

# TigerStop®

fast and accurate...every time



## METAL PROCESSING EQUIPMENT



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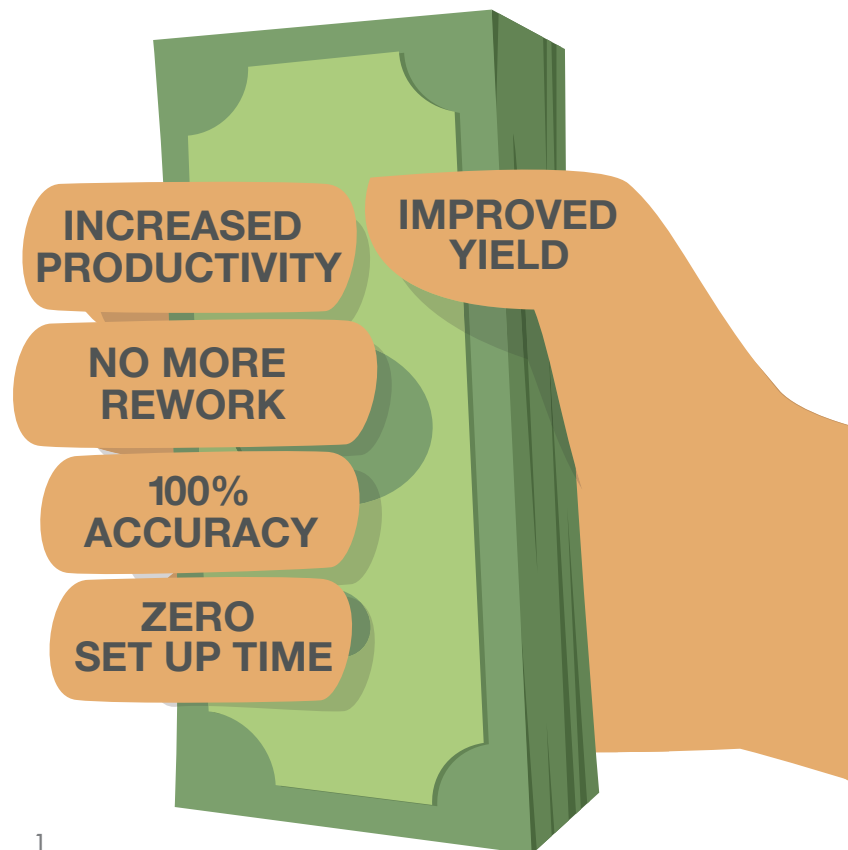
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# Automate Your Shop with TigerStop

TigerStop is the global leader in stop gauge and positioning automation for rapid and precise positioning of almost any material including metal, wood, and plastic. For over 20 years TigerStop has been fulfilling its mission to “empower local manufacturers be globally competitive.”

TigerStop add-on automation seamlessly integrates with existing tools to efficiently cut, drill, bore, punch, push, or rip material. It reduces scrap waste and optimizes yield for a quick return on investment. TigerStop’s fully automated saw systems provide turn-key material processing solutions. **Fast and accurate...every time®.**

TigerStop’s Five Finger Discount is a simple and easy way to remember the top 5 benefits of owning and operating a TigerStop length stop. When you consider all of the benefits and how they positively affect your bottom line, you’ll quickly realize how much of a *steal* it is to own a TigerStop.





## Zero Set Up Time

Using a TigerStop means no more setting a stop block, manual fence, or clamp. It also means no more pulling out a tape measure, marking parts, and double-checking finished parts for accuracy. Set up time is completely eliminated.



## 100% Accuracy

The part you process today will be the same size as the part you process tomorrow, or a week from now. Repeatable accuracy you can trust is the first step in ensuring proper quality controls throughout your entire manufacturing process.



## No More Rework

Accurately cut parts means no more labor hours spent fixing mistakes or scrapping usable material. Rework is completely eliminated and so are the production bottlenecks associated with it.



## Increased Productivity

As a result of zero set up time, 100% accuracy, and eliminated rework, operators can remain at the machine, or in the “money making zone,” cycling it 200 or 300 more times per shift, producing more parts, and getting more finished product out the door.



## Improved Yield

Raw material costs, for the majority of manufacturers, typically exceed 50% of all costs on Profit and Loss statements. Improving material yields is the fastest way to helping your bottom line. TigerStop’s accuracy, coupled with its Dynamic Optimization™ software, improves yields up to 30% or more.

# SAWGEAR

Portable automated length measuring system



Integrate a SawGear automated stop to the punching and/or shearing stations of your ironworker for highly accurate part lengths.



SawGear's portable infeed and outfeed tables are perfect for any jobsite environment or transporting your SawGear from one industrial environment to the next.



SawGear DoubleMiter Pro™ provides an easy way to integrate your SawGear tables with your double miter saw.

## Simple Add-on Automation

SawGear® is an intuitive automated stop that easily attaches to your saw, drill, or punch. Its simple-to-use so every operator can be your best operator. No more using a tape measure or setting manual stops means you can produce more parts with increased accuracy.

## Nesting Angled Parts

SawGear's Crown+MiterPro™ software calculates angle compensations for you, making miter cutting a math free process.



## No More Rework

With SawGear® you can forget inaccurate parts and rework. The part you process today will be the same size as the part you process tomorrow, or a week from now.

## SPECS

- Power Requirement: 110 VAC @ 10 Amps, Isolated Circuit
- Repeatability Accuracy: .008 in (.2 mm)
- Motor Type: DC servo w/optical encoder
- Drive Type: 32 mm steel reinforced belt
- Working Lengths: 8, 12 & 16 ft (2.4, 3.6 & 4.8 m) Custom lengths are available

## Ahead of Schedule

Not only do you get a better quality job, your guys get more done in the same hours...every day.

### Remote Keypad



Mount SawGear controls anywhere that is convenient for your operator. SawGear's Remote Keypad is great for double miter saw applications.



### Station Set Up Made Easy

Setting up your machine to run accurate parts is one of the most time consuming activities in your shop. SawGear takes stop setup time down to 0 and keeps your operator making parts and making you money.

\*Part tolerance may vary based on system.

- Pushing Capacity:  
Stop Only
- Warranty:  
1 Year

ACCURACY\*:

+/- .008 in  
.2 mm

SPEED:

125 ft/min  
38 m/min

MAX LENGTH:

16 ft  
4.8 m

# TIGERSTOP

Automated material positioner and pusher for industrial machinery

## Push It, Pull It, and Position It

TigerStop<sup>®</sup> is an automated material pusher and stop that will turn your existing machine, whether a saw, drill, punch, or shear, into a lean manufacturing asset. Take your operations to a whole new level with the product that started it all.

Measuring and setting manual stops takes time, requires a great deal of skill, and even with the best operator you will still get miscut parts requiring costly rework.

Adding a TigerStop means increasing speed, accuracy, and yield, while reducing rework and scrap.



## Keeps Operators in the Zone

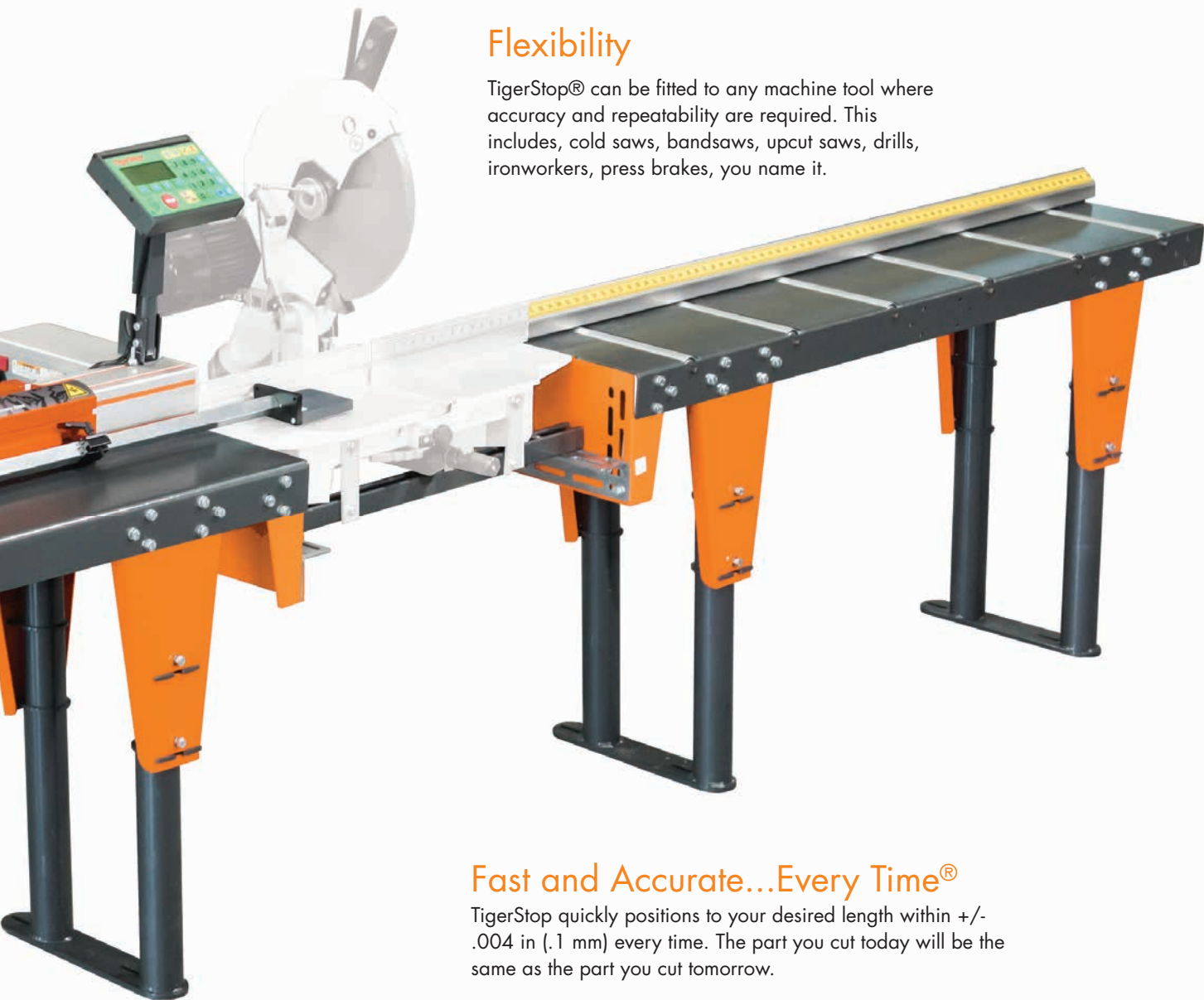
When operators are busy setting and resetting manual stops, they aren't cutting and making you money. TigerStop keeps the operator at the saw and in the money making zone.

