

**BEVEL BUDDY™**



**MORBARK®**



TAKING **CHIPPER KNIFE PRODUCTIVITY** TO  
***The Next Level***



## Frequently Asked Questions

### **Q. Which side of the knife should I sharpen with the Bevel Buddy?**

**A.** You always sharpen the back side of the knife (the side of the knife that the chips discharge from). NEVER try to sharpen the face or feed side of the knife, for this would create a negative feed angle.

### **Q. Will my knives have to ground more when they are taken to the stationary grinder to be resharpened?**

**A.** No, not if the Bevel Buddy sharpener is used correctly. Shut down the machine and back-grind the knives before they get too dull. Only perform the three recommended sharpenings. Operator must not be overly aggressive with the Bevel Buddy; pushing too hard will create an excessive back grind.

### **Q. How many times can I sharpen the knives in my chipper with the Bevel Buddy?**

**A.** It is suggested by the manufacturer to only back-grind the knives three times in the chipper.

### **Q. How many loads of chips can I expect to get out of a sharpening with the Bevel Buddy?**

**A.** There are many variables involved. Is material freshly harvested, old dead wood, frozen, debarked, or does it contain dirt and sand? The general rule is if you are an arborist with a small chipper and change your knives once a week, one sharpening with the Bevel Buddy should give you the same one-week run time. This usually applies to each grind placed on your knives, up to three total times in your machine.

If you are a production chipping operation – in a harsh environment with frozen, dirty, old wood conditions – you may only get three or four loads on a set of knives. Using the Bevel Buddy, you should get three or four loads per sharpening.

In a good environment of freshly harvested clean material, you may get 12-15 loads of chips on a new set of knives. You should get the same 12-15 loads per sharpening with the Bevel Buddy. Customers using the Bevel Buddy have documented exceeding 50 loads of chips on a single set of knives with the recommended three sharpenings.

### **Q. How long does the abrasive last?**

**A.** The average is approximately 8,000 linear inches of sharpening per single-ended abrasive with the three to four indexes that are available on the sharpeners. For example, if you have three knives that are 24" long, that equals 72 linear inches ( $3 \times 24 = 72$ ). You would be able to sharpen these knives more than 100 times. It has been documented through customer testing that they have exceeded 15,000 linear inches of sharpening with the new X-L Extended Life abrasive, indexing three to four times on each side. This is providing that the operator maintains the knives properly, not running the machine with knives that are burnt, severely chipped, or basically beyond resharpening. It is recommended the operator shut down the machine and back-grind the knives with the Bevel Buddy at the first sign of dullness. This will ensure extended life and longer run times.

### **Q. Will there be a change in my fuel consumption using the Bevel Buddy?**

**A.** Yes. It has been noted by our customers that they can see a two to three percent decrease in fuel consumption with up to three sharpenings. However, customers have reported increased fuel consumption if their operators exceed the recommended three sharpenings, because an excessive back-grind will have the tendency to pull too much wood into the chipper, slowing the disc or drum, and possibly plugging the discharge system.

### **Q. Will my knives be overheated and lose hardness from using the Bevel Buddy?**

**A.** No. We have conducted countless experiments to ensure the use of the Bevel Buddy will not affect the inherent physical properties of your knives. To see an example of this testing, go to [www.morbark.com/parts/bevel-buddy](http://www.morbark.com/parts/bevel-buddy).



# Need a “Buddy” to Help Reduce Knife Costs?

Since 1988, Precision Sharpening Devices, Inc., the manufacturer of the Bevel Buddy, has been creating and refining counter-grinding/back-beveling tools for the pulp and paper, sawmill, plywood and whole tree chipping markets. The counter-grinding/back-beveling process is very simple. The knife is re-sharpened two to three times while remaining in the machine. The counter-ground/back-beveled edge provides a more productive chipping edge, resulting in more uniform chips and equipment fuel efficiency. A fresh bevel can be made on the back side of disc- or drum-chipper knives three times before removing the knives for regular sharpening.

## Using the Bevel Buddy as a supplement to regular knife sharpening can result in:

- Reducing knife changes and resharpening costs
- Less downtime = more production time = **BIGGER PROFITS**
- Extending life for chipper parts such as bolts, knife holders and clamps



**Bevel Buddy MAXX 12-Volt  
Lithium Battery Powered  
Part #29796-009**



Kit includes a 12-volt drive motor with universal grinding head and two drum abrasives, 2 batteries, charger, one power inverter for charger, safety glasses and storage case.

This sharpener is used for disc and drum chippers from large portable machines to the largest pulp mill/wood yard machines.

**Bevel Buddy MAX 12-Volt  
20' Cord  
Part #29796-006**



Kit includes a 12-volt drive motor with a 20' cord, a universal grinding head, two drum abrasives, safety glasses and a storage case.

This sharpener is extremely versatile. It was designed for use on smaller disc and drum chippers with confined knife access areas, but is equally effective for whole tree chippers.

**Bevel Buddy MAX 120-Volt  
Part #29796-002**



Kit includes a 120-volt drive motor with universal grinding head, two drum abrasives, safety glasses and storage case.

This sharpener is used by those who prefer an electric model for disc and drum chippers from the largest pulp mill/wood yard and sawmill machines.

