



SignGraver

Instructions & Parts

SM96

SM98

SM99

K005

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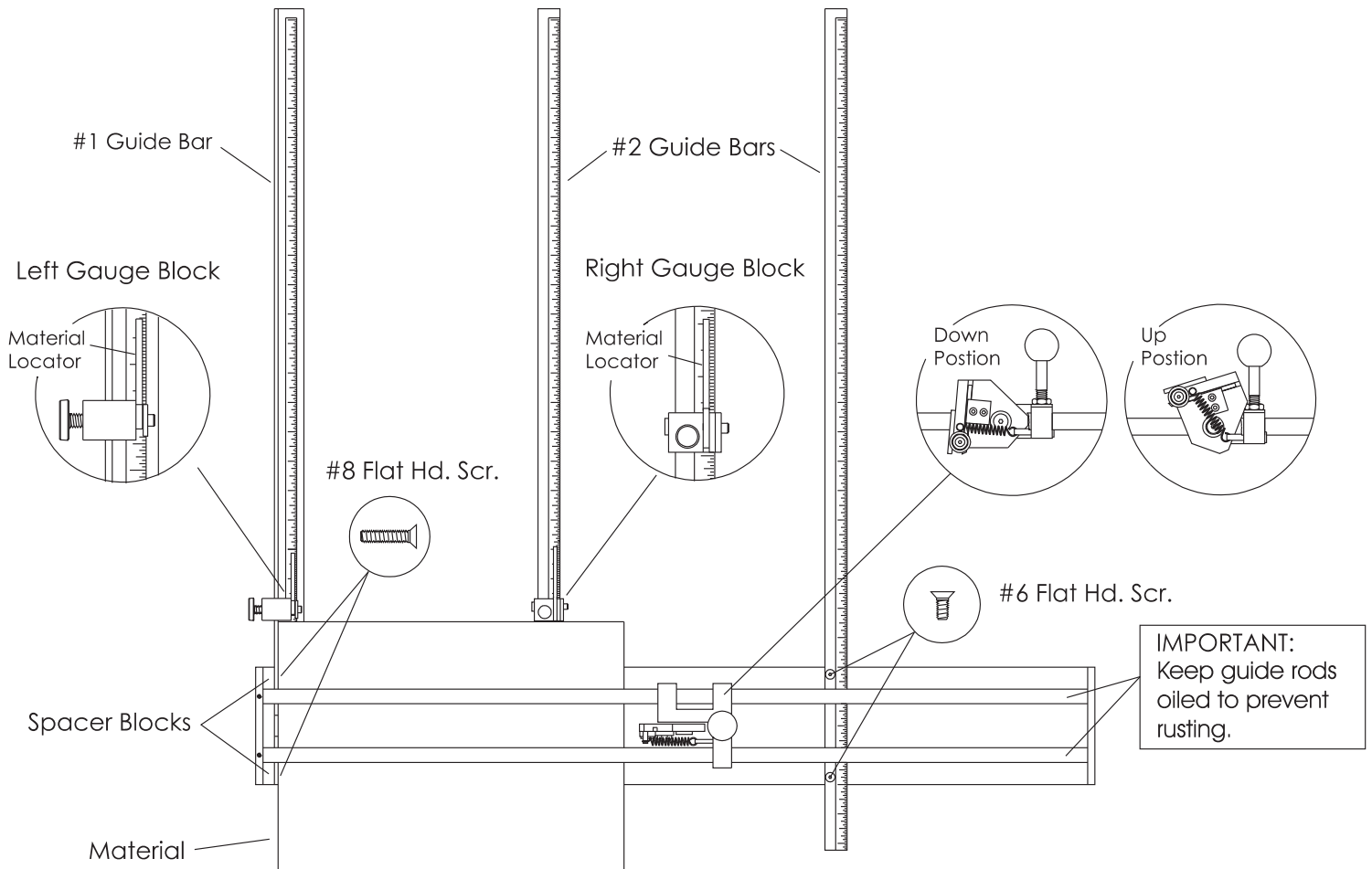
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Bevelers-&-Other-Machines-June2016



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SCOTT ACCU-SCORE[®] SM96 (SM66 Metric)



PURPOSE:

- The SM96 (SM66) SCOTT ACCU-SCORE permits rapid and accurate sizing of sign blanks from sheet material up to 3/32" thick.

It offers the flexibility of making any size sign blank when you need it.

It eliminates carrying inventories of custom sized sign blanks.

