

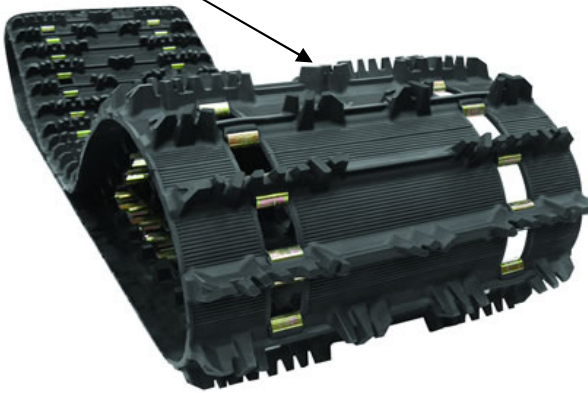
# NORTEC STUD FORCE **Twister** Screw-In Lug Studs Series

There's a NEW stud in town.  
No more drilling holes in your track.



- Aggressor Point:** For maximum traction and ice penetration. Aggressor point manufactured with tungsten carbide. Long lasting and durable.
- Built in washer / Backing Plate:** Washer is manufactured into stud, aids in quick installation. Washer also reduces the chance of stud being driven into track.
- Heat-Treated Steel Body:** For wear and durability
- Double Wrap Tread Design:** Reduces stud pull out.
- Built in Drill Bit:** Easy to install, no pre-hole drilling required.

Special Note: Lug has to be 1/2" wide or greater.



Twister provides extra breaking and control for snowmobiles on snow and ice.

*Our story: Nortec Stud Force has been providing traction control studs to the industrial / commercial industry for years. Power units such as skid steer, tractor and snow groomers such as Tucker Snow Cats and Piston Bulllys. Stud Force can even be found on the Zamboni ice resurfer.*

*Taking this stud technology and applying it to the snowmobile industry we are on the right track! One of the biggest differences is the Aggressor pointed tooth design. This carbide tooth is long lasting and provide years of use. Sometimes due to low snow conditions, road running, track spinning and crossing over blacktop roads, wear will occur and break the traditional stud. Thanks to Twisters large carbide head wearability is greatly reduced. Future stud technology is here*

- T50 1/2" stud - Lugs less than 1"
- T75 3/4" stud - Lugs 1" to 1-1/4"
- T100 1" stud - Lugs over 1-1/4"

Package Quantites: 100, 250, 500

## Extremely Easy Installation

Tools Needed: Cordless Drill and Hex Socket. Note: Nortec offers a special deep-recess socket and adapter installer.



Drilling holes in a track



For More Information  
Call Stud Girl:  
**715-623-6300**



Not all carbide and material is created equal. Nortec only uses America materials in our manufacturing process to assure customer quality.

NORTEC reserves the right to change design or specifications without notice. Information contained herein is general in nature and is not intended for specific application purposes.

Photographs contained herein may be displayed with safety and/or guards removed to show mechanical functions.

Literature # DC180409 Side 1

Stud Force Twister Series (North American Version)

Litho in USA

## There's a NEW stud in town.

**Nortec Snow Force Twister series of studs.** You're on the right when it comes to wear and performance needs. This industry leading screw in stud will last for several seasons. Easy to install, most installations can be performed in less than an hour. All you need is basic instruction of the installation method. Requires a cordless drill and a 5/16 socket. Nortec offers a special installation tool to make the job go faster and easier. Bonus: they don't require tunnel protectors.

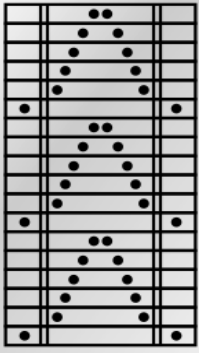
**You're on the right track choosing the Stud Force Twister series of studs.** Gone are the days of pre-drilling holes in your track, compromising the track's integrity. With today's high profile tracks, push thru studs have to be longer which causes track flexing and the possibility of busting out and leaving gaping holes in the track. No need to pre-drill holes in your track with the Twister stud. The Twister studs are installed in the track lug. Special Note: Lug has to be 1/2" thick or greater. Mounting on the lug provides for increased bite and traction control.

