

CASE STUDY
City of Avon Lake
Ohio

Reviewed and written by Winter Equipment Company



800.294.6837
WinterEquipment.com

PATRIOT® System

Municipality and city-rated steel snowplow blade with 4X or longer blade life.



SAVINGS ANALYSIS 6X Wear Life

\$1,784
Per Truck

\$440 (standard set up) X 6X Wear Life =
\$2,640 - \$856 (Patriot) =
\$1,784 (per truck savings)

\$21,408
Potential Savings
for All 12 Trucks

\$1,784 (per truck savings) X 12
(number of trucks at garage) =
\$21,408 (per garage savings)

NOTE: The City of Avon will equip their remaining 11 trucks with Patriots. Their potential savings per season will be \$46,274.88. Does not include downtime cost. The Winter Equipment Company manufactures wear systems that can last up to a complete season. Each customer's experience will vary depending on wear factor expectations, weather, operator use, and other variables.

OTHER DOT USERS:

Town of Thermopolis—Wyoming, Vilas County—
Wisconsin, Black Hawk County—Iowa,
City of Decorah—Iowa

Challenge

The City of Avon Lake, Ohio sees an average snowfall of 43 inches a year in a 5 month plowing season. City roads are asphalt and concrete and feature many obstacles such as manhole covers, water shutoffs and catch basins. The city demands that its main and residential roads are plowed to the surface at all times. With plow speeds of 35 MPH on its fleet of 12 trucks, the city was experiencing heavy wear on its plows equipped with mild steel blades. A two-person maintenance crew had to perform blade changes every three weeks in a heavy winter. With each blade change taking one hour and the work of two maintenance personnel, maintaining five trucks at a time saw the crews losing valuable time and money.

Test Truck A

The City of Avon Lake purchased its first Patriot in the February of 2013 season and ran three storms. The city subsequently ran the same Patriot for the 2013-2014 and 2014-2015 seasons.

Results-Truck A

At the end of the 2013-2014 season, the City saw **NO WEAR** on the blade or guards. The blade cut through the packed ice and kept its road surfaces clear. The blades performed according to expectations. At the end of the 2014-2015 season, the blades were still in operation with plans to run the system for at least another quarter to half of the next season.

The City of Avon Lake had a direct savings from cutting edges alone of \$4,849.46. Indirect savings includes the cost of the maintenance & operational cost behind changing the cutting edge 11X per season.

"The Patriot went over a full season without getting changed. If we only have to change plow blades at the beginning of the year, we're happy."

Steve Dueru, Head Mechanic, City of Avon Lake

Key Advantages

Carbide-like performance without the cost. "Guard-like" protection from end to end. High-quality AR500 hardened steel. Safe and easy installation. The serrated design allows the blade to cut through packed snow and ice. The plow guard offers curb protection.

You have our guarantee that Patriot System will last 4Xs longer than a standard carbide blade with a steel cover!

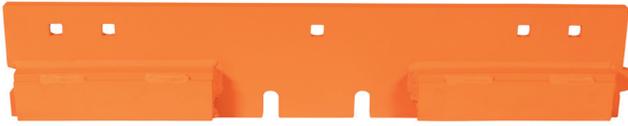


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Profile View



Rear View

FEATURES & BENEFITS

Increased Blade Life

Bullnose HammerHead® carbide inserts and Winter Carbide Matrix®-filled cast steel moldboard shoes.

High Wear Protection

Two PlowGuard MAXX™ of your choice to defend against uneven and premature wear, where you need it most.

Road-Friendly Protection

The wide blade footprint helps to minimize road damage.

Multiple Attack Angles

Bullnose HammerHead Inserts perform on most attack angles.

FREE freight! Arrives in an easy-to-inventory crate.

ONE PART NUMBER INCLUDES:

Three Patriot Blade Sections

Two PlowGuards

Grade 8 Hardware

BEST USED



Roads: Rough roads, asphalt, concrete, city streets
Speed: Low speed
Plow Type: Front plow
Angle of Attack: 65° - 90°



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Our quality impacts and protects what matters most, people! Call us today.

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