## Eliminate Rework

With TigerStop you can say "Goodbye" to rework. Parts are cut accurately the first time around so you won't waste time fixing errors. TigerStop enables your newest operator to perform like a seasoned sawyer.

## SPECS

- Power Requirement:
  - 110 VAC @ 15 Amps, Isolated Circuit
  - 208 VAC @ 20 Amps, Isolated Circuit
  - 240 VAC @ 20 Amps, Isolated Circuit
- Motor Type:
  - DC servo w/ optical encoder
- Repeatable Accuracy:
  - .004 in (.1 mm)
- Pushing Capacity:
  - 120 lbs (54 kg) w/ rollers
  - 90 lbs (40 kg) w/o rollers
- Drive Type:
  - 32 mm steel reinforced belt



## Flexibility

TigerStop® can be fitted to any machine tool where accuracy and repeatability are required. This includes, cold saws, bandsaws, upcut saws, drills, ironworkers, press brakes, you name it.

## Fast and Accurate...Every Time®

TigerStop quickly positions to your desired length within +/- .004 in (.1 mm) every time. The part you cut today will be the same as the part you cut tomorrow.

## Fast Payback and Exceptional ROI

Most users find that their TigerStop pays for itself in a matter of months.

\*Part tolerance may vary based on system.

- Working Lengths:  
4-30 ft (1.2 - 9.1 m)
- Warranty:  
1 Year

ACCURACY\*:  
+/- **.004** in  
.1 mm

CAPACITY:  
UP  
TO **120** lbs  
54 kg

MAX LENGTH:  
**30** ft  
9 m

# TIGERRACK

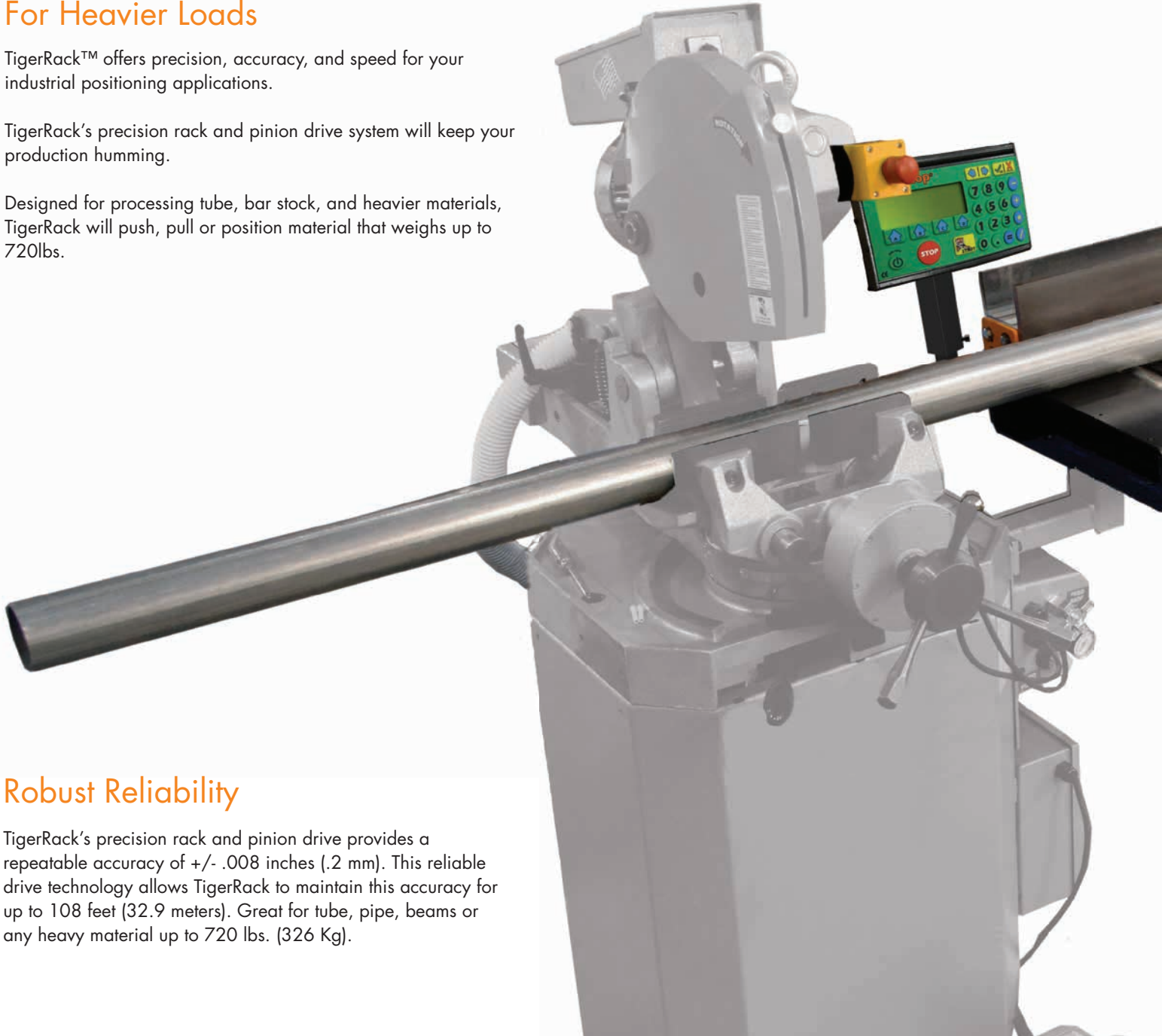
Automated pusher fence for positioning material up to 720 lbs (326 Kg)

## Accuracy and Precision For Heavier Loads

TigerRack™ offers precision, accuracy, and speed for your industrial positioning applications.

TigerRack's precision rack and pinion drive system will keep your production humming.

Designed for processing tube, bar stock, and heavier materials, TigerRack will push, pull or position material that weighs up to 720lbs.



## Robust Reliability

TigerRack's precision rack and pinion drive provides a repeatable accuracy of +/- .008 inches (.2 mm). This reliable drive technology allows TigerRack to maintain this accuracy for up to 108 feet (32.9 meters). Great for tube, pipe, beams or any heavy material up to 720 lbs. (326 Kg).

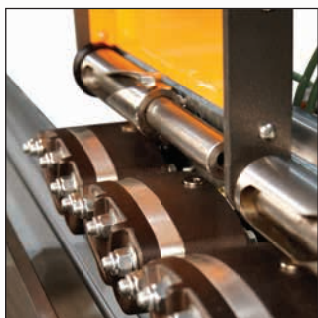
### SPECS

- Power Requirement:  
208 VAC @ 20 Amps, Isolated Circuit  
240 VAC @ 20 Amps, Isolated Circuit
- Repeatability Accuracy:  
.008 in (.2 mm)
- Motor Type:  
AC servo w/optical encoder
- Drive Type:  
Rack & Pinion
- Working Lengths:  
8 - 108 Feet (2.4 - 32.9 Meters)
- Warranty:  
1 Year





## Options



Brakes



Pneumatic Tube Gripper



Pneumatic Flip Away

\*Part tolerance may vary based on system.

- Pushing Capacity:  
720 lbs (326 kg) w/ rollers  
300 lbs (136 kg) w/o rollers

ACCURACY\*:  
+/- **.008** in  
.2 mm

CAPACITY:  
UP TO **720** lbs  
326 kg

MAX LENGTH:  
**108** ft  
32.9 m

# TIGERTURBO

High speed automated feeder for positioning material up to 840 lbs (381 Kg)

## High Speed and Heavy Loads

If you need speed, TigerTurbo can operate at up to 180 feet per minute with its steel reinforced belt. If pushing capacity is your game, TigerTurbo can push 350 lbs (158 Kg) without rollers or 840 lbs (381 Kg) with roller tables.

When no other machine can push it, pull it, or position it, TigerTurbo get's the job done.

## Increased Productivity

A byproduct of fast set up time and accuracy is increased productivity. And because TigerTurbo is easy to use, every operator can cut like your best operator.

## SPECS

- Power Requirement:  
208 VAC @ 20 Amps, Isolated Circuit  
240 VAC @ 20 Amps, Isolated Circuit
- Repeatability Accuracy:  
.008 in (.2 mm)
- Motor Type:  
AC servo w/optical encoder
- Drive Type:  
75 mm Steel Reinforced Belt
- Working Lengths:  
12 - 42 Feet (3.6 - 12.8 Meters)
- Warranty:  
1 Year

## High Speed Accuracy

Setting and resetting manual stops is slow and inaccurate. For those who need the first part to be the same as the thousandth part, in comes TigerTurbo. Fast and accurate...every time.®



## As Much Machine as you Want

Like most TigerStop products, TigerTurbo comes with a lot of optional upgrades including label printing and Dynamic Optimization nesting software for increasing yield. You can even add TigerTouch tablet software for a new level of visibility and productivity. Start with a TigerTurbo positioner now and add on upgrades as your business grows.

