




TENNSMITH 

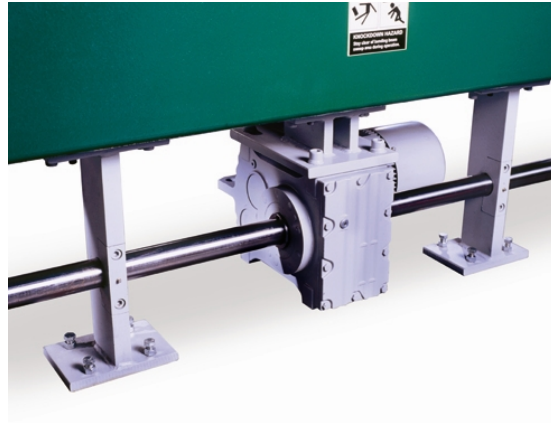


SBS 126-14 Folding System

TENNSMITH  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) 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 90 degrees per second. The design also eliminates torque build up commonly found on competitor's chain drive folders. 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 system. The SBS folder also includes three point manual crowning of the folding beam. Adjustable crowning ensures the SBS the best radius profile bending possible.



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 benefit is greater hemming capacity for the SBS126-14.



Rear view of the SBS 126-14 folding system



The back gauge for the SBS Series features a twin ball screw design. The system is fast extremely accurate and incorporates 12 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.

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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.



The SBS126-14 comes standard with our 3-Point 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 of 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.



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TENNSMITH SBS control is very user friendly. The control is icon based and features a quick reference help button to assist the operator through the programming of profiles. Offline programming is standard with the SBS. Offline programming allows you to remotely programming jobs while the operator is busy producing parts. This is an advanced control incorporating cutting edge machine tool technology.

SBS control features:

- 17 Inch Touch Screen Monitor
- Graphical Programming of Profiles
- Over 300 Standard Profiles (Included)
- Unlimited Program Storage
- Search Function of the SBS Library for Easy Profile Selection
- Unlimited Folder Creation for Saving Individual Jobs and Customer Profiles
- Bend Simulation of the Part
- Hemming Macros for Open, Closed, Teardrop, and No-Bend Inserts
- Radius Macro for Complex bending of different Radii (Cornice Work etc.)
- Automatic Calculation of Radius Bends
- Selection between Bump and Wing Bending of Radius Profiles
- Parts Counter
- Inch/Metric Conversions
- Automatic Blank Calculation
- Independent Bend Compensation
- Material Spring Back Compensation Tables
- Independent Profile Notes
- Automatic Easy to follow Material Handling Instruction Icons (Flip, Rotate etc.)
- Easy Edit of Part Profiles
- USB Memory Drive for both the PLC and PC
- Microsoft Windows XP Platform using Microsoft.Net Framework
- Offline Programming (Included) for Remote Programming of the Machine

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.

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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 80 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.



A Family Tradition Since 1928

A video of the SBS 12614 is available for viewing at:
http://www.tennsmith.com/sbs_folding_system.html

The SBS12614-40 Bending System can be purchase with the LMS126-14F series Shear at a discounted price "Performance Package" configuration. The Performance Package includes the standard configured SBS126-14-40 and the LMS126-14F performance shear. Please contact Tennsmith for more information.

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SBS FOLDING SERIES	SBS126-14
Bending Capacity (Mild Steel)	14ga / 2,0mm
Bending Capacity (Stainless)	16ga / 1,6mm
Bending Length	126 in / 3200mm
Bending Bars	1 in / 25mm and 7/16 / 11mm
Back gauge Depth (Standard)	41 in / 1041 mm
Back gauge Depth (Optional)	61 in / 1550 mm
Clamping Beam Opening Height	7 in / 178mm
Clamping Beam Tooling	30 Degrees
Folding Beam Adjustment	1 in / 25mm
Crowning of the Folding Beam	3-Point 0"-0.030" Adjustment
Working Height	34 in / 864mm
Machine Length	180 in / 4572mm
Machine Width	96 in / 203mm
Machine Height	72 in / 1829mm
Machine Weight	9,020 lbs
Shipping Weight	9,885 lbs.
Back Gauge Motor	¾ hp
Clamping Beam Motor	2 hp
Bending Beam Motor	2 + 2 hp
Hem, semi-closed or teardrop	20 gauge at ½" min flange
Speeds	SBS126-14
Clamping Beam Speed	2.5" per second
Folding Beam Speed	90 deg per second
Back gauge Speed (0.375" to 41")	5 seconds

SBS126-14-40 (Base Machine) with LMS126-14 Shear

41-Inch CNC Back-gauge 30 Degree Clamping Rail
 Bending Bars 1-Inch, 7/16 Included. The LMS126-14F shear with
 front return sheet support system with 2x back-gauge with DRO

