



AUTOBRAKE®

QUOTE

Model SBS159-16

9/7/2021

USA  MADE

The "USA MADE" logo features the word "USA" in a bold, sans-serif font, followed by a stylized American flag graphic with three horizontal stripes (blue, white, and red) and a vertical stripe (blue, white, and red). The word "MADE" is in the same bold, sans-serif font as "USA".

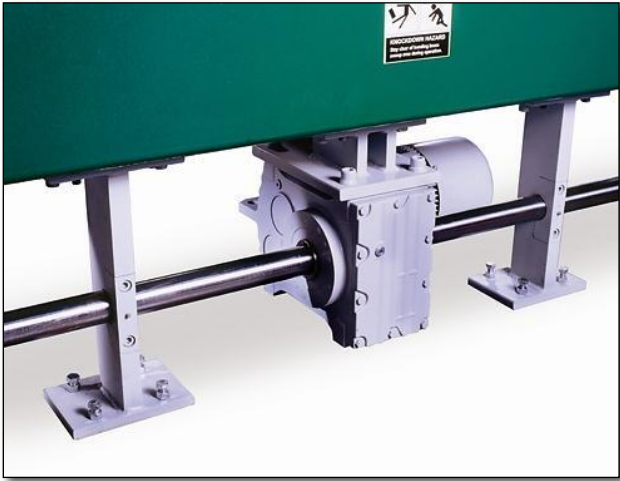


SBS Folding System

The Tensmith SBS Series mechanical folding system utilizes a low maintenance design, coupled with an array of standard features for an attractive combination of high value and solid performance.



The SBS Series incorporates a twin motor (Left and Right) direct drive system for the folding beam. This allows the system to be fast and extremely accurate. The twin motor design is capable of bending speeds up to 80 degrees per second. This design also eliminates torque build up commonly found on competitor's chain drive folders. Torque build on a chain drive design will lead to uneven or "fade out" bends. The "fade out" is especially noticeable, on chain drive machines, when forming radius profiles. The SBS result, straight more even part production. Another advantage to this system is maintenance. Unlike with a chain drive folder, there are no adjustments needed to the SBS drive system.



For maximum hemming capacity, a strong feature of the Tennsmith SBS Series is the center drive of the clamping system. The placement of the motor in the center of the machine maximizes power while reducing torque loss through the drive shaft. The twin support legs of the SBS provide positive resistance to the floor enhancing machine rigidity. The benefit is greater hemming capacity for the SBS159-16.

The center placement of the clamping motor also benefits the forming of radius profiles. To achieve consistent radial shapes, it is very important to have even clamping pressure. Equal clamping pressure will ensure the part is formed evenly throughout the entire profile.



The SBS159-16 comes standard with crowning system. This crowning system gives SBS owners the most complete adjustment of any standard sheet metal folder on the

market today. Gone are the days of shimming your machine to achieve straight bends. The crowning system is easily adjusted and has a scaled face plate that reads 0 to 0.030". This allows you to adjust your machine the same for a wide variety of materials time and time again. Another benefit of the SBS crowning system is radius profiles. With this set-up you will be able to accurately bend straight perfect radius profiles.

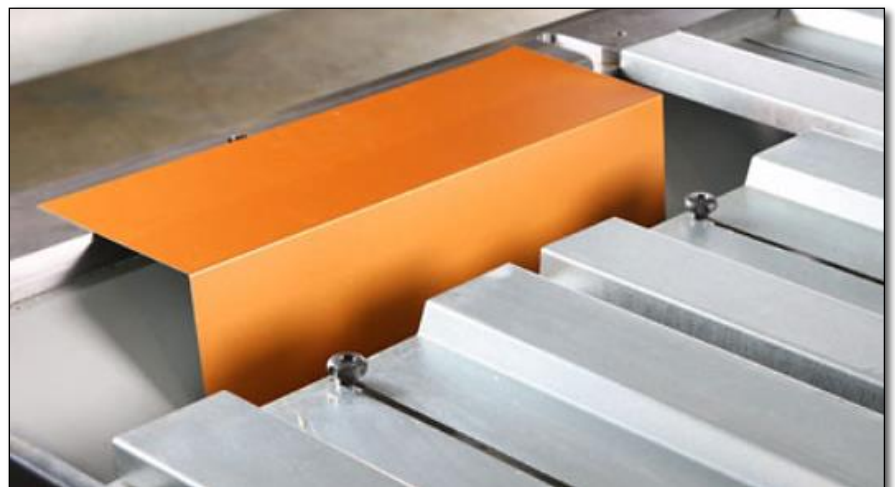


Rear view of the SBS



The back gauge for the SBS159 Series features a twin ball screw design. The system is fast extremely accurate and incorporates 16 solid fingers. All three drive systems of the SBS Series: Folding beam, Clamping Beam and Back-gauge are controlled by frequency inverters, giving the SBS unbeatable accuracy and performance.

