

EVOLUTION EDGES™

VST™ Poly-Carbide Cutting Edge Innovation

VST™
Vibration
Suppression
Technology



"Our innovative VST™, Vibration Suppression Technology, is a steel carbide cutting edge and secondary cover blade adhered in a proprietary polyurethane as one complete cutting edge system."

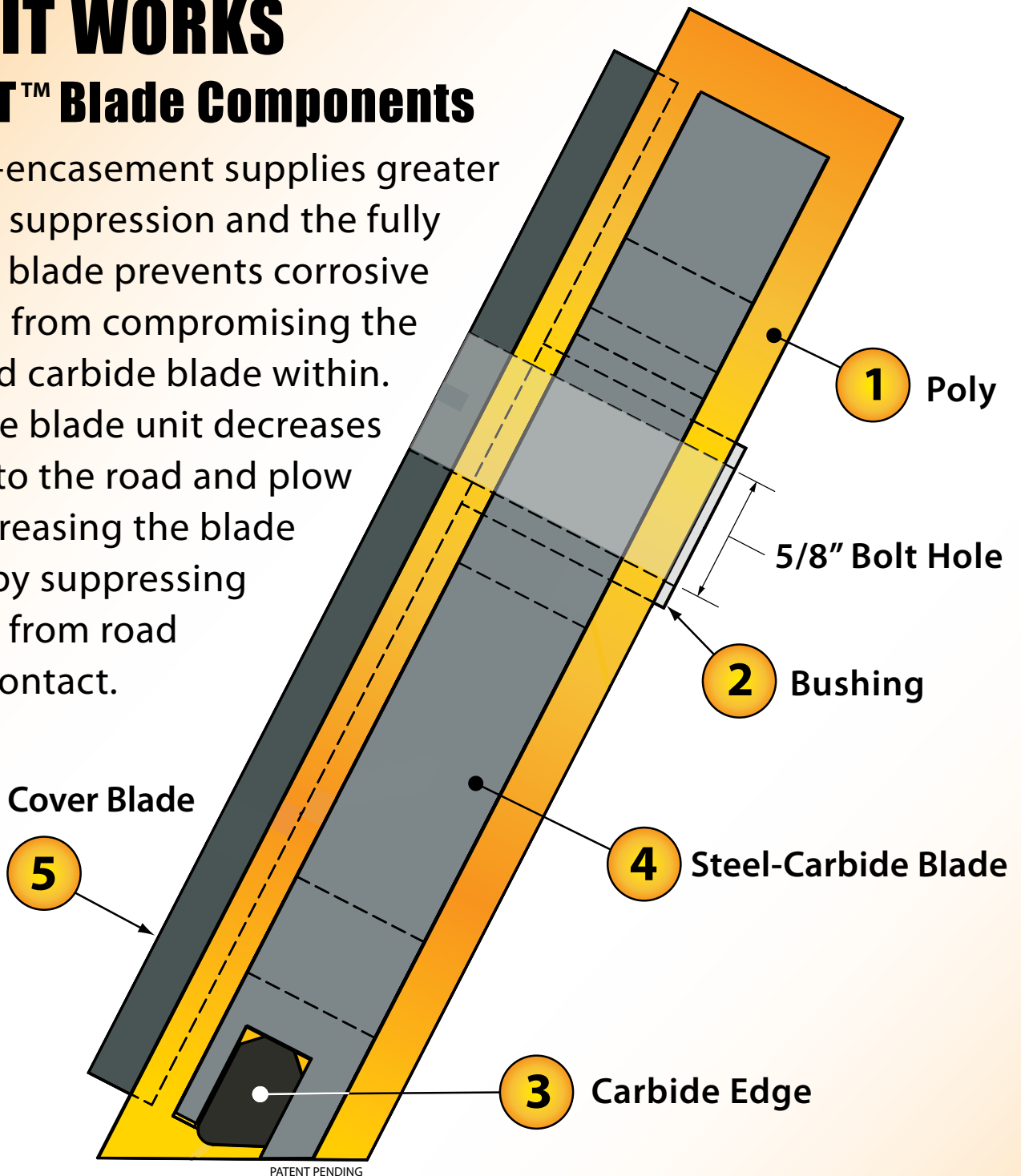
PATENT PENDING

HOW IT WORKS

The VST™ Blade Components

The poly-encasement supplies greater vibration suppression and the fully enclosed blade prevents corrosive materials from compromising the layers and carbide blade within. The single blade unit decreases damage to the road and plow while increasing the blade lifespan by suppressing vibration from road surface contact.

Adhered Cover Blade



Snowplow parts wear out, especially in high use areas. Evolution Edges VST™ Blades provide superior performance and longevity when compared to traditional steel blades. Life expectancy of VST™ is generally 10 to 20 times longer than that of a steel blade.