\*Part tolerance may vary based on system.

- Pushing Capacity:  
720 lbs (326 kg) w/ rollers  
300 lbs (136 kg) w/o rollers

ACCURACY\*:  
+/- **.008** in  
.2 mm

CAPACITY:  
UP TO **840** lbs  
381 kg

MAX LENGTH:  
**42** ft  
128 m

# HEAVY DUTY 2

Heavy duty automated feed system for positioning material up to 2,100 lbs (952 Kg)

## This is the Big Boy

Heavy Duty 2™, big brother to the TigerStop and TigerTurbo, offers a higher maximum load capacity versus other TigerStop products at 2,100 lbs (952 kg).

Built for your heaviest loads, this rugged yet powerful system can push, pull and position with repeatable accuracy shift after shift.

## Greater Throughput

Having an automated positioner makes material handling quick and easy. HeavyDuty 2 is equipped with a powerful AC Servo Drive motor that provides speed when pushing light material and provides superior pushing force when pushing heavy material. It can also process single pieces of material or bundles for greater throughput.

## Material Handling Made Easy

HeavyDuty 2 uses a rack and pinion drive to position your heaviest materials within +/- .008 in (.2 mm). When used with steel roller tables, material handling is simplified and throughput is increased.



## SPECS

- Power Requirement:  
208 VAC @ 20 Amps, Isolated Circuit  
240 VAC @ 20 Amps, Isolated Circuit
- Repeatability Accuracy:  
.008 in (.2 mm)
- Motor Type:  
AC servo w/optical encoder
- Drive Type:  
Rack & Pinion
- Working Lengths:  
12 - 108 ft (3.6 - 32.9 m)
- Warranty:  
1 Year



## Material Processing Flexibility

Are you processing angle iron on a cold saw? How about pushing tube stock through a drilling station? Maybe you're using clamps to pull stock through an upcut saw? HeavyDuty2 can do it all. The only limit is your imagination.

\*Part tolerance may vary based on system.

- Pushing Capacity:  
2100 lbs (952 kg) w/ rollers  
490 lbs (222 kg) w/o rollers

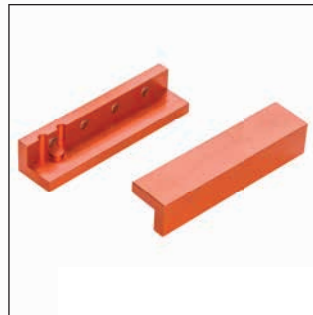
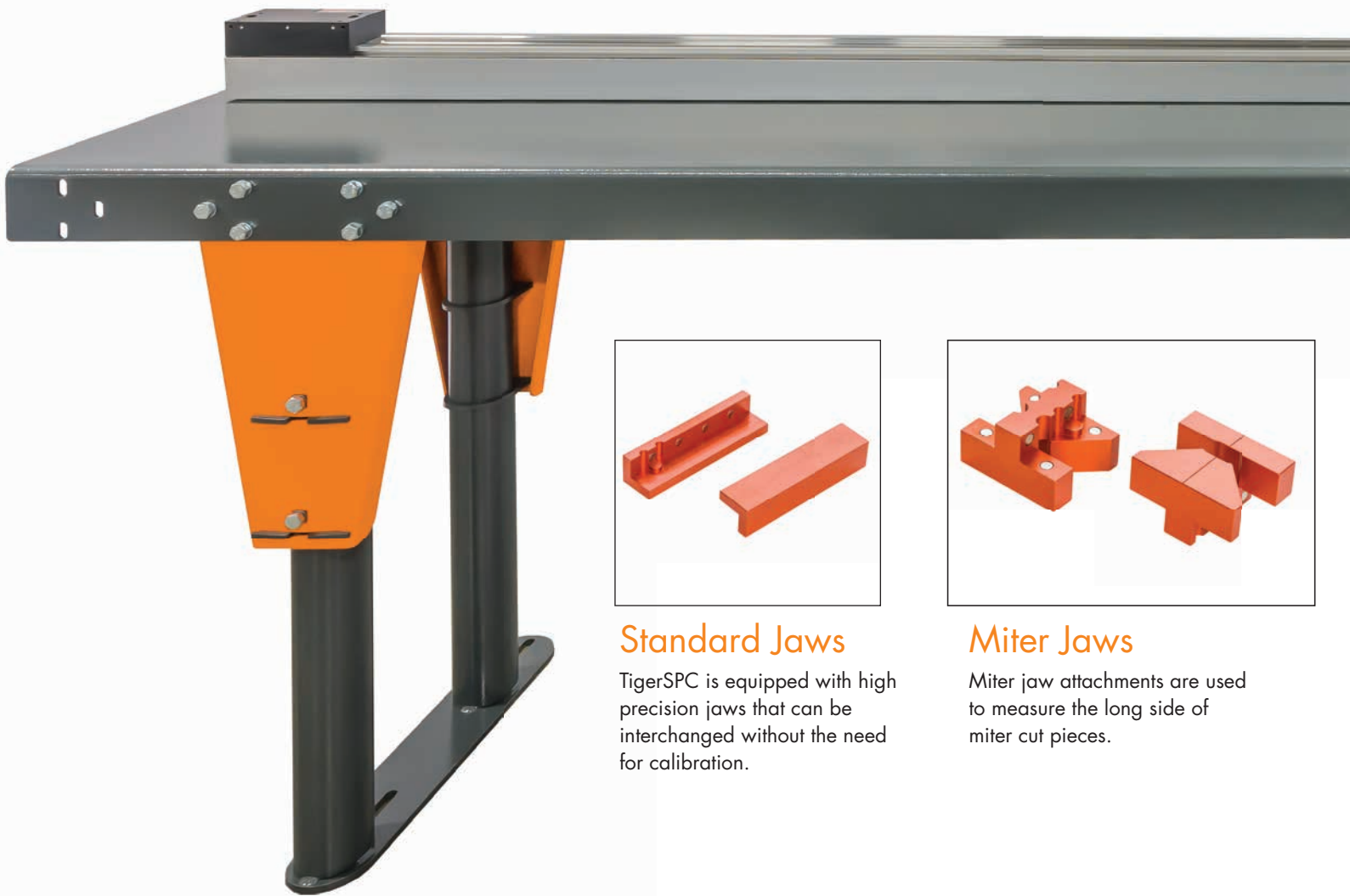
ACCURACY\*:  
+/- **.008** in  
.2 mm

CAPACITY:  
UP TO **2100** lbs  
952 kg

MAX LENGTH:  
**108** ft  
32.9 m

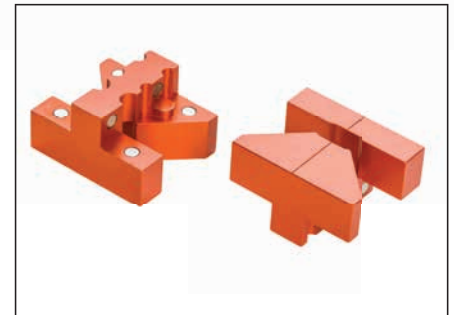
## Easily Measure Material Up to 16 Feet

TigerSPC is a caliper set designed to easily make critical quality control measurements. Once attached to the TigerStop table system, the calipers can measure material up to 16 feet long within +/- .006 in (.15mm). TigerSPC can be equipped with a selection of both standard and custom attachments allowing it to be specifically configured for your set of critical quality control measurements.



### Standard Jaws

TigerSPC is equipped with high precision jaws that can be interchanged without the need for calibration.



### Miter Jaws

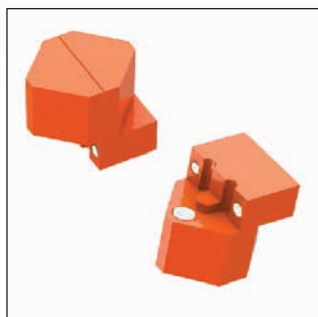
Miter jaw attachments are used to measure the long side of miter cut pieces.

## SPECS

- Power Requirement: 2AA Batteries
- Repeatability Accuracy: .008 in (.2 mm)
- Working Lengths: 0 - 16 Feet (0 - 4.8 Meters)
- Warranty: 1 Year
- Construction: Anodized aluminum 6061-T6

## Snap In Jaws

TigerSPC's easy-to-use snap in jaws allow the operator to change from holes, to miters, to overall measurements, in seconds without losing calibration. All TigerSPC jaws and appliances are machined to ensure the same zero point, so there is no need to recalibrate for different setups.



### Mullion/Muntin Half Lap Jaws

Use the mullion half lap jaw attachment to measure the center-to-center distance between two half lap joints.



### Swivel Block Attachment

The swivel block attachment combines the ability to measure from hole-center to hole-center. It also swivels and allows you to attach other jaw accessories without losing your reference point.

\*Part tolerance may vary based on system.

- Measurement:  
Inches & Fractions  
Inches Decimal  
Metric

ACCURACY\*:

+/- .008 in  
.2 mm

ENCODER:

MAGNETIC  
LINEAR

MAX LENGTH:

16 ft  
4.8 m

# TIGERSAW 2000

Defect optimizing push feed saw station for non-ferrous metal

## High Volume Material Processing

TigerSaw 2000™ is the perfect fully automated saw station for cutting all types of non-ferrous metals fast and accurately every time.

