPURS**

Marine Manufacturing Inc. 201 SW 33rd Street Ft. Lauderdale, FL 33315 USA

[www.spursmarine.com](http://www.spursmarine.com) email [spurs@spursmarine.com](mailto:spurs@spursmarine.com) phone +1-954-463-2707

- 1) Prior to installation the face of the propeller hub must be completely cleaned of any growth, or debris. If need it



- 2) Rotary cutter blades and face plates are then installed on propeller hub using provided bolts. Coat with anti-corrosive "Tef-Gel" to prevent galling and galvanization.



**SPURS**

Marine Manufacturing Inc. 201 SW 33rd Street Ft. Lauderdale, FL 33315 USA spurs cutters are protected by USA and International patents.

Logo is a trademark of Spurs Marine Manufacturing Inc Copyright© All rights reserved.

Phone +1-954-463-2707 Fax +1-954-5250239 email [Spurs@spursmarine.com](mailto:Spurs@spursmarine.com)



Marine Manufacturing Inc. 201 SW 33rd Street Ft. Lauderdale, FL 33315 USA

[www.spursmarine.com](http://www.spursmarine.com) email [spurs@spursmarine.com](mailto:spurs@spursmarine.com) phone +1-954-463-2707

- 3) The joints between the rotary cutters and face plates are tack welded to form a ring. This adds significant strength to the system.



- 4) The rope guard is then installed. With top half first. Even spacing of 1/8" is needed between the forward edge of the rope guard, and the face plates.



Marine Manufacturing Inc. 201 SW 33rd Street Ft. Lauderdale, FL 33315  
USA spurs cutters are protected by USA and International patents.

Logo is a trademark of Spurs Marine Manufacturing Inc Copyright© All rights reserved.

Phone +1-954-463-2707 Fax +1-954-5250239 email [Spurs@spursmarine.com](mailto:Spurs@spursmarine.com)

**SPURS**

Marine Manufacturing Inc. 201 SW 33rd Street Ft. Lauderdale, FL 33315 USA

[www.spursmarine.com](http://www.spursmarine.com) email [spurs@spursmarine.com](mailto:spurs@spursmarine.com) phone +1-954-463-2707

- 5) The bottom half of the rope guard is then installed, keeping the same spacing as the top from the rotary cutters and face plates



- 6) After the rope guard welds have cooled, one of the rotary cutters is then aligned with the stationary cut-out. The stationary cutter assembly is then dropped into the cut-out and married to the rotary cutter blade with 3/18" shoulder bolts and three pairs of vise grips to ensure that it will not move during welding.



**SPURS**

Marine Manufacturing Inc. 201 SW 33rd Street Ft. Lauderdale, FL 33315  
USA spurs cutters are protected by USA and International patents.

Logo is a trademark of Spurs Marine Manufacturing Inc Copyright© All rights reserved.

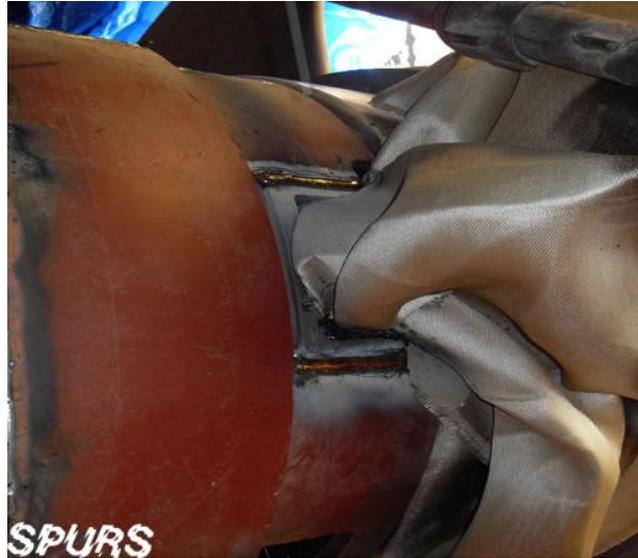
Phone +1-954-463-2707 Fax +1-954-5250239 email [Spurs@spursmarine.com](mailto:Spurs@spursmarine.com)

**SPURS**

Marine Manufacturing Inc. 201 SW 33rd Street Ft. Lauderdale, FL 33315 USA

[www.spursmarine.com](http://www.spursmarine.com) email [spurs@spursmarine.com](mailto:spurs@spursmarine.com) phone +1-954-463-2707

- 7) The stationary cut-out assembly is then tack welded in six places, in a specific sequence, and allowed to cool. It is then welded on both sides alternating back and forth welding about an inch at a time on each side until both sides are fully welded.



