

# RAZORGAGE

AUTOMATIC SAW MEASURING SYSTEMS

## RAZORGAGE ST

BETTER  
BY  
DESIGN



5 Year Belt Warranty!

Programmable  
saw stops and  
pusher systems that  
have set a new  
standard for accuracy,  
repeatability and  
dependability



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# RazorGage ST *Automatic Saw Measuring System*



The RazorGage ST Automatic Saw Measuring System is at the heart of our product line. Whether you use the ST as an automatic pusher or a measuring stop, this digital measuring fence can be used with a chop saw, upcut saw, downcut saw, drill press, haunching, notching and punching machines.

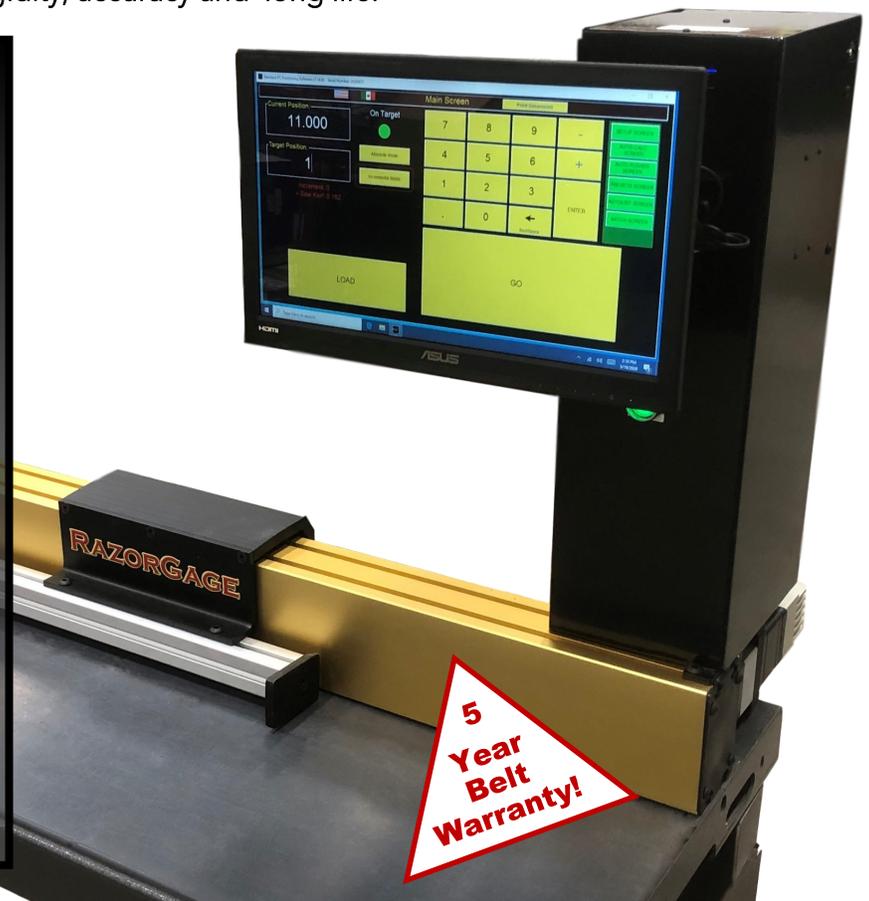
When looking to improve the output and efficiency for your operations, the RazorGage ST offers the highest degree of accuracy, repeatability and long-lasting dependability.

This system features a hi-performance motion controller that reacts quickly to jams, eliminating stretched belts.

The carriage assembly features a Hiwin hardened & ground, linear bearing rail with 2 recirculating ball bearing blocks just like you see on CNC machining centers for near friction-free motion, maximum rigidity, accuracy and long life.

## FEATURES

- ◆ Windows PC with hi-resolution touch screen
- ◆ Networks easily using ethernet or WiFi and has tons of features
- ◆ Store 1000s of cutlists
- ◆ Optional optimizing software reduces waste material. Sorts cutlists into 1000's of groups according to multiple criteria, and much more
- ◆ Fraction Keys adjust position in just a few key strokes
- ◆ Uses the same linear bearings found on CNC machining centers
- ◆ Near zero backlash planetary gearhead & drive pulley
- ◆ 5 Year Belt Warranty
- ◆ Available in stroke lengths up to 60'



## PC Options

### WINDOWS 10 PRO TABLET

Our most popular interface. Supports all RazorGage functionality. Transfer data via Ethernet, Wi-Fi, Bluetooth, or USB port.