TigerSaw 2000 comes loaded with options like an adjustable cutting envelope, pneumatic clamping, and an innovative spray mist coolant that follows the saw blade for improved cut quality. Its Dynamic Optimization software calculates the best material yield with the least scrap waste possible. TigerSaw 2000 can be configured to push single pieces of material, in addition to bundles, for increased throughput.

## Software to Increase Productivity

A high volume machine needs high volume software solutions. TigerSaw 2000 connects to almost any design software to quickly load your parts list, process material, and print custom part information directly onto finished pieces for easy identification.



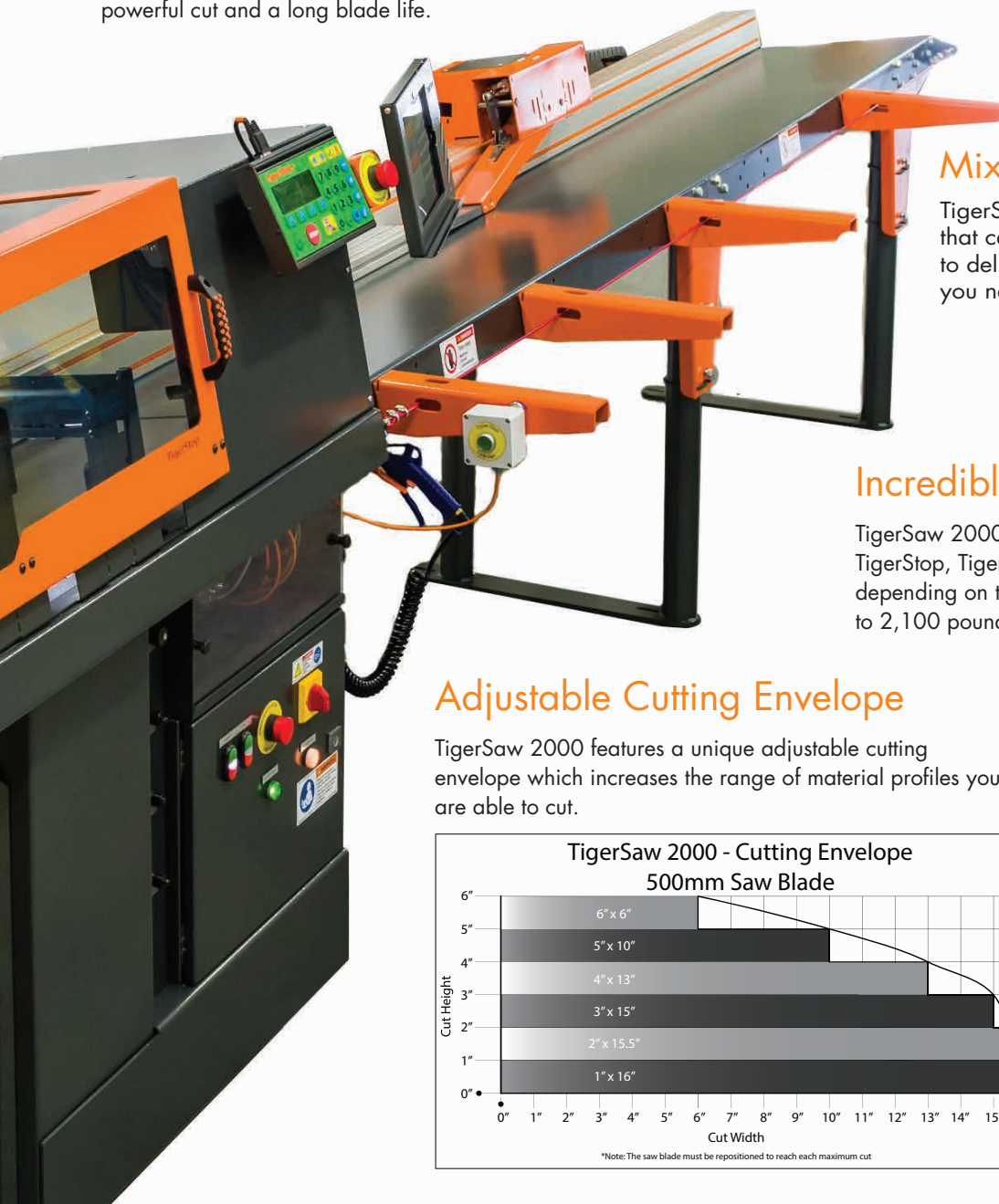
## SPECS

- Power Requirement:  
208 VAC @ 30 Amps FLA  
240 VAC @ 30 Amps FLA  
460 VAC @ 20 Amps FLA  
480 VAC @ 20 Amps FLA
- Warranty:  
1 Year
- Saw Blade Diameter:  
350 mm, 450 mm or 500 mm
- Working Lengths:  
4 - 104 ft (1.2 - 31.6 m)
- Pushing Capacity:  
2100 lbs (952 kg) w/rollers  
490 lbs (222 kg) w/o rollers
- Saw Motor Type:  
10 HP AC Saw Motor, CTEFC
- Drive Type:  
32 mm steel reinforced belt (TigerStop)  
75 mm steel reinforced belt (TigerTurbo)  
Rack & Pinion (HeavyDuty 2)



## Unparalleled Cut Quality

TigerStop takes cut quality seriously. That's why TigerSaw 2000 has an industry leading spray mist coolant system that follows the blade with an air over oil saw stroke cylinder, resulting in a smooth, powerful cut and a long blade life.



## Mix and Match Clamping

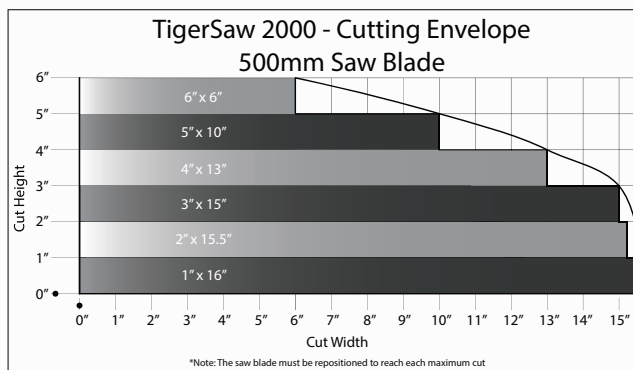
TigerSaw 2000 offers 3 clamping styles that can be used separately or together to deliver the exact clamping solution you need.

## Incredible Pushing Capacity

TigerSaw 2000 can be configured with a TigerStop, TigerTurbo, or a HeavyDuty 2 depending on the desired pushing capacity up to 2,100 pounds.

## Adjustable Cutting Envelope

TigerSaw 2000 features a unique adjustable cutting envelope which increases the range of material profiles you are able to cut.



\*Part tolerance may vary based on system.

- Positioner Motor Type:  
DC Servo w/optical encoder  
AC servo w/optical encoder  
(TigerTurbo, HeavyDuty 2)
- Repeatable Accuracy:  
.012 in (.3 mm)

**ACCURACY\*:**  
+/- **.012** in  
.3 mm

**CAPACITY:**  
UP TO **2100** lbs  
952 kg

**MAX LENGTH:**  
**108** ft  
32.9 m

# AUTOLOADER

Automatic Infeed Station for your TigerStop, TigerTurbo, and TigerSaw 2000

## WHY YOU NEED AN AUTOMATIC INFEED STATION

The AutoLoader is the perfect addition to your TigerStop or TigerTurbo automated positioners and pushers. New and existing TigerStops and TigerTurbos on flat, non-tilted tables, can be upgraded to include automatic infeed stations for increased throughput.

In addition, AutoLoaders greatly increase productivity on the TigerSaw 2000 fully automated saw systems for high capacity wood and metal processing, respectively. TigerSaws can process a lot of material in a day. Running machinery at maximum capacity can often take two operators- one to load and one to sort parts at the back end. With the AutoLoader, a single operator can load the Automatic Infeed Station with up to five pieces or bundles at a time. While the AutoLoader is feeding material the operator can make use of his time performing value-added tasks such as sorting finished parts which have been inkjet or label printed on the TigerSaw.



## SPECS

- Drive Type:  
Pneumatic
- Spacing Between Stations:  
3 or 6 feet
- Load Capacity:  
5 Bundles/Parts
- Warranty:  
1 Year

## Faster Loading with the AutoLoader

TigerStop's AutoLoader is an Automatic Infeed Station that greatly increases the efficiency of your TigerStop, TigerTurbo or TigerSaw 2000 fully automated saw system. The AutoLoader aids throughput without adding additional labor costs.