A properly fabricated sign includes a beveled edge. A beveled edge aesthetically improves the sign by exposing the core color around the edge of the sign. The SM98 (SM68) or SM99 (SM69) Bevelers are to be used with the SM96 (SM66) SCOTT ACCU-SCORE for proper sign fabrication.

STEP 1

ASSEMBLY INSTRUCTIONS:

- Assemble the #1 Guide Bar with two Spacer Blocks, and two #8 Flat Head Screws.
- Assemble the two #2 Guide Bars with the four #6 Flat Head Screws.

STEP 2

OPERATING PROCEDURE:

- Move the Left and Right Gauge Blocks to the desired cut length on the scales. Use the Material Locators if the cut length is less than 2 inches.
- Move the cutter to the far right. When moving the cutter make sure it is in the up position.
- Hold the material against the #1 Guide Bar and the gauge blocks or material locators.
- Position the cutter so it stops against the right edge of the material. The wheel should be setting on the material.
- Hold the knob and push the cutter from right to left. No downward pressure is necessary. Just apply enough pressure so the wheel always rides on the material.
- Lift the cutter and remove the material.

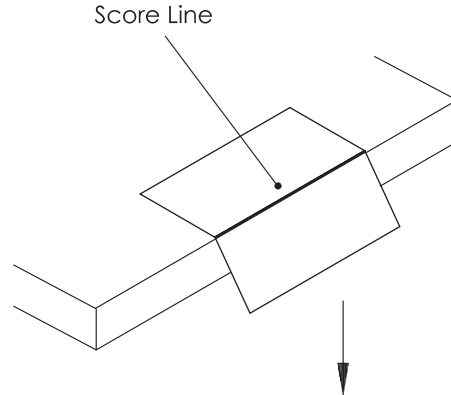
NOTE: If the masking lifts from the material when the cutter first starts to score, it may be necessary to cut the masking first by making a short cut from left to right at the starting edge.



STEP 3
COMPLETING CUT:

- Place the material on a table so the score line is along the table's edge, facing up. Starting at one end, break the material along the score by bending it, in the direction which opens the score.

NOTE: The SM96 SCOTT ACCU-SCORE is not suitable for cutting Phenolics

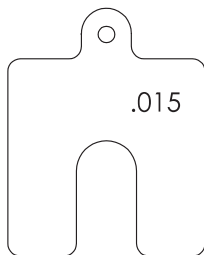
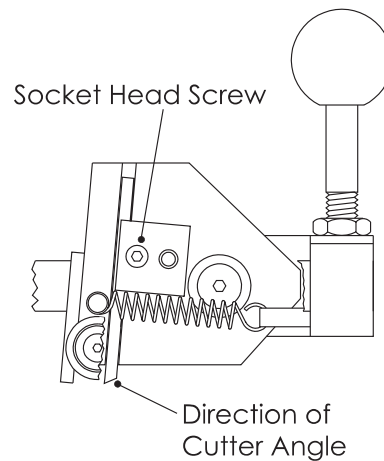


STEP 4

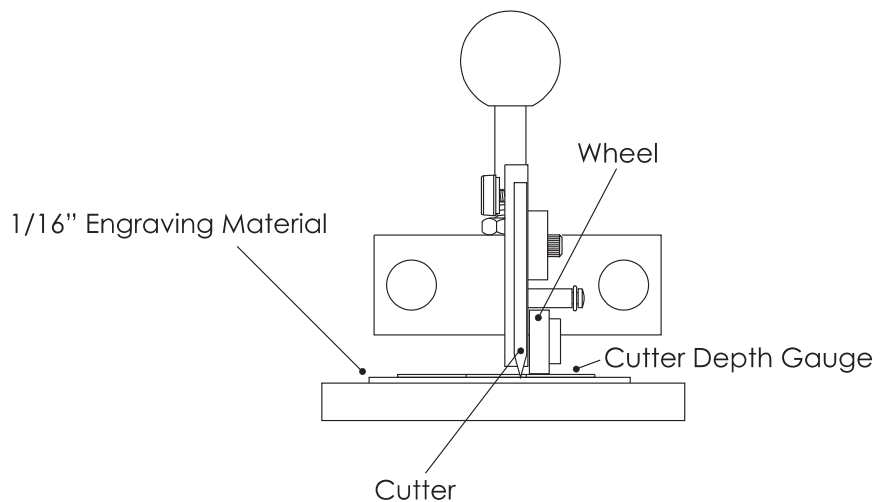
NOTE: The cutter depth is set at the factory.
 This step is required only when changing the cutter.