### WINDOWS 10 PRO TOWER

Includes a hi-resolution touch screen monitor. Cables pass through foam compression opening to prevent dust and chip penetration. Multiple USB & Ethernet port, Bluetooth, & Wi-Fi. Extra space makes this a perfect enclosure for RazorGages with custom machine control functions.

# RazorGage ST *Better Hardware*

## OUR PREMISE

An automatic saw measuring system only benefits your business if you can trust it to position accurately every day.

## MECHANICAL FACT

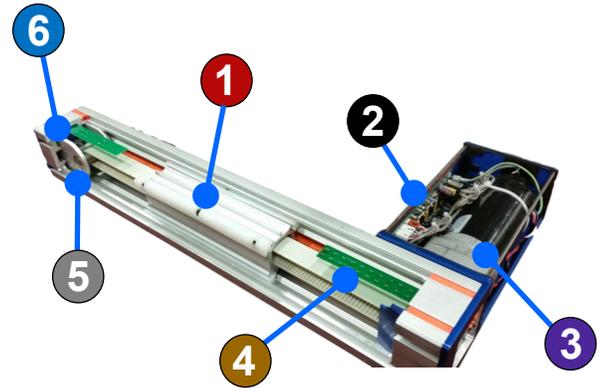
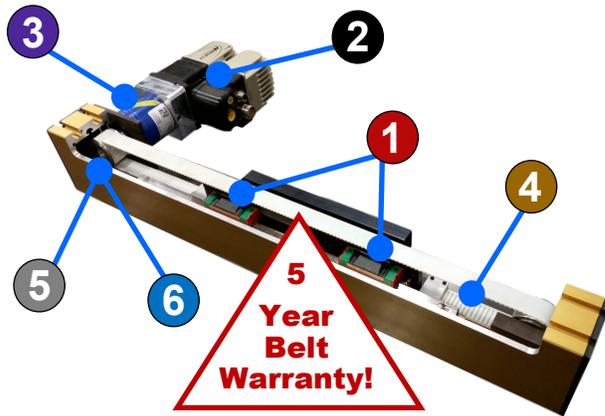
Since most automatic saw measuring systems calculate stop position based on motor rotation, drive component precision is crucial to long term accuracy.

## OUR CONCLUSION

- The conclusion is simple - the quality of the drive components directly affects return on investment.

*RazorGage continually exceeds expectations due to the design and quality of our components.*

### Compare RazorGage to other Positioners



1	<p>The RazorGage positioning carriage mounts on two re-circulating ball bearing blocks sliding on a hardened &amp; ground steel rail. Just like you see on CNC machining centers!</p>		<p>Competitor uses plastic strips sliding on aluminum as the positioning carriage bearing.</p>
2	<p>RazorGage electronics are sealed inside IP54 rated housing impervious to chips.</p>		<p>Electronics sensitive to chips are inadequately protected.</p>
3	<p>RazorGage utilizes a planetary gear-head with 3 load paths transmitting torque &amp; less than 7 arc minutes of backlash to maximize accuracy.</p>		<p>Spur gear style reducer others use, with 1.2 gear teeth transmitting load, is prone to excessive backlash.</p>
4	<p>RazorGage uses no sensors for homing or end of travel eliminating the need for failure prone components and wiring.</p>		<p>Contamination sensitive sensors inside the beam require long cable runs around sharp corners.</p>
5	<p>30 tooth drive pulley used on RazorGages has a larger bend radius increases belt life and twice the teeth to resist tooth shear.</p>		<p>15 tooth pulley competitor uses, has a tighter bend radius reducing belt life and half the teeth to resist tooth shear.</p>
6	<p>The RazorGage drive pulley is machined to match the belt tooth profile eliminating backlash.</p>	<p>Zero Clearance</p>	<p>1/64" Clearance</p> <p>Standard pulleys have 1/64" clearance allowing backlash which reduces accuracy.</p>