### Features

Available for TigerStops, TigerTurbos, and TigerSaws

- Flexible material length capacities from 4-30 feet
- Configure anywhere from 2 to 7 loading stations in 3 or 6 foot intervals
- Sensors signal when material is ready to be processed
- AIK (Advanced Interconnect Kit) connects to saw to fully automate cutting
- Safety switch and "kill" line run the entire length
- The AutoLoader is a great solution for processing non-ferrous metals

LOAD CAPACITY:  
**100lbs**  
X5

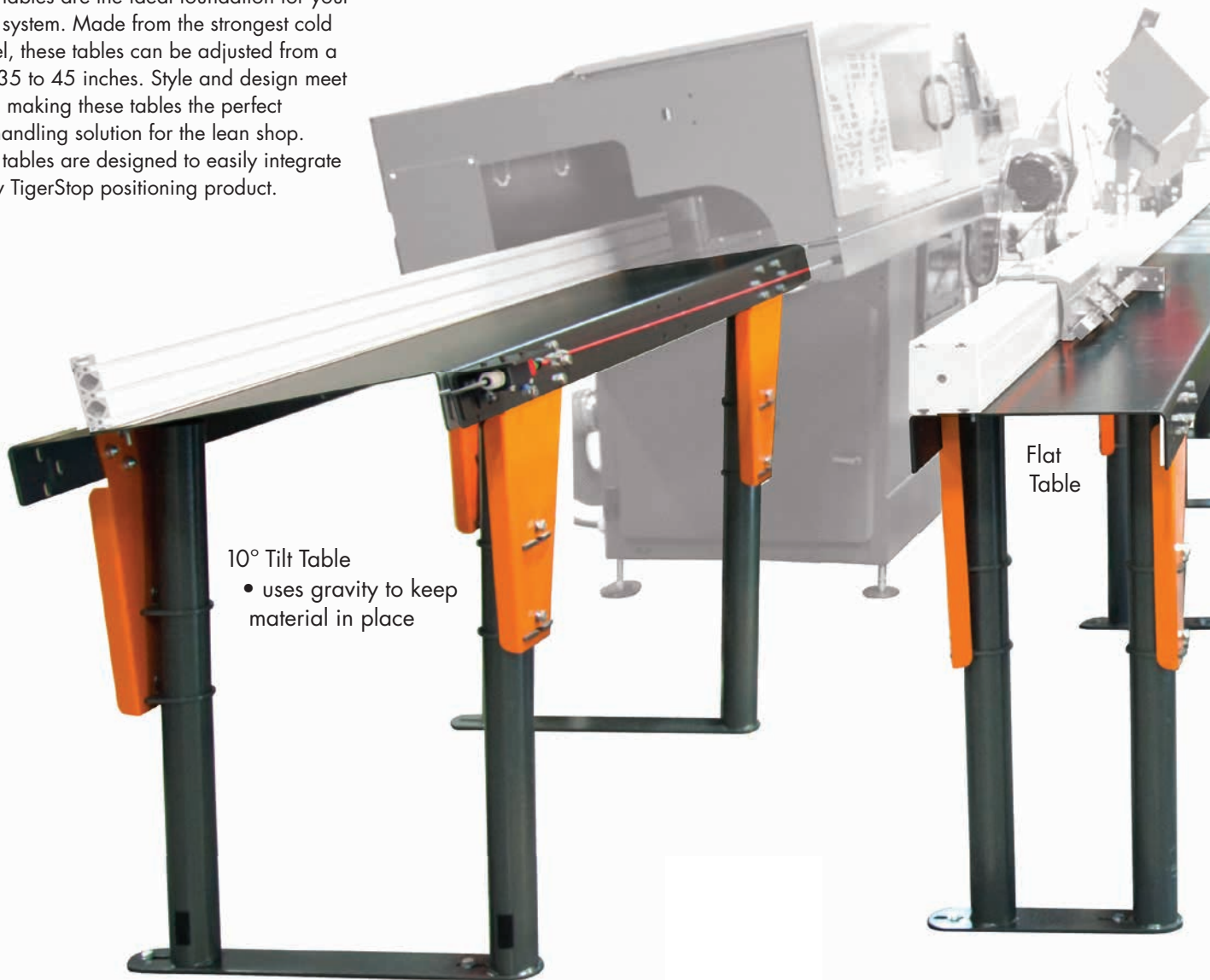
NUMBER OF  
STATIONS:  
**2-7**

MAX WORKING  
LENGTH:  
**30 ft**  
9.14 m

# TIGERSTOP TABLES

## Only As Good As Its Foundation

TigerStop tables are the ideal foundation for your TigerStop system. Made from the strongest cold rolled steel, these tables can be adjusted from a height of 35 to 45 inches. Style and design meet durability, making these tables the perfect material handling solution for the lean shop. TigerStop tables are designed to easily integrate with every TigerStop positioning product.



10° Tilt Table  
• uses gravity to keep material in place

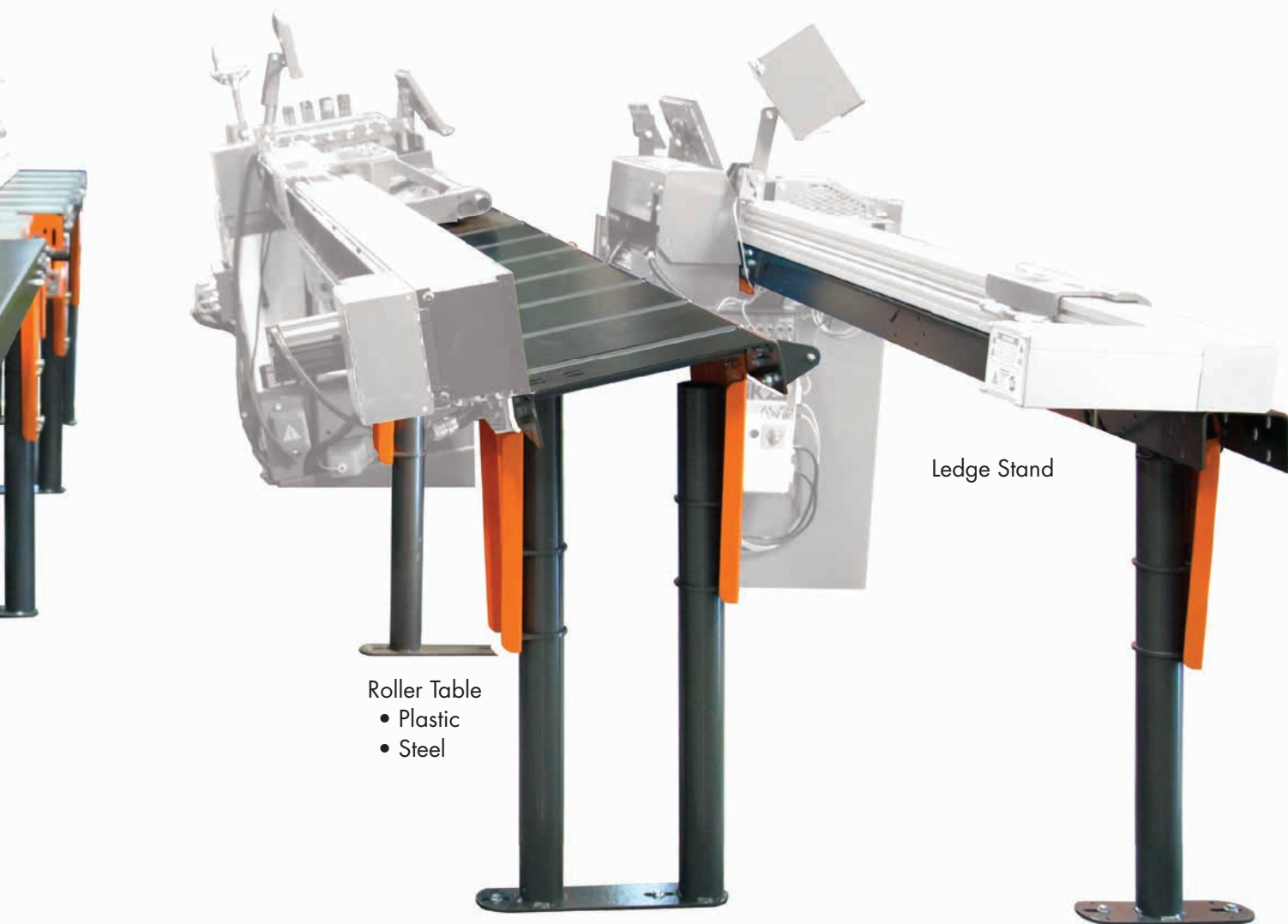
Flat Table

## Flat Tables

TigerStop's flat tables are designed to easily integrate with every TigerStop positioning product. Flat tables are available in 14.4 in (35 mm), 24 in (609 mm) and 31 in (787 mm) widths and can be tilted to a 10° angle using TigerStop tilt brackets. Whether connected to your tool or made into free standing tables with a table leg kit, TigerStop flat tables will stand up to any job!

## SPECS

- Material:  
3/16 in (4.7 mm) cold rolled plate steel
- Height Adjustability:  
35 - 45 in (889 - 1143 mm)  
Legs can be cut for shorter lengths
- Available Widths:  
14.4 in (365 mm)  
24 in (609 mm)  
31 in (787 mm)
- Table Extras  
Steel Rollers  
Plastic Coated Rollers  
10° Tilt



Roller Table  
 • Plastic  
 • Steel

Ledge Stand

### Roller Tables

TigerStop Roller Tables are available in all 3 standard TigerStop table widths and can be equipped with steel or plastic coated rollers. The table tops can be set up flat or tilted to 10° using TigerStop tilt brackets.

### Ledge Stand

The Ledge Stand is a small 6.5 inch wide table ledge that is perfect for quickly removing parts after they are cut.

- Optional Accessories:  
 Table Back Fence  
 Saw Attachment Plate  
 Universal Brackets for Mounting  
 Chop Saw Support Stand

HEIGHT:  
**35 - 45** in  
 889 - 1143 mm

WIDTHS:  
**14.4, 24 & 31** in  
 365, 609 & 787 mm

MATERIAL:  
**3/16** in  
 4.7 mm  
 COLD ROLLED STEEL

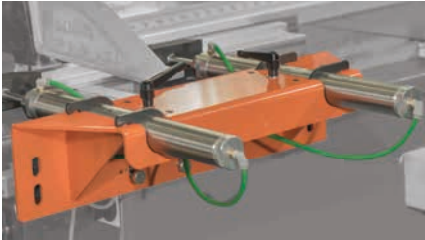
# ACCESSORIES

Find the Perfect Fit for your TigerStop

## TigerStop Clamping Options

TigerStop has add-on manual and pneumatic clamping options to suit any application.

### TigerClamps



TigerClamps, combined with an Advanced Interconnect Kit, are an automatically controlled pneumatic horizontal clamping system that increases finished part accuracy and simplifies material handling. Clamps have a 12 inch (304 mm) stroke.

