

2017 PLOW SYSTEMS



**KAGE**



# WE'RE STILL PLOWING FORWARD

## DRIVING NEW IDEAS TO THE INDUSTRY

Have you ever thought, "There just has to be a better way?!" Applying our Experience Driven Innovation to conquer those ideas is what we do. Every week new ideas are hashed out and the ones that make it earn the KAGE stamp for excellence in design.

As our business has flourished, our mindset has not changed. It is still much like when I started out tinkering in my dad's workshop 12 years ago. Persevering until we find the better way, and designing with the end-user in mind. As we grow and the number of KAGE employees grow our collective vision can be summed up in one sentence; "we want to make it easy for you".

Ours is a timeless industry. Timeless because there has, and always will be, grass to mow and snow to push. The caveat is that Time is of the essence. In this industry the only variable is time, and we all need more of it. Time is expensive, and as labor costs increase we're pushed to work smarter and faster. It's this void where we seek to make the difference.

"Whatever you do, work heartily, as for the Lord and not for men"  
- Colossians 3:23

*Mike Stephan*  
PRESIDENT & FOUNDER



MIKE  
STEPHAN

# THE KAGE ADVANTAGE

## > BUILDING IT BETTER

If the idea isn't revolutionary or innovative as our company name states, we're not taking the idea far enough. KAGE Innovation invents and manufactures equipment for the professional grounds manager. Our core objective is to offer new products as solutions to common industry setbacks. In short, we're always on the lookout for "the better way."

## > WHAT'S IMPORTANT

Our customers and employees. KAGE Innovation is run by people, and we serve people. The company was started because of an opportunity that was seized. KAGE Innovation continues to create opportunities for people — both customers and employees alike.

## > KAGE QUALITY GUARANTEE

When you purchase a KAGE Product, we want you to be confident you're buying the best equipment possible. We back our products with a 15-day trial guarantee. From the date of delivery you have 15 days to try out the product and if you're not satisfied, you can return it — no questions asked. KAGE will reimburse 100% of the purchase & shipping costs.\*

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\* The money back guarantee reimburses 100% of the purchase & shipping costs. However, all return shipping and shipping arrangements are the responsibilities of the original purchaser.

# SNOWFIRE PATENT PROTECTED PLOW SYSTEM



CURB GUARDS prolong the life of your blade and are softer on the curb



## OVERBUILT BY DESIGN

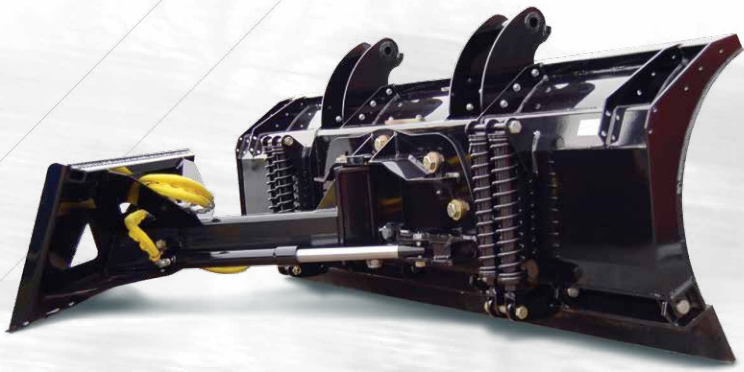


## FROM BOX TO BLADE IN SECONDS!

The SNOW KAGE Box hooks onto a skid steer snow plow to instantly create a revolutionary containment system. This is done in seconds without leaving the cab – no pins, bolts or hinges.

**JAKE BUSHO**  
MINNESOTA

"We now own six KAGE systems. When the guys come in to plow they fight over who gets to use them."



## > THE BLADE

The KAGE Moldboard has a plow structure like no other in its class with an attack angle of 65 degrees. The full length Tri-Formed Box structure gives it the most torque resistance and rigidity — a design that has been used in the highway industry for years. The moldboard sheet itself is built with 10-gauge GRADE 50 steel to extend the life of the plow.

