

**REDWOOD
PLASTICS**
CORPORATION



**INSTALLATION
MANUAL
& SPARE
PARTS LIST**



SHARK FIN™
BOARD TURNING SYSTEMS

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SHARK FIN™
BOARD TURNING SYSTEMS

PARTS SUPPLIED



Shark Fin Lugs. (Double Pulp Safe SPS)
(Red, Blue, Yellow & Green)



Hi Side UHMW Channel



Board Turner Assemblies
(Double Pulp Safe SPS)



Lineal Feet of 81x Chain



1" Steel Roller Pins & HD retainer clips



Redco 750 (Double Pulp Safe SPS) Split Drive
Sprockets



Redco 750 (Double Pulp Safe SPS) Split Idler
Sprockets



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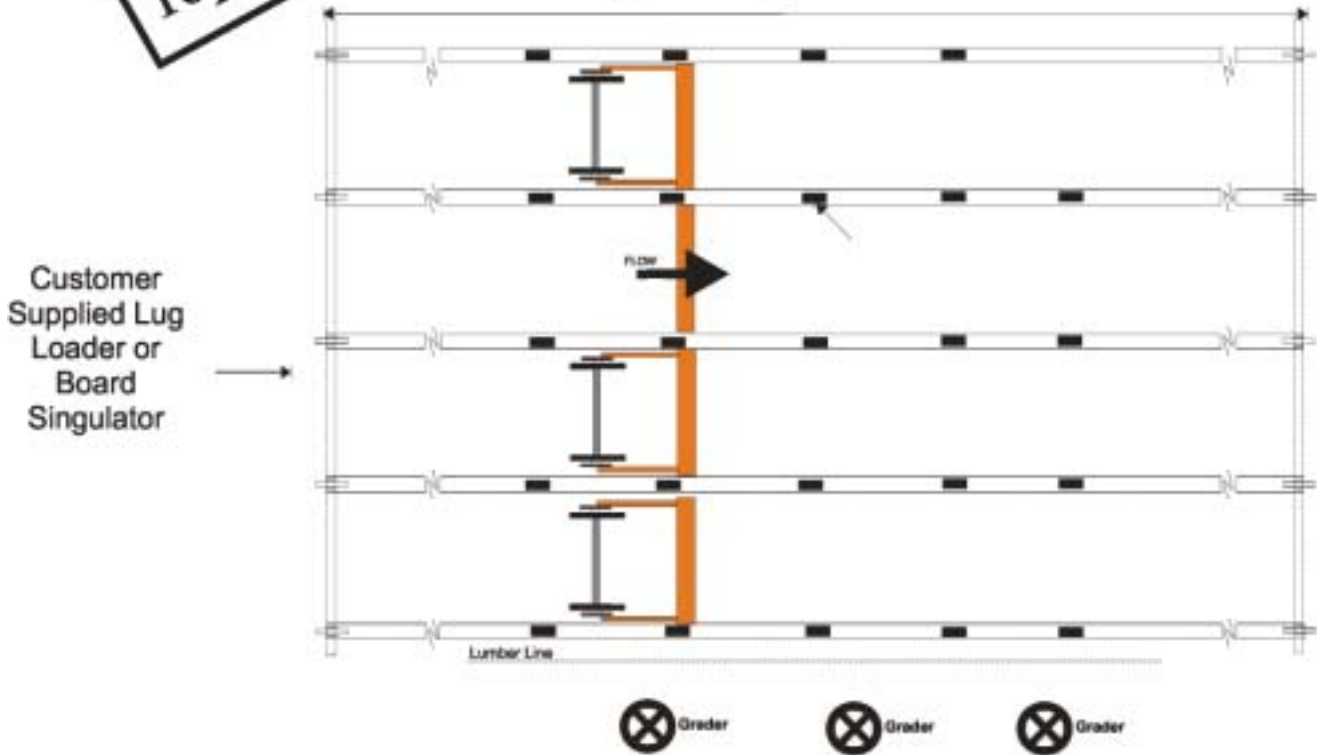
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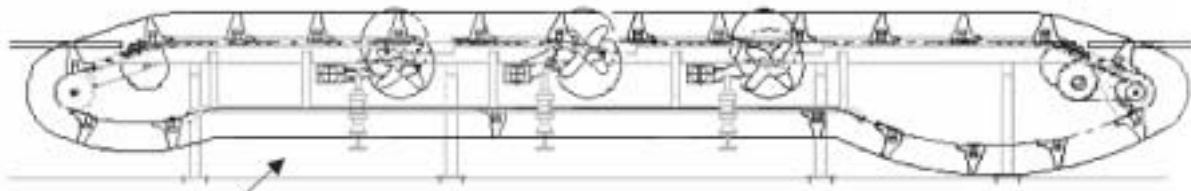
System
Top View

Shark Fin™ Diagram 1 grader System



Optional - Fade In

Optional - Fade Out



**Chain Sag Eliminated
with this Return**



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UNDERSTANDING SHARK-FIN

Shark Fin Automatic Board Turning Systems are NON MECHANICAL.