### Spring Clamps



Spring Clamps are manual clamps with a spring steel or plastic clamp that can attach to almost any tool. Adjustable from 4 to 18 inches (101 to 457 mm)

## Advanced Interconnect Kit

The Advanced Interconnect Kit is a component that can turn your TigerStop work cell into a fully automatic sawing system. This allows TigerStop to take control of your tool and monitors your tools safety circuit. Advanced Interconnect Kit adds a safety kill line that is mounted across the TigerStop table for a quick easy way to stop the system.



## Extended Pusher Foot



Extends reach of TigerStop by 21.75 - 29.75 inches (628.63 - 755.65 mm).

## Gangstop



Want to process more than one piece at a time? The Gangstop will do the trick. This rugged unit has a built-in spring buffer to absorb reasonable loading shock and 4-way adjustment to guarantee perfectly aligned installation. Extends reach of TigerStop by 11.5 - 19.5 inches (292.1 - 495.3 mm).

## Spring Buffer Heavy Duty



If your material is heavy, or you think your operator might be hitting the machine too hard during loading, then the Spring Buffer Heavy Duty protects your machine and allows for multiple piece processing. Extends reach of TigerTurbo and Heavy Duty 2 by 20 inches (508 mm) from carriage.

## Miter Gauge



For any application where you need a 45 degree angled surface. The unique miter retention clip snugly holds your mitered pieces. Extends reach of TigerStop® by 2.5 - 9.5 inches (63.5 - 228.6 mm).

## Mini Gangstop



The Mini Gangstop is designed to fit as many applications as possible. It can accommodate thin material, can be configured for pack sawing and can be adjusted based on part width. Extends the reach of TigerStop® by 6 - 23.5 inches (152.4 - 596.9 mm).

## Tube & Pipe Gripper



Extends the reach of the pusher into the saw envelope and specifically into the clamping fixture to ensure 100% use of material. Extends reach of TigerStop or TigerRack™ by 11-31 Inches (279.4 - 787.4 mm).

If you have an application, you can bet that TigerStop<sup>®</sup> has an accessory to help push, pull or position your material. It doesn't matter if you have a TigerStop, TigerTurbo<sup>™</sup> or Heavy Duty 2<sup>™</sup> ... we have a solution for you!

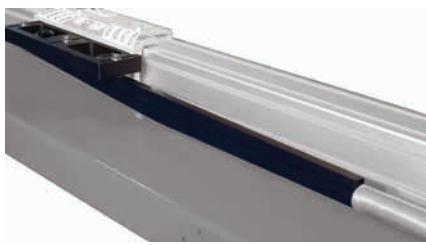


### Spring Buffer



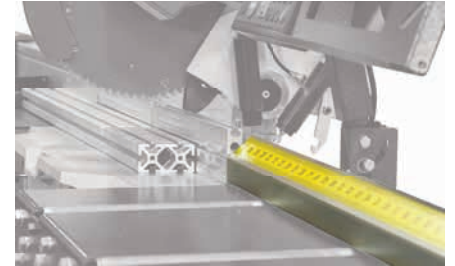
Use Spring Buffer when material being processed is heavy and damage may occur if an operator were to slam material against the stop. Spring Buffer will help extend belt life and cushion your TigerStop against accidental impacts. Extends reach of TigerStop by 3 - 16 inches (76 - 406 mm).

### Center Pusher



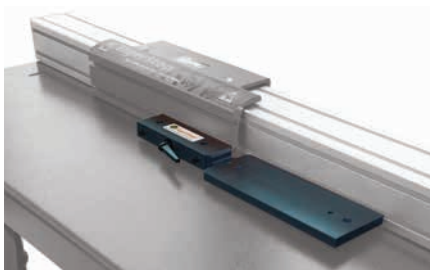
Extends the reach of the pusher into the saw envelope and specifically into the clamping fixture to ensure 100% use of material. Extends reach of TigerStop by 4.75-25 inches (120.65 - 685 mm).

### Back Fence & Back Fence Ruler



The TigerStop Back Fence & Back Fence Ruler is an integral part of any TigerStop optimizing system. Designed to fit TigerStop<sup>®</sup> tables, but can be easily fit to any existing table. The Back Fence Ruler is an adhesive ruler that can be applied to a TigerStop Back Fence, or to any ruler. Available in inches or metric. From right-to-left or left-to-right.

### Pusher Foot



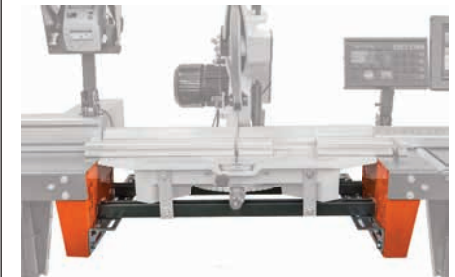
Extends reach of TigerStop by 10.5 - 11.625 inches (266.7 - 295.27 mm).

### TigerTurbo/Heavy Duty 2 Gangstop



Need to push more than one piece at a time? This Gangstop is your solution for TigerTurbo and Heavy Duty 2. Extends reach by 20 inches (508 mm).

### Chop Saw Support



The Chop Saw Support provides an easy solution for mounting bench top tools to your TigerStop table system. Adjustable up to 22 inches (558.8 mm) between front and back mounting holes by 36 inches (914.4 mm) long (can be cut down). It comes with 2 extra legs to create a free standing TigerStop<sup>®</sup> table system.

### Extended Miter Gauge



With all the features of the Miter Gauge, the Extended Miter Gauge extends the reach of the pusher into the saw envelope and specifically into the clamping fixture to ensure 100% use of material. Extends reach of TigerStop by 19.5 - 27.5 inches (495.3 - 698.5 mm).

### Pusher Miter Fence



Extends the reach of the pusher into the saw envelope and specifically into the clamping fixture to ensure 100% use of material. Extends reach of TigerStop by 24 inches (609.6 mm).

# SOFTWARE

## TigerSet Software

The TigerSet software upgrade opens up a communication port on your TigerStop so you can use a PC, PLC or Barcode Scanner to control your TigerStop systems.

## TigerStopSDK

Using TigerSet you are able to download TigerStop's free open source Software Development Kit (SDK) to create your own code. TigerStop's SDK is a set of tools to help you develop software for the TigerStop hardware platform. The commands are completely free and available on GitHub: <https://github.com/TigerStop>.



## 2 & 4 Inch Label Printing

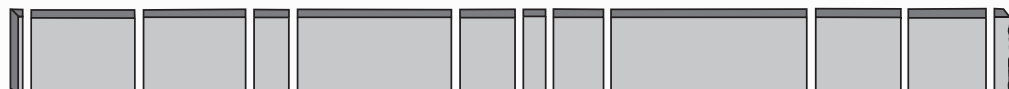
TigerStop® 2 inch and 4 inch label printers print length and quantity information for each processed part. You can also print custom part labels when used with TigerLink 6™ downloading software upgrade.



## Dynamic Optimization™

Our industry leading Dynamic Optimization linear nesting software will scan your part list and determine the best way to cut your parts to give you maximum use of your material, saving 40% material on average and that's savings that goes straight to your bottom line.

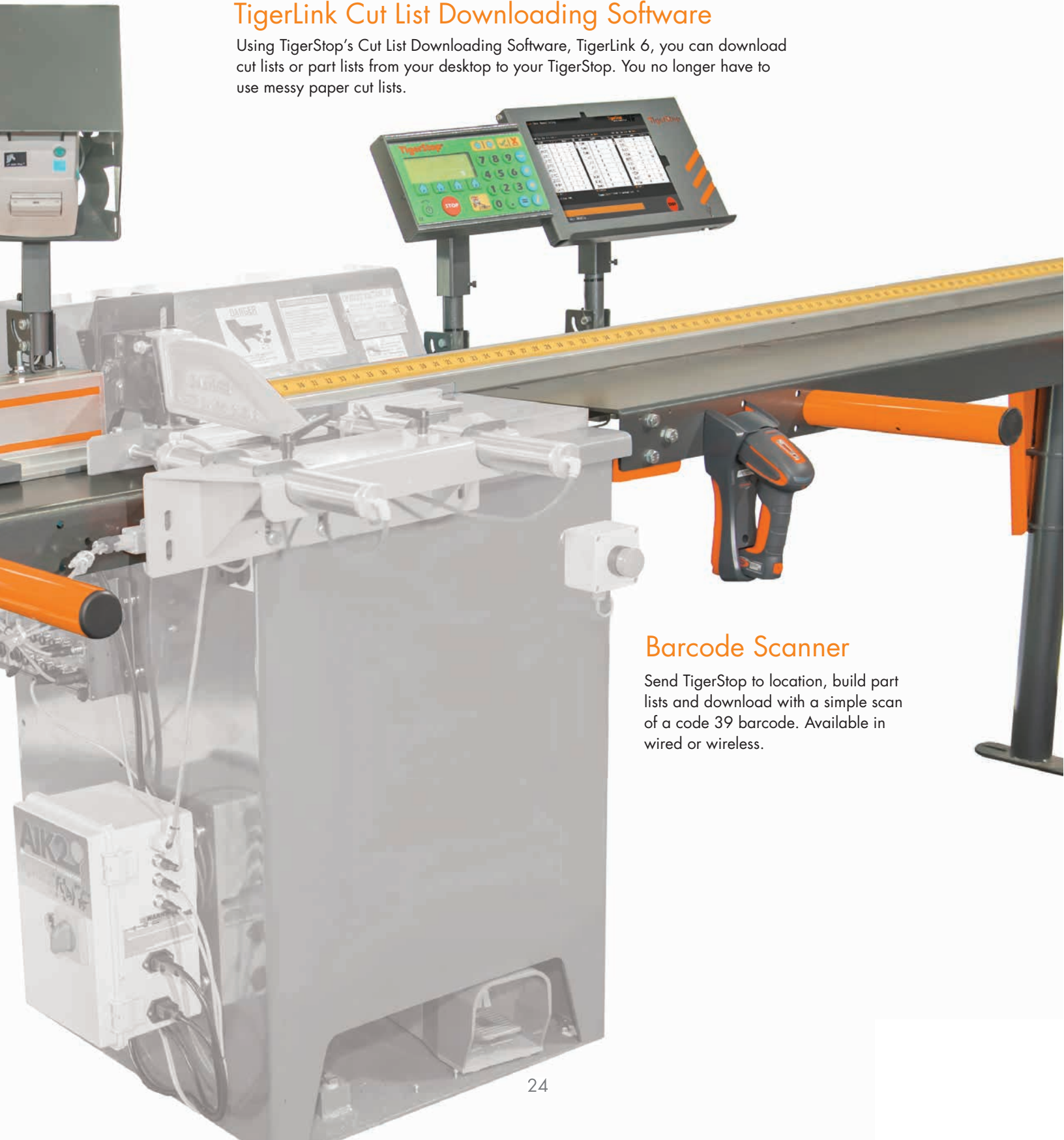
Dynamic Optimization™ can be added to any TigerStop when built or can be added as an upgrade at any time.