The Blade features a standard 8" safety trip-edge that prevents accidental damage when encountering hidden obstacles by tripping back 68 degrees. Powered by four compression style return springs and pivoting on 6 total 1-inch trip pins, it trips when you need it, and stays put when you don't.

The Blade angles up to 35 degrees in both directions and oscillates side to side allowing it to remain flat on the plow surface.

✓ **SNOWKAGE HOOKS** are simple in design yet amazingly durable. Attaching & detaching the box can take less than 5 seconds for a skilled operator to do.

## > THE BOX

The SNOW KAGE Box has a bullet proof structure that conquers the destructive tendencies of any snow removal operation. Each plow comes with an installed set of self-adjusting, flexible polyurethane skids. They have the ability to slide upwards as the cutting edge of the plow becomes worn, allowing it to cleanly scrape the plowing surface.

At either side of the box are pre-punched 10" wide snow catches to prevent spillage while pushing. Replaceable side panels are standard and bolt on easily. Order the box as a 6 ft solid weldment or the 8 ft to 10 ft adjustable box side feature.

## > THE PAYOFF

**REDUCE PLOW TIME BY 25% to 50%!**

The KAGE Plow System takes the advantages of a snow plow and a pusher box combining them into one fast and seamless operation. Operators can windrow or back drag with the plow normally, then grab the SNOWKAGE Box to push out their piles or windrows. Then they can go back to plowing without leaving the cab reducing operator frustrations and hassles.

Every KAGE Plow System comes with a 2-year structural warranty and a Money Back Guarantee for a trial period of 15 days from delivery.



TO ORDER CALL 651-433-4628, OR GO ONLINE: [KAGEINNOVATION.COM](http://KAGEINNOVATION.COM)



# SNOWSTORM *PLOW SYSTEM*

PATENT PROTECTED



## BUILT TO LAST

### CONSTRUCTED WITH HIGH-GRADE STEEL

The SNOWSTORM Blade is designed specifically to take the abuse from mid-sized wheel loaders, backhoe loaders, tele-handlers and agricultural tractors. The Link, the Blade and SNOWKAGE mate perfectly creating the ultimate snow containment tool. The Hydro-Lock brackets of the blade latch onto the bars of the box. Controls in the cab allow the operator to remain in the cab until the job is done.



#### TWO ATTACHMENT OPTIONS: 3-POINT OR QUICK ATTACH

We offer the 3-point hitch attachment for tractors and Quick Attach Mount for loaders.



^ **HYDRO-LOCK**  
Efficiently attach & detach the box from within the cab

< **2" POLY SKIDS** are beveled at the front to ride up onto the curb with a less blunt impact

# DELIVER THE ONE-TWO PUNCH

WHEN THE JOB CALLS FOR BRUTE FORCE, THE SNOWSTORM ANSWERS

## > THE BOX

Tough, triangulated supports mean that you can push this to the extreme with no breakdowns. On both sides of the box are 2-inch poly skids designed to go easy on curbs. The box width manually adjusts from 10 feet out to 14 feet.

## > THE BLADE

The SNOWSTORM Blade cuts clear down to the plowing surface with the aid of an oscillating mount. The blade also comes with a standard trip-edge which is backed up with 8 compression springs and a Tri-formed box.



## BOLT-ON UNDERCARRIAGE KITS FOR TRACTORS

Everyone knows tractors are versatile, fuel efficient machines. Combined with a SNOWSTORM Series plow system, tractors can be far more useful for your business year round. Each Undercarriage Kit comes with an owners manual to help you mount the unit in short time.

See page 10 for more information.



UNDERCARRIAGE KITS - see p. 10

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# SHADOW BLADE PATENT PROTECTED



## 3-POINT SNOW ATTACK

We're building our reputation on being an innovator for the snow-removal industry. Our latest build is the patented 3-point rear attachment design called the SHADOW BLADE. This new weapon will set your tractor up to be a worthwhile year-round investment.