This simply means that inertia turns the boards NOT chains, belts or gears.

The following are **NOT** to be altered when installing a Shark Fin System:

- DO NOT** Add any weighted objects to the “*Star*”Turners.
- DO NOT** Grease the turning stars to slow them down.
- DO NOT** Remove any “*Stars*”, it is a balanced set & will cause uneven bearing wear.
- DO NOT** Add brushes, springs etc. To slow down the “*Stars*”this restricts the turners from “*Tracking*”the boards.
- DO NOT** Use air bags unless you are absolutely sure of their performance. Definitely not on Timbers.
- DO NOT** Use chain tensioner that restrict the lugs from tilting back.



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INSTALLATION

***Assumption by Shark Fin™ that your mill is prepared to load the SF Lugs on the grading table Infeed. This is the mills responsibility.**

- 1) Your existing grading table is to be prepared in exactly the same way as if you were replacing the grading chain.
- 2) Remove any existing chain channel (plastic or steel) and install the yellow UHMW High Side channel supplied with this order. (see Installation Tips #2). This is a must.
- 3) Replace existing sprockets with new Redco 750 split sprockets. The use of these sprockets is at the request of Worker's Compensation for quiet running
- 4) Re-string the new Shark Fin™ chain supplied with this order.
- 5) Install Shark Fin™ lugs make sure that the curved faces of the SF lugs go in the same direction as the flow.
- 6) If your Shark Fin™ system is color coordinated please be sure to install the colors to be the same repeats every time. Also be sure the board turner of the same color "Pop's Up" when the lug of the same color delivers the board. (Use a straight edge for equal turner height across table.
- 7) Synchronize your chains and test run.
- 8) After you are satisfied with the positioning of the stars and turners weld star collars to shaft.

To Place the Board Turner Assemblies

To adjust the board turner assembly, please follow the Elevation Diagram on page 8. For final adjustments see "Tip # 4"

* 2) For "pop up" board turning assemblies install as per Drawing #1 supplied. Identify where the Graders will be positioned prior to installing the shafts. Fine tuning adjustments are to be as outlined in the drawing as to exact height etc.

Programming the "Pop up" action should be done by a programmer of your choice and is the responsibility of the mill.

Start Up!



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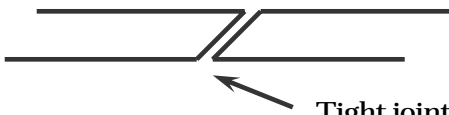


SHARK FIN™
BOARD TURNING SYSTEMS

INSTALLATION TIPS

1) Always check prior to beginning your install that the chain (with pins) supplied with this order, is the same length you require. (Do not alter this chain, it is balanced) use the take ups on your table.

2) If you have to join the Hi Side Channel use bias cuts in reverse flow manner.
Chain -----> Flow



Tight joint required
This system will not allow channel to "Tear up".

3) If you are unable to replace your existing sprockets, it is not mandatory; however they are a part of the Shark Fin™ Complete system and are not returnable.

4) Once the elevation has been set and if larger timbers are not turning properly, raise the assemblies. Once every board is turning properly (fine tune to suit your production) then lock securely in place.

Important

5) If your boards are not being turned or are standing on end, raise your board turners in quarter inch increments until the problem is solved.