SET CUTTER DEPTH:

- With the Cutter Holder in the up position, loosen the Socket Head Screw and remove the cutter.
- Use the Cutter Depth Gauge to set the cutter depth. Position the gauge on a piece of 1/16" engraving material. Lower the Cutter Holder so the wheel rests on the gauge.
- Insert the Cutter until it rests on the 1/16" engraving material. Make sure the direction of the cutter angle is correct.
- Tighten the Socket Head Screw.



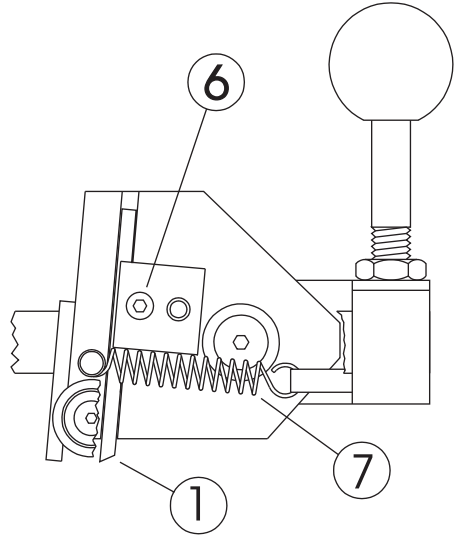
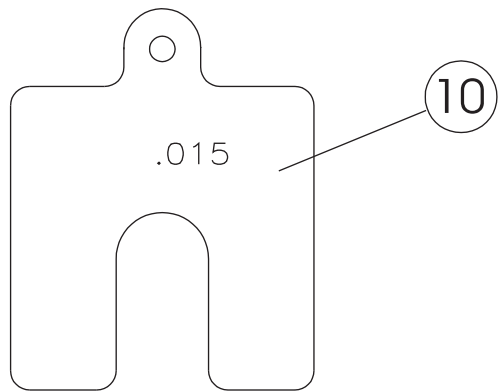
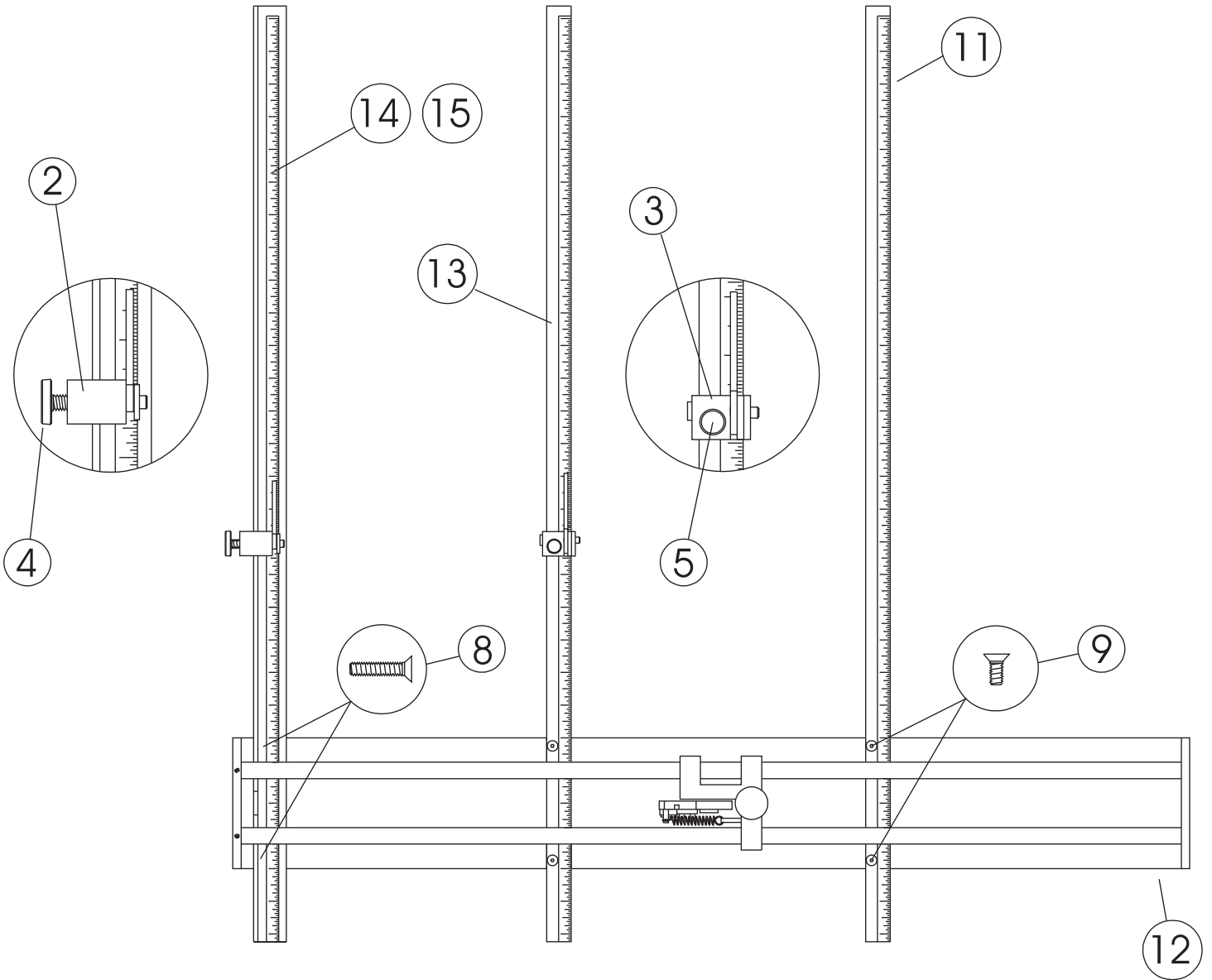
Cutter Gauge Block