## TigerLink Cut List Downloading Software

Using TigerStop's Cut List Downloading Software, TigerLink 6, you can download cut lists or part lists from your desktop to your TigerStop. You no longer have to use messy paper cut lists.



## Barcode Scanner

Send TigerStop to location, build part lists and download with a simple scan of a code 39 barcode. Available in wired or wireless.

# TIGER TOUCH

Touch screen control and Dynamic Optimization™ for every TigerStop

## Advanced Touch Screen Control

Any TigerStop can be enhanced with cutting edge touch screen control with TigerTouch. From manual, all the way to fully automatic processing, TigerTouch can simplify any cutting process by putting full control at your fingertips.

## Easy-to-Learn Technology

TigerTouch's intuitive user interface was designed for ease of use. New operators will have no problem getting up to speed.

## Design and Data Come Together

TigerTouch combines a sleek interface with TigerStop's innovative software solutions. It provides a highly sophisticated visual representation of material optimization and defecting, as well as cut list processing. View statistics for each part and use customizable hot keys for increased efficiency.

Start Move Manual Settings

TigerStop

Length	Quantity	Remaining	Length	Quantity	Remaining	Length	Quantity	Remaining
11.750	10	10	18.250	16	16	13.375	8	8
14.750	4	4	5.875	2	2	13.375	12	12
13.063	4	4	24.125	4	4	20.563	8	8
15.375	4	4	9.250	16	16	20.563	12	12
23.375	2	2	30.750	14	14			
26.750	4	4	9.375	2	2			
			31.000	2	2			
			9.500	4	4			
			36.250	20	20			
			9.750	6	6			

From List 1 (m) P12 From List 2 (m) 8 From List 3 (m) 8

Position: 138.860in

STOP

Start Move Manual Settings

TigerStop

Length	Quantity	Remaining	Job	Matl. Noval	Prod	Essence	Type
11.750	10	9	293543C	DS06	D12	11.75	Montant
14.750	4	4	293543C	DS06	D12	14.75	TRAVERSE CAR
13.063	4	4	293543C	DS06	D12	13.0625	Montant
15.375	4	1	293543C	DS06	D12	15.375	TRAVERSE CAR
23.375	2	2	293543C	DS06	D12	23.375	TRAVERSE CAR
26.750	4	2	293543C	DS06	D12	26.75	TRAVERSE CAR

From List 1 (m) D12

Position: 135.837in

STOP

Start Move Manual Settings

TigerStop

Length	Quantity	Remaining	Length	Quantity	Remaining	Length	Quantity	Remaining
11.750	10	10						
14.750	4	4						
13.063	4	4						
15.375	4	3						
23.375	2	2						
26.750	4	4						

From List 1 (m) D12 From List From List

Position: 68.800in

STOP

Start Move Manual Settings

TigerStop

Length	Quantity	Remaining
11.750	10	10
14.750	4	4
13.063	4	3
15.375	4	2

From List 1 (m) D12

Statistic	Result
Longest Piece	26.750
Shortest Piece	11.750
Total Pieces	25
Waste Remaining	15
Total Material	368
Waste	114.6
Yield	48.5%

Position: 112.074in

STOP

## Unparalleled Control

Process your parts in manual, semi-automatic, or fully automatic mode when used in conjunction with your TigerStop Advanced Interconnect Kit. TigerTouch can take control of any TigerStop product and turn it into a high-tech workcell.

## One Place for Everything

Download an infinite number of cut lists from your office design software to TigerTouch, then watch TigerTouch use TigerStop's Dynamic Optimization software to turn that data into finished parts with custom printed labels. TigerTouch becomes the control hub for all TigerStop functions.



## Dynamic Pack Optimization

TigerStop offers a brand new software upgrade for TigerTouch called Dynamic Pack Optimization. Dynamic Pack Optimization optimizes entire packs or bundles of like-profiled material, rather than single pieces. It does so quickly and accurately while tracking material usage statistics data.

Dynamic Pack Optimization allows operators to achieve maximum productivity. It quickly calculates the greatest number of profiles an operator can load while achieving the best yield and preventing over-cutting of expensive raw stock. It can be used while processing metal, wood, composites, and plastics.

### How it works?

Using TigerStop's patented TigerTouch tablet software coupled with the Dynamic Pack Optimization software upgrade, the operator simply enters the stock profile he would like to cut or process. The operator then enters the maximum number of like-profiles his saw envelope or machine tool can process at one time. Using its world class proprietary algorithm, the Dynamic Pack Optimization software tells the operator how many pieces of stock to bundle together in the pack resulting in the best yield and productivity, while preventing over-cutting.

# DYNAMIC OPTIMIZATION

## What Is Dynamic Optimization™?

TigerStop's Dynamic Optimization, also known as linear nesting, is an instant and mathematically precise method to determine how to process material for the best yield.

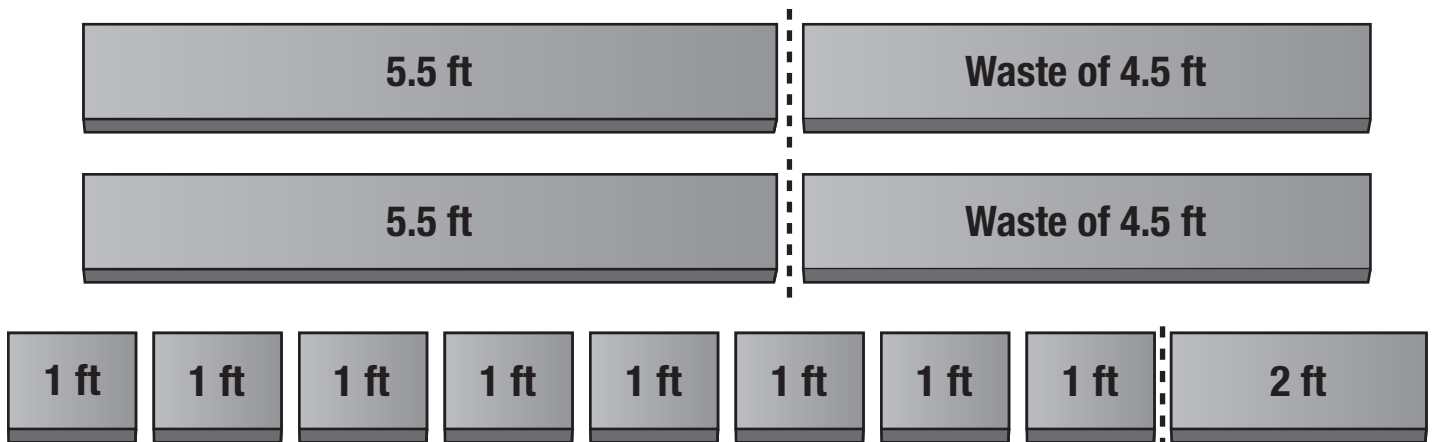
## Does Order Matter?

YES! The order in which you cut your parts from your stock material can have a dramatic effect on your overall material yield.

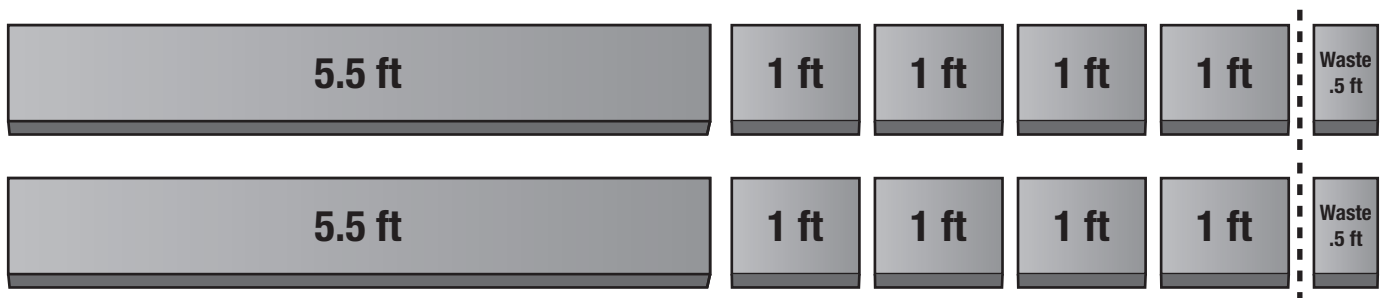
## Consider This Example

You are making a frame out of square stock. You want to make it 5.5 ft wide and 1 foot high. So you need 4- 5.5 ft pieces and 8- 1 ft pieces to complete the frame. Your stock comes in 10 ft lengths. Let's look at the ways to lay this out.