***NOTE: All Drawings supplied are "Generic Drawings".
Please correct measurements to suit your mill**



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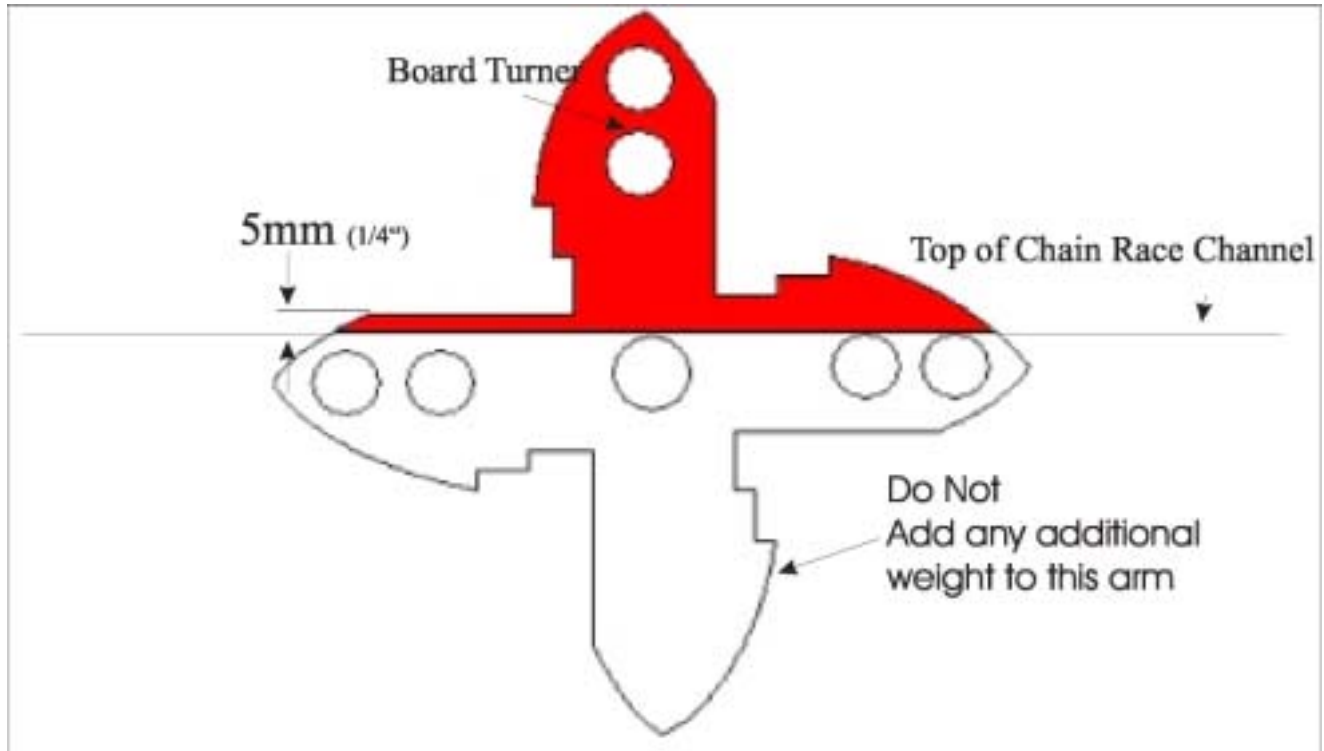
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SHARK FIN™
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Shark Fin™ Turner Elevation Detail



Please Note: Be sure when positioning the turners the air/hydraulic cylinder is fully extended. **Note: We do not recommend the use of Air Bags on Pop up Systems.

IMPORTANT NOTE:

If your boards are not being turned or are standing on end **Raise all board turners in quarter inch increments** until they are turning correctly.

And

When **setting timing** for Pop up systems focus **on the trailing edge** of the board and **not** the leading edge.



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Fine Tuning Your Shark Fin™ System

NOTE: Shark-Fin™ is designed for high speeds. Do NOT test at speeds lower than 35 lugs per minute (lpm) as you will receive unfavorable results.

- 1) If the boards are being tripped by the “Star” prior to turning.
The Solution is
Check the Timing as the “Pop Up” system is rising to early.
- 2) If the Boards “Stand on End” and don’t complete the turn
The Solution is
Raise the “Board Turner” assembly in 1/4” increments until the widest board turns completely.

NOTE: Refrain from lowering the “Board Turner” – this is NOT accurate.

- 3) If the Boards “Snap” out of the Board Turner causing it to “Spin Rapidly.”
The Solution is
Adjust the timing of the Board Turner as it is “Dropping out too quickly.”

Any Questions Please Call Us



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SHARK FIN™
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Shark Fin™ Spare Parts

Spare Parts Kit # SFK - 1

3



Shark Fin™ Lugs

(Please state color - Red, Blue, Green, Yellow or Black)

1



Shark Fin™ Stars

(Please state color)

(6) Retainer Clips Included
For Shark Fin™ Lugs

Spare parts are available from

Redwood Plastics Corporation



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Shark Fin™ Limited Warranty

Covers replacement of defective parts only. This warranty does not cover parts affected by loss or damage.

The customer is responsible for steel fabrication, air/hydraulic and electronic installation or revisions as required on their grading table upgrade.

The customer is also responsible for installation, in feed and out feed of the Shark Fin™ lugs, all steel and fabrication work required to accomplish a successful application.

Note: That our standard limitation of liability apply to shark fin™ as to all Redco Products.

Note: Downtime Liability will NOT be accepted by shark fin™. It will be considered completely manual operation in the event any products are damaged or lost.

No liability for the “pop-up” operation or the electronic timing, will be accepted by Shark Fin™, for any reason.

Redwood warrants that the products will be manufactured in a good and workmanlike manner, in accordance with the specifications of Redwood or the customer, as the case may be. This warranty is in lieu of all other warranties, written, oral, statutory, express or implied, including, without limitation, warranties of merchantability and of fitness for a particular purpose. Redwood's liability shall be limited to the replacement of the goods and customer shall not have any claim for damages arising out of the use or the operation of the goods, whether on or in contract; and without limiting the foregoing, Redwood shall not be liable for any indirect, special or consequential damages of any nature or kind whatsoever, including business, economic or other loss.



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Diagram #1



2 -20' foot sections from a 20' mill



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Thank You for Your **Shark Fin**TM Order!

If you have any further questions or concerns please call.



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