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SCOTT ACCU-SCORE[®] SM96 (SM66 Metric)



SCOTT ACCU-SCORE®
SM96 (SM66 Metric)
SPARE PARTS - LIST PRICE
Minimum Order \$25.00

<u>CATALOG NO.</u>	<u>DESCRIPTION</u>	<u>PRICE</u>
1. HS10	Cutter	\$ 37.90
2. K09601	Left Gauge Block Assembly	45.70
3. K09602	Right Gauge Block Assembly	45.70
4. K09603	Left Gauge Block Thumb Screw	1.60
5. K09604	Right Gauge Block Thumb Screw	1.90
6. K09605	Cutter Retainer Socket Head Screw #6-32 x 3/8"	.90
7. K09606	Spring	3.80
8. K09607	#1 Guide Bar Phillips Flat Head Screw #8-32 x 3/4"	.90
9. K09608	#2 Guide Bar Phillips Flat Head Screw #6-32 x 3/8"	.90
10. K09609	Cutter Depth Gauge	3.20
11. K09610	Rubber Feet, 3/8" diameter	1.06
12. K98014	Rubber Feet, 1/2" diameter	1.10
13. K09611	#2 Guide Bar	15.30
14. K09612	Inch Scale (3/machine)	6.70
15. K09613	Metric Scale (3/machine)	6.70
16. K09614	7/64" Hex Wrench	3.90

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Due to continuous improvements to product features, specifications and prices may change without notice.



OPERATING INSTRUCTIONS

SM98A (SM68A Export) Material Beveler

PURPOSE:

The Beveler is used to bevel the edges of sign blanks.
 The 45 degree beveled edge exposes the core color
 around the edge which attractively "frames" the sign.