^  
**SIMPLE JOYSTICK CONTROL**  
eases the operators ability to control both front and rear plow systems.

## LEFT-RIGHT-LEFT >

The dual edge blades allow the operator to switch from one plow side to the other saving time on the job.







# MOVE MOUNTAINS

## WITH THE SHADOW BLADE

^ **UNDER CARRIAGE KITS**  
ready to bolt on to your tractor.  
See page 10 for more details.

**OPTIONAL LASER GUIDANCE** v  
reminds the operator when the Shadow Blade  
is deployed off to either side

The SHADOW BLADE combined with our signature SNOWSTORM System will literally push a ton of snow. The aggressive angle of the moldboard keeps the snow churning forward minimizing drag on the tractor. Clean large lots and parking areas in less time than it takes a crew running 3 trucks!



**HYDRAULIC VALVE CIRCUIT** >  
is located at the rear of the  
tractor up high for easy  
access and stays clear  
of compacted snow.



### < TRAVEL POSITION

While traveling between job sites, the Shadow Blade travels neatly and securely behind the tractor.

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# TRACTOR MOUNT *BOLT-ON UNDERCARRIAGES*

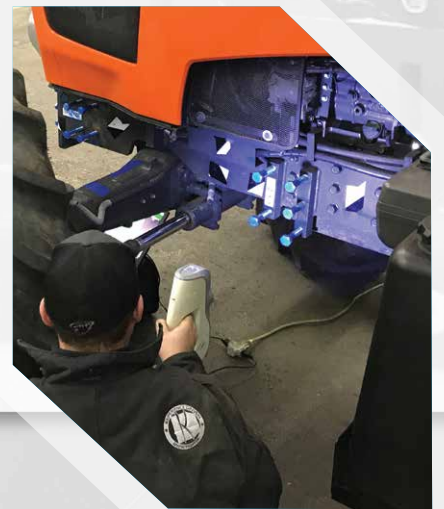


## KAGE TOUGH

### BOLT-ON UNDERCARRIAGE MOUNTS FOR TRACTORS

Modern tractors are evolving into high-speed, easy-to-drive powerful tools that are readily adapted to any snow removal operation. Tractors are good at pushing and pulling, putting the traction right where it needs to go. Now mount a KAGE Plow System to that tractor and it becomes a snow moving giant! We digitally scan every tractor model to produce an absolute bolt-on, ready-to-go undercarriage mount.

**DIGITAL PRECISION** >  
is required for proper fit  
of each tractor mount.



**CHRISTOPHER  
BASIL** DAVID

"KAGE products can definitely handle all of the abuse they get from inexperienced operators and rougher surfaces. You definitely get what you pay for here!"



## IMPROVED VISIBILITY

With the low profile attachment of the undercarriage and KAGE Plow System, the tractor and plow are more maneuverable and visibility is vastly improved over the use of loader arms.



## BUILT TO TAKE THE ABUSE

KAGE Innovation designs & builds products to a standard that allows you to be more efficient. With greater snow control, simple design and commercial-grade durability, KAGE is becoming the leader in commercial snow removal.

Like all of our products, our undercarriage tractor mounts were put through a gamut of rigorous tests to ensure our customers are getting the best-built product possible.

GREATER DOWN PRESSURE is exerted with its lower center of gravity.



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# KAGE KLAWZ *SKID STEER TRACTION*



## LESS SPIN, MORE DRIVE

### RADIAL vs BIAS TECHNOLOGY

There are many reasons why the commercial markets are moving toward radial tire technology, but the primary reasons are longer tread life, ultimate operator comfort and maximum grip.

MICHELIN XM+S4<sup>®</sup> Pre-mold Retread Tires are the best performing snow tire tread on the market. They come with a Tread-life Warranty\* serviceable at any Michelin Retread dealer near you which will minimize down time — and with retreads, you may never need to buy a set of replacement tires again.