Machines are standard with 220 Volt or 440 Volt 3 Phase 60 Hz electric
Single Phase 220 volt is optional

Price Includes training at customer's facility

Terms: 25% Deposit with order
 Balance upon Shipment

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SBS Series Options and Accessories:

Control Options:

Off-line Programming

Included

Back gauge Options:

61-Inch CNC Back gauge with 12 solid fingers

Tooling Options:

SBS126-45 Degree Upper Rail

SBS126-30 Degree Upper Rail (one included with machine price)

SBS126-20 Degree Upper Rail

SBS12614 Folding Beam Rail 1-Inch

SBS12614 Folding Beam Rail 7/16-Inch

Please Specify Radius when Ordering

Special Bending Bars

Longer Back gauge Travels

Please inquire for optional features not listed

All pricing FOB McMinnville, TN 37110 USA

Three-Year Factory Warranty on all Tennsmith Products



Prices are quoted F.O.B. our factory, McMinnville Tennessee and are subject to change without notice. We constantly strive to improve the quality, performance and value of our machinery and machinery specification may be amended at any time without notice.

Tennsmith machinery is U.S. made and is backed by a 3-year limited warranty.




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Model LMS126-14F

TENNSMITH  LMS Series mechanical shears utilize a simple low maintenance design, coupled with an array of standard features for an attractive combination of high value and solid performance.

The LMS126-14 incorporates the unique 2x back gauge system. This allows the operator to move the backstop from 0 to 30 inches in approximately 2-3 seconds with only 2.5 rotations of the handle. The LMS 2x back-gauge comes standard with scale and pointer. The digital readout is optional on shear, but included in SBS/LMS packages. The 2x digital readout increments are 0.001"

The LMS Series shears are standard with four-edge, high carbon, high chrome top and bottom blades, independent, self-leveling hold down bar with neoprene insert, single, continuous and jog stroke cycles, motor reverse switch, precision-machined table with hand well, dual inch/metric inlaid bed scales and non-metallic gibs.

The LMS126-14 will handle 14-gauge mild steel, 20-gauge stainless up to 127 inches in cutting length. To enhance productivity, optional equipment available for the machine includes: ten-foot squaring arm, t-slotted front support arms, t-slotted table with inlaid inch/metric scales, light beam and protractor attachments. Please contact Tennsmith for a complete listing of optional equipment.



LMS126-14F Rear View

TENNSMITH LMS126-14 comes standard with an air operated sheet support system. This system is available in two styles: System-R drops the support material to the rear of the machine; System-F returns the supported material to the front of the machine via a front return chute.

The LMS series shears are available only in a "Performance Package" configuration. The Performance Package includes: a Five Foot Squaring Arm, a pair of Front Support Arms, and Air Operated Sheet Support System. Performance "R" system is for rear return, Performance "F" system is for front return. A moveable Material Cart is available for both Front and Rear Return machines. Please call for details.



LMS126-14 Specifications

Maximum Shearing Capacity, Mild Steel Mild Steel Rated Materials at 80,000 Tensile / 44,000 Yield	14 gauge/2,0mm
Maximum Shearing Capacity, Stainless Steel Stainless Shear Rated Materials at 90,000 Tensile / 55,000 Yield	20 gauge/1,0mm
Maximum Cutting Length	127 in/3225mm
Back gauge Range	30 in/762mm
Strokes per Minute	35
Number of Hold downs	Solid Bar with Insert
Motor-230/460v, 3-phase, 60Hz	5 hp
Overall Dimensions, Less Gauges, LxWxH Work height	145 x 27 x 55-1/2 in 32 in
Floor Space, Gauges in Position	145 x 60 x 55-1/2 in
Shipping Weight	6200 lbs

LMS126-14F Performance "F" (DRO with package)

LMS126-14FC Performance "F" with Material Cart in rear
in front

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

The LMS Series Performance Packages include: Five Foot Squaring Arm, Two Front Support Arms and Air Operated Sheet Support System. "R" Rear Drop Support "F" Front Return Support System "C" with Material Cart



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LMS Series Options and Accessories:

Squaring Arm, Five Foot with Dual Inlaid Inch/Metric Scale

Squaring Arm, Ten Foot with Dual Inlaid Inch/Metric Scale

Additional Flip-up Stops for Squaring Arm (each)

Front Support Arms, Pair

T-Slotted Table with Two Front Support Arms with Inlaid Inch/Metric Scales

Additional Flip-up Stops for T-Slotted Support Arms and Table (each)

Power Go-To Back gauge 30 Inch Travel

Protractor Attachment

Digital Readout for 2x Back gauge System

Stroke Counter for LMS Series (Electro-Mechanical)

Increased Cutting Speeds (Please consult factory)

Replacement Blades (Four-Edge Top and Bottom set)

Please inquire for optional features not listed

McMinnville, TN 37110 USA

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