**Bevel Buddy MAX-E 12-Volt  
Economy Kit with 10' or 20' Cord  
Part #29796-008**



Kit includes a 12-volt drive motor with universal grinding head and one drum abrasives, safety glasses and storage case.

This is a leaner version of the MAX 12-Volt, designed with the small business owner in mind, for use on smaller disc or drum brush chippers with confined knife access areas.

**Drum Abrasive  
Part #29796-025**



Drum Abrasive replacement for use with pocket-mounted, face-mounted and drum-style chipper knife configurations.

**1/2" Duplex Drum Abrasive –  
XL Series  
Part #29796-026**



Duplex Drum Abrasive offers twice the life of standard abrasives. For use with plywood lathe, pole peeler, and modified disc chipper knife configurations. Also offered in 3/8" diameter for MicroChipper applications (Part #29796-028).

**Bevel Buddy is available at all Authorized Morbark  
Dealer locations. To find a dealer in your area go to  
[www.morbark.com/find-a-dealer](http://www.morbark.com/find-a-dealer)**

# Recommended Bevel Buddy Kit by Manufacturer and Equipment Type

## Morbark®

Equipment Type	Bevel Buddy Kit in Order of Recommendation
Whole Tree Disc Chipper/Chiparvestor®/combination flail-Chiparvestor & Whole Tree Drum Chipper: all current and older models	12-Volt Cordless (Part #29796-009), 12-Volt Battery 20' Cord (Part #29796-006), 120-Volt (Part #29796-002), 12-Volt Economy 10' or 20' Cord (Part #29796-008)
Beever™ Brush Chipper: all current and older models	12-Volt Cordless (Part #29796-009), 12-Volt Economy 10' or 20' Cord (Part #29796-008), 12-Volt Battery 20' Cord (Part #29796-006)
Chip Pac	120-Volt (Part #29796-002), 12-Volt Battery 20' Cord (Part #29796-006), 12-Volt Economy 10' or 20' Cord (Part #29796-008), 12-Volt Cordless (Part #29796-009)
PS8 (contact Morbark for information on other debarkers)	120-Volt (Part #29796-001)

## Bandit

Equipment Type	Bevel Buddy Kit in Order of Recommendation
Whole Tree Disc & Drum Chippers	12-Volt Cordless (Part #29796-009), 12-Volt Battery 20' Cord (Part #29796-006), 120 Volt (Part #29796-002)
Whole Tree Disc Chipper: Models 200, 250, 250XL, and 254	Use only 12-Volt Economy with 10' Cord (Part #29796-008)
Whole Tree Drum Chipper: Models 1090XP, 1490, and 150	120-Volt 10' Cord (Part #29796-004), 12-Volt Cordless (Part #29796-009)
3680 Beast with Knife Conversion	12-Volt Battery 20' Cord (Part #29796-005), 120-Volt (Part #29796-001) with Cone Abrasive

## Vermeer®

Equipment Type	Bevel Buddy Kit in Order of Recommendation
Disc Chipper: Models 1230, 1250, and 1250A	12-Volt 10' Cord (Part #29796-004), Economy with 10' Cord (Part #269796-007)
Drum Chipper: Models BC100XL, 1500, 1800, and 2300	Economy 10' or 20' Cord (Part #29796-007), 12-Volt Cordless (Part #29796-009), 120-Volt Battery (Part #29796-006)
HG6000 with Knives	120-Volt Cordless (Part #29796-009), 12-Volt Battery 20' Cord (Part #29796-006)

## Peterson

Equipment Type	Bevel Buddy Kit in Order of Recommendation
Disc Chipper: Models 4900 and 5000	12-Volt Cordless (Part #29796-009), 12-Volt with 20' Cord (Part #269796-006)
Drum Chipper: Models 4300 and 4310	12-Volt Cordless (Part #29796-009), 12-Volt with 20' Cord (Part #269796-006)

Bevel Buddy works great on other chippers manufactured by Woodsman, Treelan, Dynamic, Salsco, Farmi, CBI, Mitts & Merrill, Wayne, Wood Chuck, Carlton, Europe Recycling, Precision, Fulghum, Carthage, Andritz, Progress, and Murray. To find the kit recommended for your chipper, call your local authorized Morbark dealer. To find a dealer in your area, go to [www.morbark.com/find-a-dealer](http://www.morbark.com/find-a-dealer).



# MORBARK WORLDWIDE DEALER NETWORK



**Buying your parts and equipment through an official Morbark Dealer gives you all of the advantages of working with the factory combined with the advantages of having a local representative.**

## **Morbark Expertise**

Morbark partners with only the highest-quality companies to offer you genuine Morbark equipment, parts and service, and factory training ensures that they can help you get the maximum benefits from your Morbark machine.

## **Local Relationships**

Having a Morbark dealer in your area means less downtime when you need parts or service, live demonstrations in real-life conditions, and a thorough

understanding of your local market. With connections in your area, your Morbark dealer can be a valuable partner in growing your business.

## **Same Great Customer Service**

Morbark Dealers are not middlemen – they are your personal Morbark representatives – so you'll always get the best equipment at the best price, plus the same level of customer service you get dealing with the factory.

**We support our customers with a world-class network of authorized dealers and fully stocked parts depots around the world. To find a dealer in your area of the world, go to [www.morbark.com/find-a-dealer](http://www.morbark.com/find-a-dealer).**