# RazorGage ST *Options & Accessories*

## TABLE OPTIONS



- Height adjusts from 34.5" to 44.5"
- 3 surface options;
  - ⇒ 1/4" Solid PVC Sheet
  - ⇒ PVC Rollers
  - ⇒ Steel Rollers
- Durable powder coat finish

## CHOP SAW TABLE



- Height adjusts from 34.5" to 44.5"
- Works with all saw brands
- Durable powder coat finish
- Saw platform adjust to allow perfectly flat transition from table to saw

## TABLE ATTACHMENT BRACKET



- Easy to adjust height and front-to-back table position for perfect transition to the work surface and fence
- Secures table to machine to eliminate movement
- Durable finish

## LABEL PRINTER & STAND



- Print paper labels to help keep your parts organized.
- Printer can be purchased with or without the printer stand*

## BASIC STOP EXTENSION (BSE)



- Allows the material Stop to be adjusted so it extends close to the blade
  - Available in 2' to 6' lengths
- Picture shows 2' BSE attached to RazorGage*

## GANG STOP



- Use when pushing boards that are stacked or placed side by side
- Standard size—13" wide x 3.5" high
- Custom sizes available

## GRIPPER



- Grips material so it doesn't roll away when being pushed on a roller table
- Only works on hollow extrusions or solid material that has a "fin" like feature

## HEAVY DUTY GRIPPER



- Grips heavier material so it doesn't roll away when being pushed on a roller table
- Only works on hollow extrusions or solid material that has a "fin" like feature

## ADJUSTABLE BRACKET

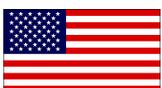


- Front-to-Back adjustability for the extension arm
- Shown with "birds mouth" stop which is used for double miter saw stop applications*

## MITER STOP



- Safely secures 45° mitered ends against the stop when pushing material



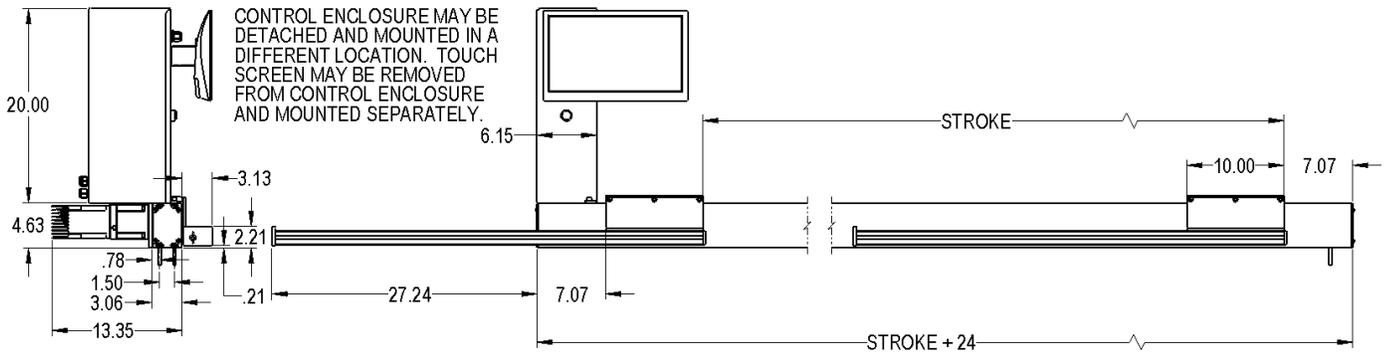
# RazorGage ST *Specifications*

## Technical Details

**Accuracy:**  $\pm .004''$  over 12 feet if calibrated with a capable measuring device.  
**Repeatability:**  $001''$   
**Push Force:** 200 lb at 10 ips  
**Max Speed:** 55 ips

**Power Req'd:** 120 VAC / 10 Amps  
**Interface:** Hi-resolution Touchscreen with Standard Enclosure or Optional Tower PC  
**Networking:** Wifi or Ethernet  
**Operating System:** Windows 10 Pro  
**Length:** Available in 4~60 Foot Stroke

## Space Requirements for Standard Enclosure w/ PC Option



## Space Requirements for Tower Enclosure w/ PC Option and Tables