VST™ Surpasses the Competition

- Greater vibration suppression
- Superior quality
- A fraction of the price
- Additional cushion for improved wear
- Safe and easy installation

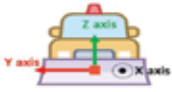


An innovative, cutting edge manufacturer teamed up with a Service-Disabled Veteran-Owned Small Business (SDVOSB) to produce the highest quality 'Made in America' plow products and components.



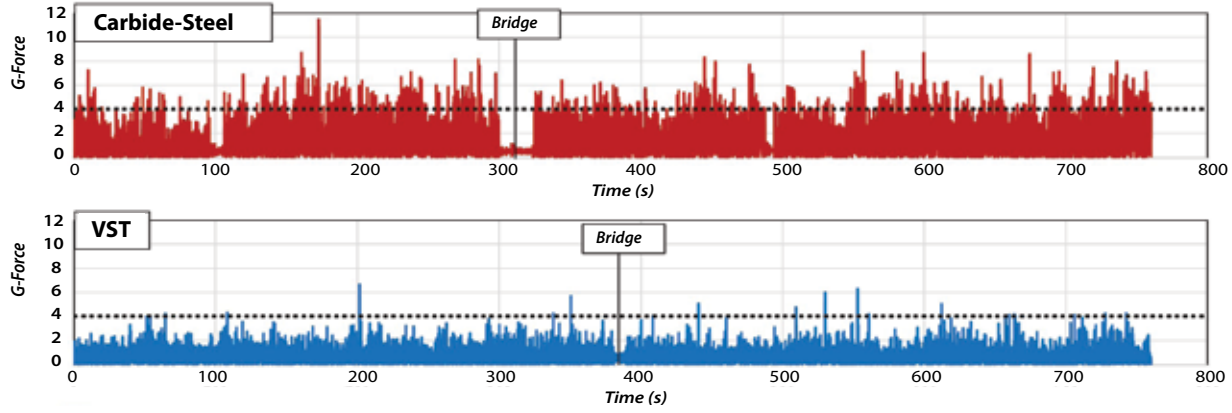
X-Axis = Positive G Forces Forward

X-Axis=Positive G Forces Forward Y-Axis=Positive G Forces Laterally Z-Axis=Positive G Forces Forward



X-Axis

Control of a Total 760 seconds for each experiment



Summary of Results X-Axis

Test Used Controls: - VST™ versus Carbide Steel Blade
 - Same time windows (760 seconds), same road selection*
 * Speed and other factors not precisely controlled for

G Force Events	Carbide-Steel Blade	VST™ Blade	Test Results
Count of Forces Over 4G	569	18	25X Reduction in X
Average G Force	1.47G	0.73G	2X (50%) reduction in X
Max G Force	11.50G	6.64G	2X (50%) reduction in X

1. VST™- Dramatic impact to reduced events over 4G - This metric gets at long term wear
2. VST™- 2X (50%) reduction in average G-Force - This metric gets at long term wear
3. VST™- 2X (50%) reduction on the max G-Force - This gets at catastrophic impacts to plow

X-Axis

Selected window of time and performed random sampling

Test Used Controls: - VST™ versus Carbide Steel Blade
 - Same time windows (before and after bridge for same amounts), same road selection*
 * Speed and other factors not precisely controlled for

1st Time Window	Carbide Steel	VST™	Results
Random selection of Data Points	1.67G	0.75G	2X (50%) Reduction
2nd Time Window	Carbide Steel	VST™	Results
Random selection of Data Points	1.45G	0.68G	2X (50%) Reduction

VST™ had 2X reduction in Average G force in random sampling
 NOTE: This metric also gets long term wear

Snowplow Cutting Edge Vibration Testing prepared by
ip Capital Group Strategy Advisor
 All additional Y-Axis and Z-Axis data is on file with them.

VST™ POLY-CARBIDE BLADE SYSTEM BENEFITS

▶ **Increases Safety**

Having 1 complete blade section eliminates the need to handle many individual parts during assembly / installation.

▶ **Reduces Road Damage**

Damage to roads is significantly reduced do to a 50% reduction in vibration of the cutting edge.

▶ **Reduces Driver Fatigue**

A 50% reduction in vibration helps reduce driver fatigue.

▶ **Increases Productivity**

Lower fatigue + increased blade life = less downtime.

▶ **Lower Cost**

VST™ is 4 components in 1 requiring less time to install and maintain making VST™ a durable and affordable blade system at the most competitive rates in the market.

▶ **Increases Blade Life**

Carbide inserted blades encased in polyurethane provide a shock absorption effect that increases the life of the carbide blade.

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