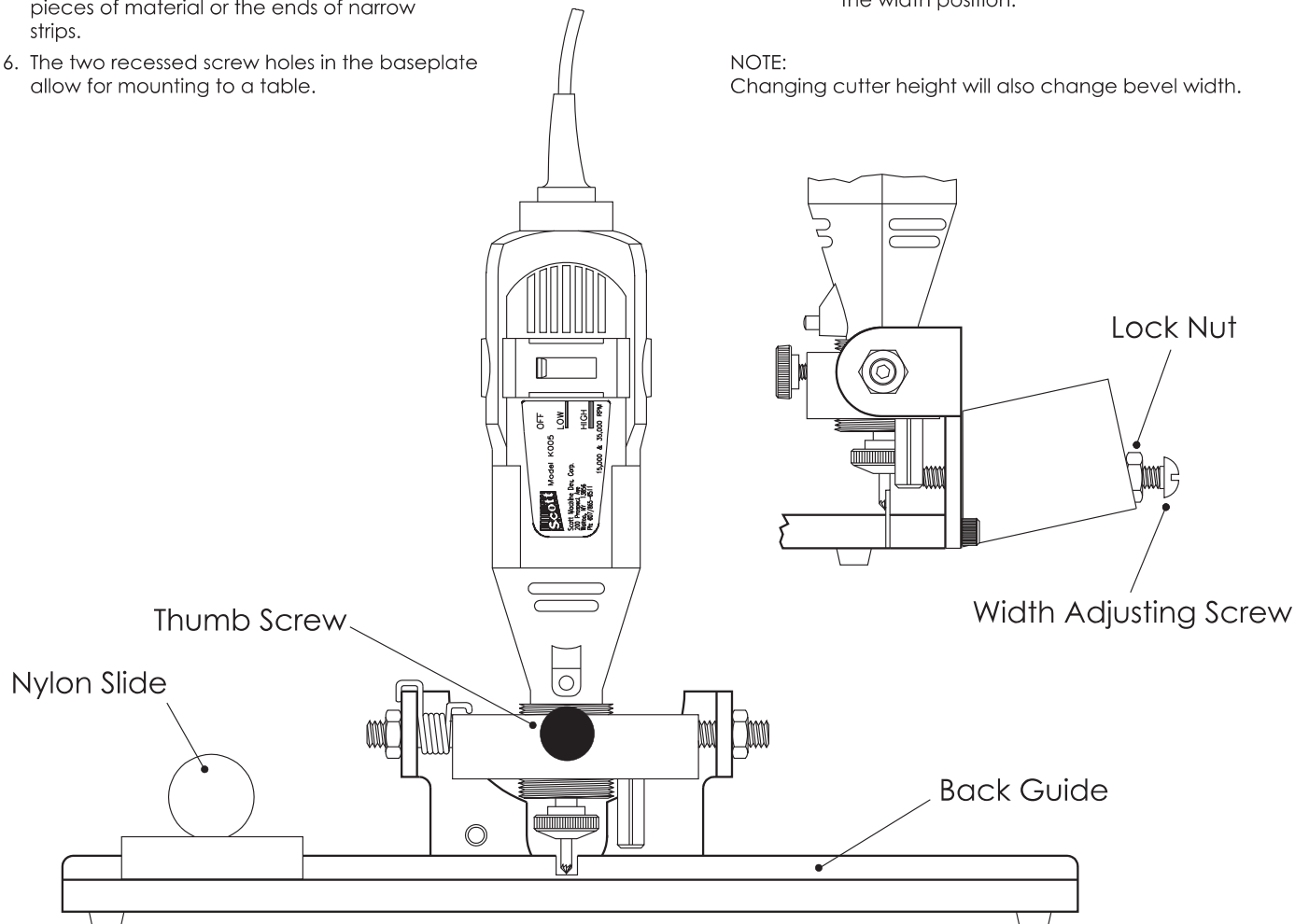
OPERATING PROCEDURE

1. The SM98A Beveler comes factory assembled ready to operate.
2. Feed material from left to right.
3. Hold material down firmly and against back guide while beveling.
4. Best results are obtained on large pieces of material with hand over hand feed so the material does not come to a complete stop.
5. The nylon slide is used for beveling small pieces of material or the ends of narrow strips.
6. The two recessed screw holes in the baseplate allow for mounting to a table.

CUTTER ADJUSTMENT

1. Height: The cutter height is adjusted by rotating the motor, (clockwise) moves the motor down). The thumb screw locks the motor at the desired height.
2. Width: Position the cutter to give the desired width using the width adjusting screw on the back of the beveler. The lock nut locks the width position.

NOTE:
 Changing cutter height will also change bevel width.

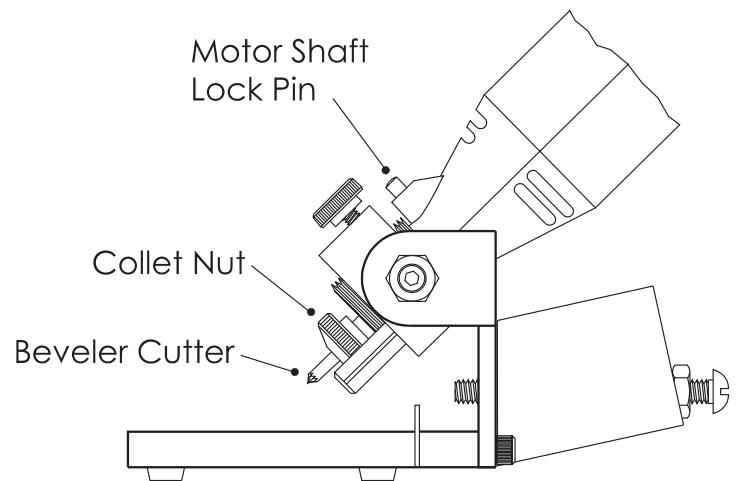




CUTTER INSTALLATION:

1. Use Scott standard beveler cutter, Catalog #BC45.
2. Always raise the motor about three turns before changing the cutter. This helps prevent the newly installed cutter from hitting the base plate as the motor returns to the vertical position.
3. Press and hold the Motor Shaft Lock Pin while turning the Collet Nut. The motor shaft will lock. Continue holding the locking pin, loosen the Collet Nut and remove the old cutter.
4. Install the new cutter and tighten the collet nut. The cutter should extend about 3/8" below the collet nut.
5. Adjust the cutter height and width as previously explained.