You could follow the list exactly and cut longest parts to shortest, that would leave you with three 10 ft. lengths of stock used and 11 ft. of waste.



Or you could use TigerStop's Dynamic Optimization to quickly determine the best cutting order with the least amount of scrap waste.



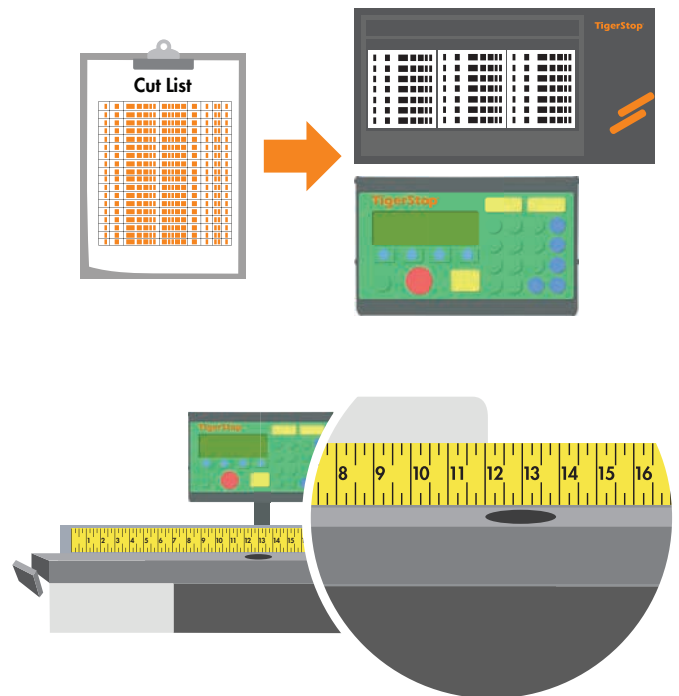
In this example, you use two pieces of stock and have only 1 ft. of total waste.

## How Does This Help Your Business?

- Dynamic Optimization determines the best use of material, so the operator only has to focus on feeding parts and cutting.
- TigerStop moves to the correct position up to .004" so the operator never has to use a tape measure or set a manual stop ever again.
- TigerStop reduces station set up time between different cut lengths and allows the operator to optimize for defects like forklift stabs, shipping damage, dents, or aesthetic blemishes, while getting optimal yield.
- TigerStop increases accuracy. The operator doesn't have to worry about cutting errors or the associated costs of rework. Quality control concerns are no longer a bottleneck.
- Dynamic Optimization reduces scrap waste and shelving costs. Purchase less raw footage while sending fewer pounds back to the recycler.
- A TigerStop Dynamic Optimization station can even be used by an unskilled worker. Top paid fabricators and skilled workers can better use their time managing the shop or doing work requiring greater expertise.

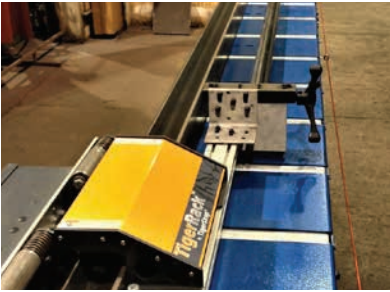
## How Does Backboard Optimization Work?

- First the operator enters his cut list into the TigerStop. He can do this manually or using the TigerLink 6™ downloading upgrade. Then he presses the done button.
- The operator grabs a piece of raw stock and makes a trim cut to square the raw edge. If there's an aesthetic defect in his material or a forklift stab he simply enters the distance from the trim cut to his first defect. TigerStop's Dynamic Optimization will use its proprietary algorithms to find the best yield of the material with the least amount of waste, and move to the correct position.



The operator feeds stock to the TigerStop. When he reaches the first defect he cuts it out and enters the next usable clear length. He continues to make cuts until stock completion, only moving material and cycling the saw. He repeats until TigerStop® indicates the job is done.

# APPLICATIONS



## TigerRack on a Cold Saw

The TigerRack length stop, integrated with National Railway Equipment's cold saw, ensures that heavy metal stock up to 720 lbs. is accurately positioned for cutting. It cost effectively replaces a tape measure or any manual clamping system and its steel roller tables allow heavy duty material, such as tube and bar stock, to glide smoothly through the cutting application.



## SawGear on an Aluminum Copy Router

SawGear automated positioners are used to increase accuracy when operating aluminum copy routers. Milling aluminum window and door components is faster using SawGear's pre-saved cut list function.



## TigerStop on a Hydraulic Press

United Enertech uses a TigerStop on its hydraulic press for processing repeated patterns. Using TigerStop's Advanced Interconnect Kit has allowed the operation to be fully automated and virtually autonomous, saving time and increasing throughput.



## TigerStop on a Bandsaw

Oneida Air Systems uses a TigerStop gauge on a bandsaw to cut down on waste and labor hours spent manually measuring HVAC parts. The TigerStop is imperative to Oneida's workflow and allows for increased productivity.



## TigerStop on a Circular Cold Saw

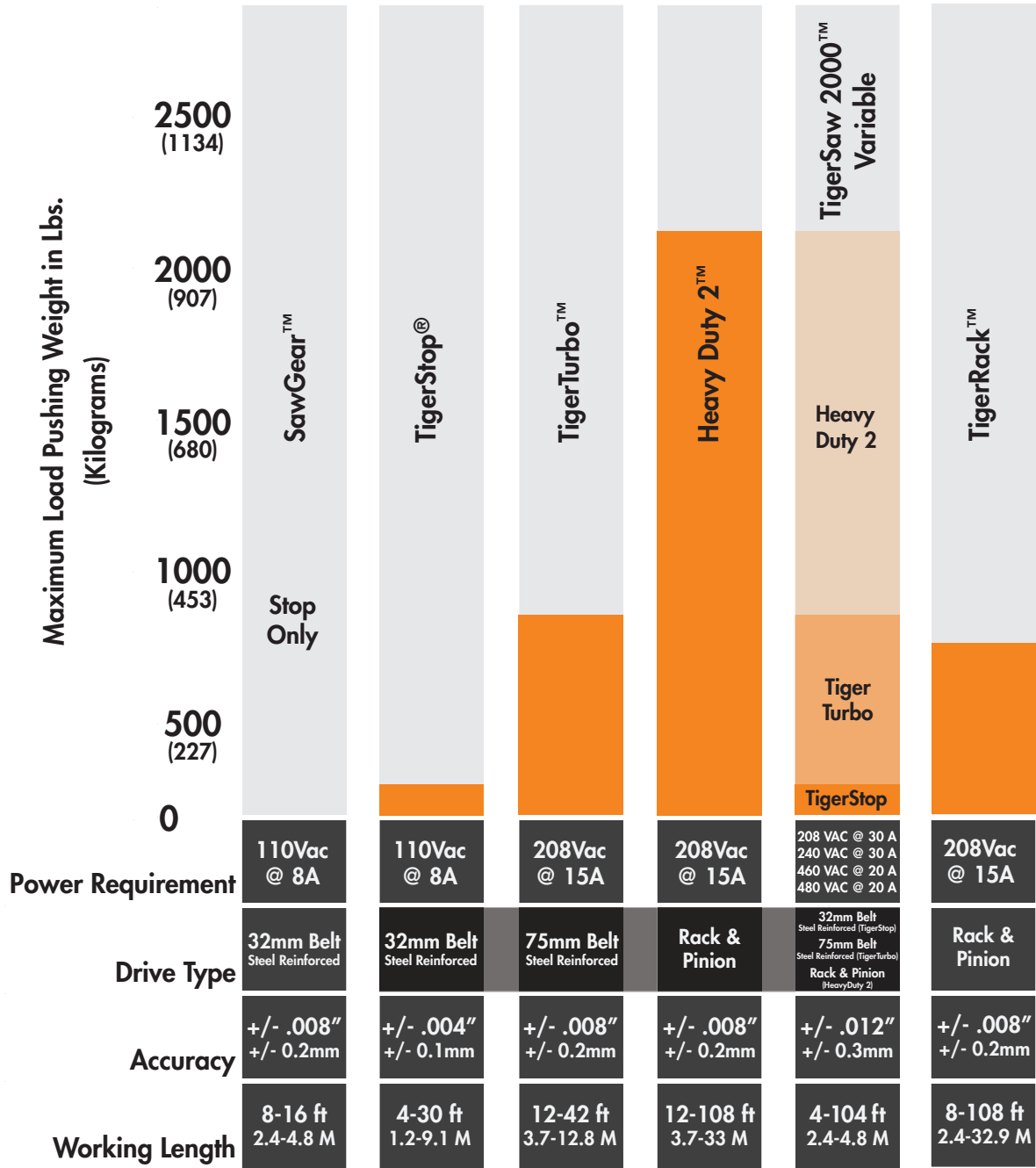
WS Display uses a TigerStop pusher on its cold saw. It is simple to use so every operator is its best operator. The TigerStop is so accurate and efficient that the scrap bin is filled only once every 3-5 months.



## TigerStop on a Cold Saw

Classic Exhibits uses a TigerStop automated pusher to process aluminum in its exhibit and set production operations. Using a TigerStop guarantees parts are cut quickly and accurately and allows the business to remain a competitive just-in-time manufacturer.

# SPECIFICATIONS



Country of Mfg **Made in America\***

Accuracy Validation **NIST** National Institute of Standards and Technology Certified

All TigerStop products have one or more of the following certifications

Certifications



**TigerStop LLC**

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