- 8) After the welds are allowed to cool, the shoulder bolts and vise grips are removed. (4) Alignment screws are used to bring the stationary blade parallel to the rotary blade .10" apart. Once aligned tighten (4) holding screws that attach the stationary blade assembly to the stainless box.



**SPURS**

Marine Manufacturing Inc. 201 SW 33rd Street Ft. Lauderdale, FL 33315  
USA spurs cutters are protected by USA and International patents.

Logo is a trademark of Spurs Marine Manufacturing Inc Copyright© All rights reserved.

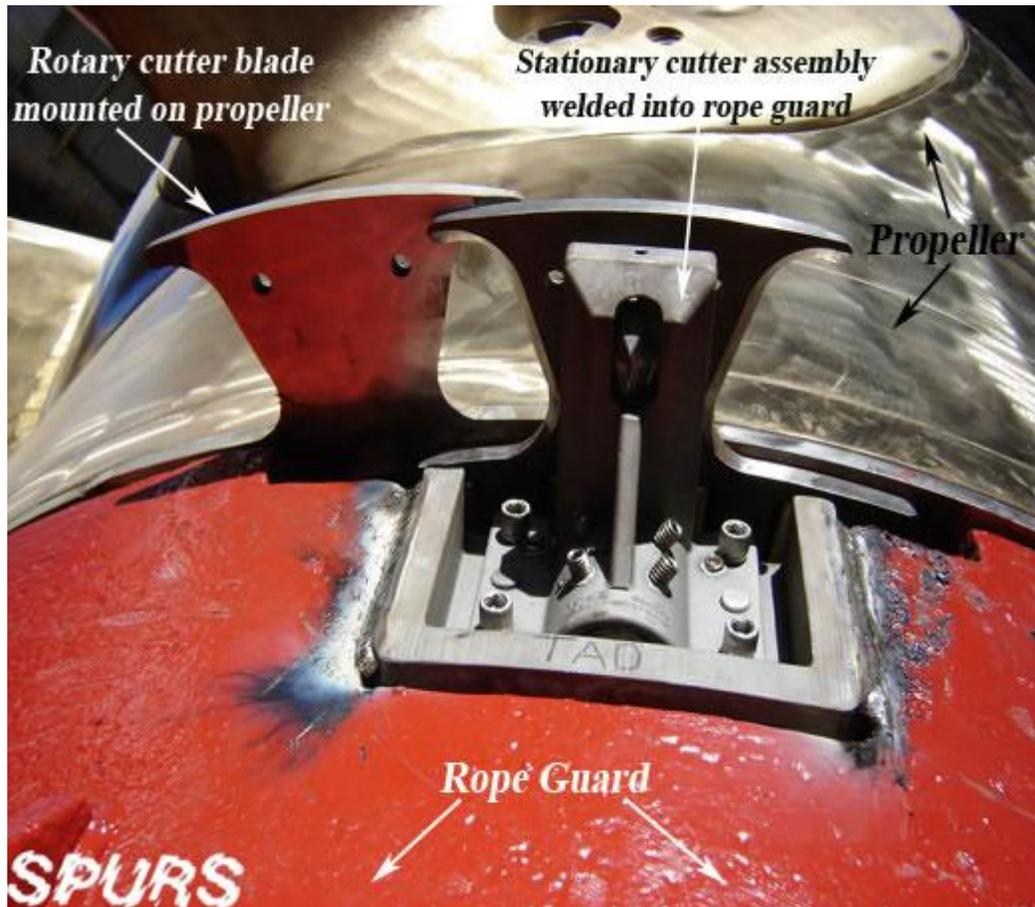
Phone +1-954-463-2707 Fax +1-954-5250239 email [Spurs@spursmarine.com](mailto:Spurs@spursmarine.com)



Marine Manufacturing Inc. 201 SW 33rd Street Ft. Lauderdale, FL 33315 USA

[www.spursmarine.com](http://www.spursmarine.com) email [spurs@spursmarine.com](mailto:spurs@spursmarine.com) phone +1-954-463-2707

- 9) Once the Spurs cutter system installation is completed a full rotation of the propeller is made to insure .010" spacing between all rotary cutter blades and stationary cutter blades.



Note: this is to help visualize the drawing for reference only, some cutters systems has 4 rotary blades some has 2, please refer to your drawing.

Any questions please visit our website for interactive assembly or contact us directly



Marine Manufacturing Inc. 201 SW 33rd Street Ft. Lauderdale, FL 33315  
USA spurs cutters are protected by USA and International patents.

Logo is a trademark of Spurs Marine Manufacturing Inc Copyright© All rights reserved.

Phone +1-954-463-2707 Fax +1-954-5250239 email [Spurs@spursmarine.com](mailto:Spurs@spursmarine.com)