\* Michelin Pre-mold Retread Tires are warranted for the life of the tire, or down to 2/32 which is the legal limit. Search on-line for a certified Michelin retread tire dealer near you.



**DENNIS SCHULZ**  
KULJAWA ENTERPRISES

"Kage is the only unit we know of that can angle while it is pushing. You can move snow in an exact and precise way not possible with a fixed pusher."

# HORSEPOWER'S NOT THE ISSUE

We've done the side by side tests and there's no comparison in performance between conventional skid steer tires and the KAGE KLAWZ. Even in a downward sloped drive, the results were obvious - the traction of the KAGE KLAWZ proved to be the game changer for skid steer snow removal. You have all the power you need, now you just to put it to better use.



## USING A KAGE > PLOW SYSTEM

with the KAGE KLAWZ will allow you to use the full power of your skid steer

- ✓ MICHELIN'S XM+S4 PRE-MOLD RETREADS allow the machine to transfer more power to the ground and absorbs more shock from uneven surfaces compared to a bias tire

## ^ ULTIMATE RIDE COMFORT

When you're sitting in the cab for multiple hours/days plowing snow, comfort becomes a big deal. Experience the difference of the KAGE KLAWZ radial retread tires & wheel combo



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# POLY ROTOR BLADES

## KICK MORE SNOW ... LONGER

Single-stage snow blowers are a crucial part of your snow removal business and it's hard enough to keep them maintained without the frequent paddle and scraper bar replacement due to normal wear. Compared to rubber paddles, Poly Rotor Blades last almost 4 times longer, produce a cleaner wear edge and sell for the same price.

- ✓ **KEEPS ITS EDGE** as it wears, cutting down to the pavement and cleaning more efficiently



LASTS 4 TIMES LONGER

Our paddles last almost 4 times longer than regular rubber models



# SNOW STAKE SYSTEM

## STAY ON TRACK ALL SEASON

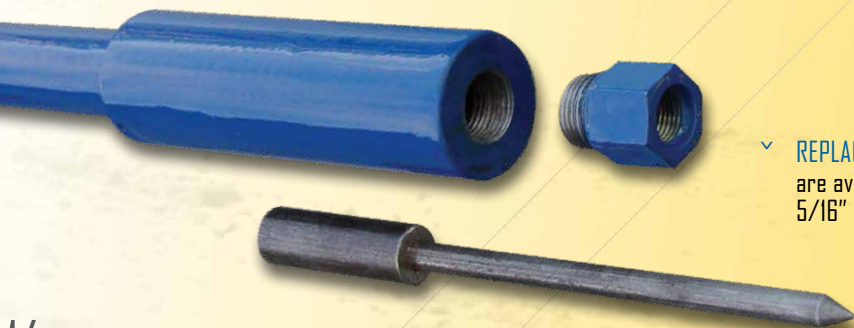
KAGE developed this Pounder & Quiver Kit to address the shortcomings of conventional snow stakes. The KAGE Pounder punches a perfect hole for the marker stake. The 3 lb. slide hammer can punch through the toughest soils and even road base gravel.

The Quiver features high-quality nylon material and carries 120 stakes up to 32" long. Strap the quiver to your leg and waist using the two 2" wide straps and industrial strength buckles.

Our Snow Plow Stakes are made of a durable polymer blend which readily rebounds after impact, even in sub-zero temperatures. Available in 26", 32" and 36" lengths.



- ✓ **REPLACEABLE TIPS** are available in 1/4", 5/16" and 3/8" sizes



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# KAGE

**EXPERIENCE DRIVEN  
INNOVATION**

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### PATENT INFORMATION

SNOWFIRE & SNOWSTORM - Patent #7,654,016; #7,788,829; #7,941,947; #2,707,963; #2,574,587  
SHADOW BLADE - Patent # 8,776,406