The material support panels of the SBS are slotted. This allows the panels to be moved back for the bending of reverse or down flanges within the machine. Just one turn of the support panel knobs allows quick and easy adjustment.





Intelligent Controls

Synergy is the newest software designed for Tennsmith's line of powered folding machines. It is a highly advanced CNC system that takes the complexity out of programming and running parts. The full-color, graphical touch screen allows you to store, browse and search for parts, as well as create new parts on the fly.

Control Features

- Windows 8.1 imbedded industry pro.
- Automatic sequencing of the part that is drawn.
- Possibility of saving programs in folders and subfolders.
- 3D Part display.
- Part simulation to verify bends sequence, material handling and collisions.
- A search function is used to make it easier to identify a part.
- Calculates the stretch out of the part.
- Export of programs, library materials and back up to USB stick.
- The actual values of the axis are shown on the display, as well as the motion of the machine in real time.
- There are 3 different hems: Open Closed or Tear Drop.
- Capable of importing DXF files.
- Konstruct offline programming
- Konnect online service and operator assistance.
- Accepts Eagleview® files

With Synergy, you have the option to purchase Konstruct. The Synergy software brings together information from the office-based Konstruct program and the field-based Konstruct Mobile with Tennsmith's technical support program Konnect.

The Tennsmith SBS control is easy to learn and easy to use. The most inexperienced operator can be trained to produce complex parts in minutes using the SBS system. While the SBS control is simple to use, it offers every tool necessary for producing the most accurate and complex parts of any light gauge folder on the market today.



Greater Control

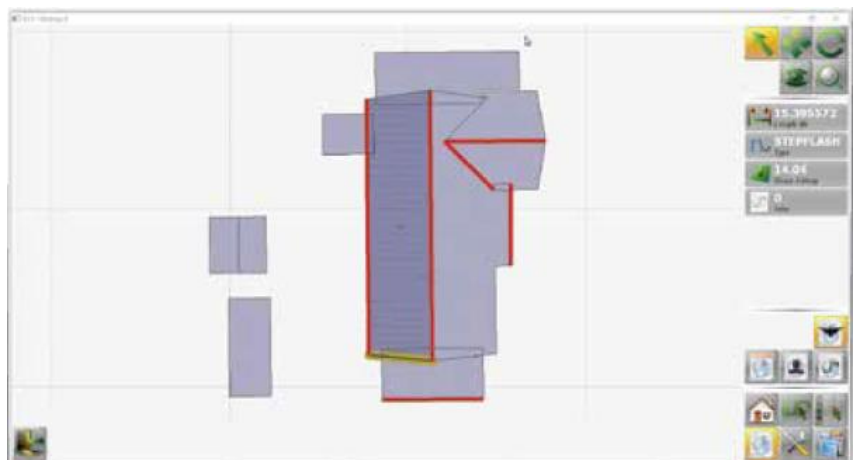
Konstruk is a new innovative software package created and used exclusively by Tennsmith. This software package allows the office to communicate directly with the Autobrake Synergy control. The office administrator can create, manage and monitor the activities on the folding machines. Parts are created the same way as they would be on the machine. It is as simple as drawing the shape with the correct angles and dimensions and the software does the rest. The part is then automatically sequenced so that the proper bend order is followed. The type of material, number of pieces and all other information is entered and the job is ready to be run. The administrator can then see what jobs are waiting to be run, what is in process and what has been completed giving you greater control over your shop processes.



Konstruk Capabilities

- Order parts virtually from anywhere
- Choose from existing parts
- Import DXF files or create new parts
- Select colors, thicknesses and material types
- Render a 3D model of the part
- Automatically calculates part price based on labor rates and material cost
- Generates work orders that can be sent directly to your system.
- Real time knowledge of what jobs have been completed
- Create job list for multiple Autobrakes
- Accepts EagleView® property measurement reports

Property measurements reports from EagleView® feature detailed 3D diagrams. EagleView® reports calculate roof length, pitch, and additional features on residential and commercial properties and include a summary page with waste calculations.