**Increased performance.** Push-thru studs with current high profile snowmobile tracks are longer which increase weight and cost. The increased weight adds stress on the track. Stud Force Twister offers a lower cost and less weight, not to mention reduced installation time.

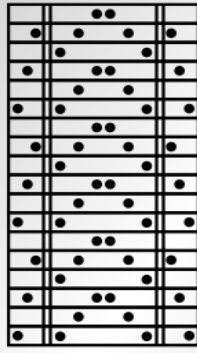
## *What is carbide?*

Carbide (chemical formula: WC) is a chemical compound (specifically, a carbide) containing equal parts of tungsten and carbon atoms. Can be pressed and formed into shapes for use in industrial machinery, cutting tools, abrasives, armor-piercing rounds, other tools and instruments, and jewelry. Carbide is often used in armor-piercing ammunition, especially where depleted uranium is not available or is politically unacceptable. Tungsten carbide is extremely hard, ranking about 9 on Mohs scale. It has an ultimate tensile strength of 344 MPa,[8] an ultimate compression strength of about 2.7 GPa and a Poisson's ratio of 0.31.[16]

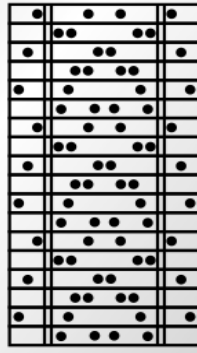
# TRACK STUD PATTERNS



**96**



**144**



**192**

You want your sled to perform in a way that's comfortable for you so that you can get the best performance out of it for your riding style.

Shown are basic studding patterns for 2,3 or 4 studs per lug. These will work well in most applications. The most important thing to remember is to maintain the arrow-head or wedge shape when drilling and installing the studs so that you keep the traction balanced and the sled won't push to one side or the other.

\*\*\* Too many studs will cause the stud to push and you can't turn. This is the worst situation.

\*\*\* Too few studs will leave your back end "loose" and it'll slide out from under you, causing you to lose control.

It's better to start out with fewer studs and add more if you need them.



## WARNING

WHEN INSTALLING OR RE-STUDDING A TRACK, ALWAYS TEST THE TRACTION IN A SAFE MANNER TO BE SURE THAT IT'S HANDLING THE WAY YOU WANT IT TO HANDLE.

There are many different factors that will determine how many studs to install on your sled:

✧ Size/horsepower of the motor    ✧ Length of carbide runners on the skis    ✧ Your riding style, habits and where you ride

Taking all these factors into consideration, here are some simple guidelines for how many studs to install initially – then TEST DRIVE your sled to see if that works for you.

**Trail/touring** – 2 studs per lug

**Performance** – 2-3 per lug

*Special Note: If you decide on 3 per lug, it's easier to install and keep the pattern balanced if you go 2-4-2. This will give you the same number of studs, but will keep the pattern balanced.*

**Expert/extreme** – for this style of riding in extreme conditions, studding is very important.

*Special Note: If you install less than 3 studs per lug, you risk damage to your track due to the high forces your riding is putting on the track. We recommend that you consider 4 studs per lug to spread out the forces on the track and also to provide the traction that your style of riding demands.*



## WARNING

Do not put too many studs in the outside belts as that will make your sled tippy



## WARNING

Check with your dealer and/or owner's manual for any special installation instructions



## WARNING

Check with your dealer to see if tunnel protectors have been factory-installed. If not, have your dealer install them. DO NOT install traction on a sled that doesn't have tunnel protectors.



## WARNING

NOTE!! DO NOT install studs in any lug or part of the lug less than 1/2" thick.



## WARNING

Studs dictate when and how your snowmobile turns. Important you test for your breaking and riding needs.