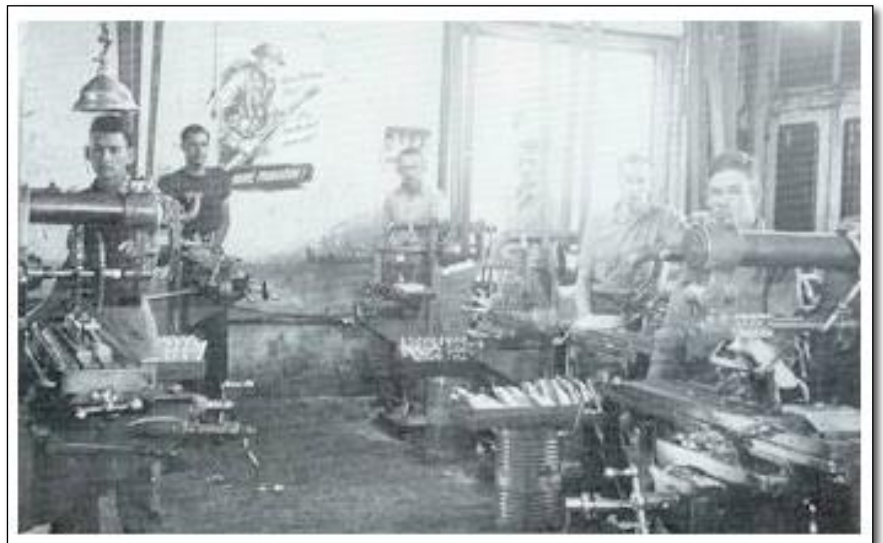
Maintenance and Service

The most important key to any folder design is serviceability. One of the main thoughts that went into engineering the Tennsmith SBS Series was service. Every element and feature had to be easily maintained and serviceable. The SBS, thanks to its intelligent design, monitors itself. The machine alerts the operator if there is a problem. This feature eliminates hidden remote monitoring costs that you will find with competing machines. No other light gauge folder on the market can match the SBS in quality and features. Only the finest bearings, motors, and electrical components are used in the manufacture of an SBS Folder. We are so confident with the design of the SBS Series Folder; the machines are backed by an industry leading Three-Year Factory Warranty.



Tradition

Building machinery has been a Smith family tradition over the past 90 years. Our family has been responsible for the manufacture and design of over 365,000 machine tools. From table saws, drill presses, planers, to hand brakes, shears, and folders our family manufactured all of them here in North America. Everything we manufacture is American made. Tennsmith owns all rights to its technology. We engineer and design everything in house. We do not depend on



overseas factories for product support. We will supply parts and service for your Tennsmith machinery as long as you own it.

USA MADE

AUTOBRAKE	SBS159-16
Bending Capacity (Mild Steel)	16ga / 1,6mm
Bending Capacity (Stainless)	20ga / 1,0mm
Bending Length	159 in / 4040mm
Bending Bars	1 " (25mm) bending bar x 159" (4040mm) 7/16" (11mm) bending bar x 159" (4040mm)
Crowning of the Folding Beam	7-Point 0"- 0.030" Adjustment
Folding Beam Adjustment	1 in / 25mm
Clamping Beam Opening Height	7 in / 178mm
Clamping Beam Tooling	30 Degrees
Back gauge Depth (SBS159-40)	41 in / 1041mm
Back gauge Depth (SBS159-60)	61 in / 1550mm
Working Height	34 in / 864mm
Back Gauge Motor	3/4 hp
Clamping Beam Motor	2 hp / 1.5 kw
Bending Beam Motor	2 + 2hp / 3 kw
Machine Dimensions	210 x 96 x 72 in / 5334 x 2438 x 1829 mm
Machine Weight	9,220 lbs.
Shipping Weight	9,985 lbs.
Speeds	SBS159-16
Clamping Beam Speed	2.5" per second
Folding Beam Speed	80 degrees per second
Back gauge Speed (0.375" to 41")	5 seconds

Machines are standard with 220 Volt or 440 Volt 3 Phase 60 Hz electric

*An R3 rotary type phase converter is required when connecting to single phase power.

All Prices net F.O.B. McMinnville, TN 37110

All Prices Subject to Change without Notice



Model	Description	Price	Shipping Weight
Autobrake 159-16			
SBS159-16 - 40	SBS159-16 with SYNERGY Control and 41" back gauge		9,500
SBS159-16 - 60	SBS159-16 with SYNERGY Control and 61" back gauge		9,900
SBS Wired for CSA Canadian Electrical Standard, add			

Options and Accessories SBS Series

Model	Catalog No.	Description	Price	Shipping Weight
Tooling 159-16				
	786120607	159-16 Folding Beam Rail (0.250" /6mm)		
	783020067	159-16 - 20 Degree Upper Clamping Beam Rail		
	783020067	159-16 - 45 Degree Upper Clamping Beam Rail		
	783990004	159-16 Radius Upper Clamping Beam Rail 1/16 th "		

Safety Enhancements 159-16

	286940040	13' Light Curtain System		
	260009714	13' Laser Scanner		
	260009669	Second Operator Foot Pedal		
	660092132	Rear Operator Foot Pedal		

Training & Service

	899011016	159-16 Installation & Training 2 days US Pacific Time Zone		
	899021016	159-16 Install & Training 2 days US East/Mountain Time Zone		
	899031016	159-16 Installation & Training 2 days Continental US Central Time Zone		
	899041016	159-16 Installation & Training 2 Days Canada		
	899051016	159-16 Installation & Training 2 days Alaska & Hawaii		



	660193237	18.5-Inch Touch Screen Monitor Upgrade		
	660000642	Konstruk Offline Programming 1 Seat		
	660000640	Konnect Software Package		
	660000641	Konstruk Mobile Software Package		

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1-800-729-0759
<https://www.redrivermachinery.com/>