CAUTION: THE CUTTER MAY BE DAMAGED IF IT HITS THE BASE PLATE AS THE MOTOR RETURNS TO A VERTICAL POSITION.

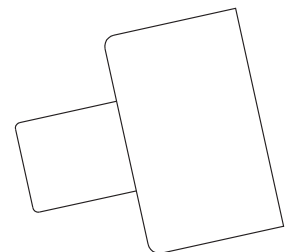


CHIP REMOVAL SYSTEM:

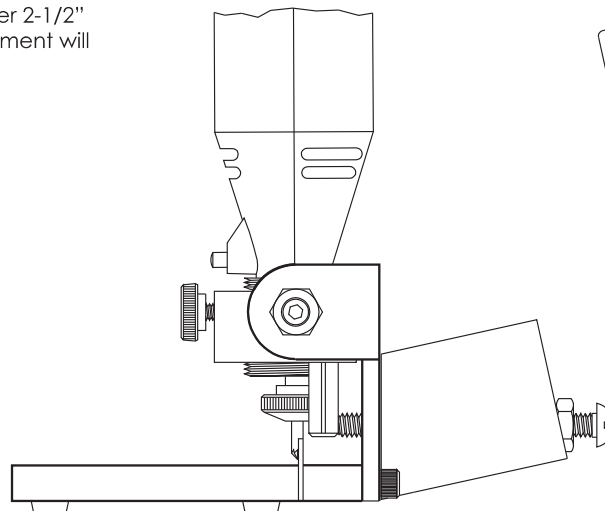
The chip removal system allows you to interface with virtually any shop vac, thereby helping greatly keeping the engraving work area chip free.

The chip removal system accepts a 1-1/4" vacuum hose. If you have a shop vac with a larger 2-1/2" hose, a 2-1/2" to 1-1/4" reduction attachment will be required.

2-1/2" to 1-1/4"
Reduction Attachment



1-1/4" Vacuum Hose



**SM98A (68A EXPORT) MATERIAL BEVELER
SPARE PARTS - LIST PRICE**

Minimum Order \$25.00

<u>CATALOG NO.</u>	<u>DESCRIPTION</u>	<u>PRICE</u>
1. K98002	Nylon Slide Assembly	\$23.60
2. K005	Motor (117 volts)	189.00
3. K007	Power Converter	90.10
4. K040	Collet Nut	10.90
5. BC45	Cutter 45°	24.00
6. K98003	Motor Thumb Scr. Assembly (nylon plug)	3.20
7. K98005	Guide (wear) Strip	8.70
8. K98006	Support Bracket	35.60
9. K98007	Motor Pivot Block	34.60
10. K98008	Motor Pivot Screw, 3/4" long	1.50
11. K98013	Motor Pivot Screw, 1" long	1.50
12. K98009	Motor Pivot Screw Lock Nuts (2/machine)	1.10
13. K98019	Vacuum Attachment Mounting Screw 1/4-20 x 2	1.50
14. K98020	Vacuum Attachment Mounting Screw 1/4-20 x 2-3/4	1.50
15. K98012	Vacuum Attachment Lock Nut	1.20
16. K98014	Rubber Pad (4/machine)	1.10
17. K98015	Spacer Bar	10.30
18. K98017	Support Bracket Mounting Screw #10-32 x 1-1/4 (2/machine)	1.20
19. K98018	Guide Strip Mounting Screw #10-32 x 1/2 (2/machine)	1.20
20. K98011	Spring	8.80
21. K98021	Adapter	15.40
22. K98016	Baseplate w/o groove	110.10

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OPERATING INSTRUCTIONS

SM99A (SM69A Export) Material Beveler

PURPOSE:

The Beveler is used to bevel the edges of sign blanks.
The 45 degree beveled edge exposes the core color
around the edge which attractively "frames" the sign.

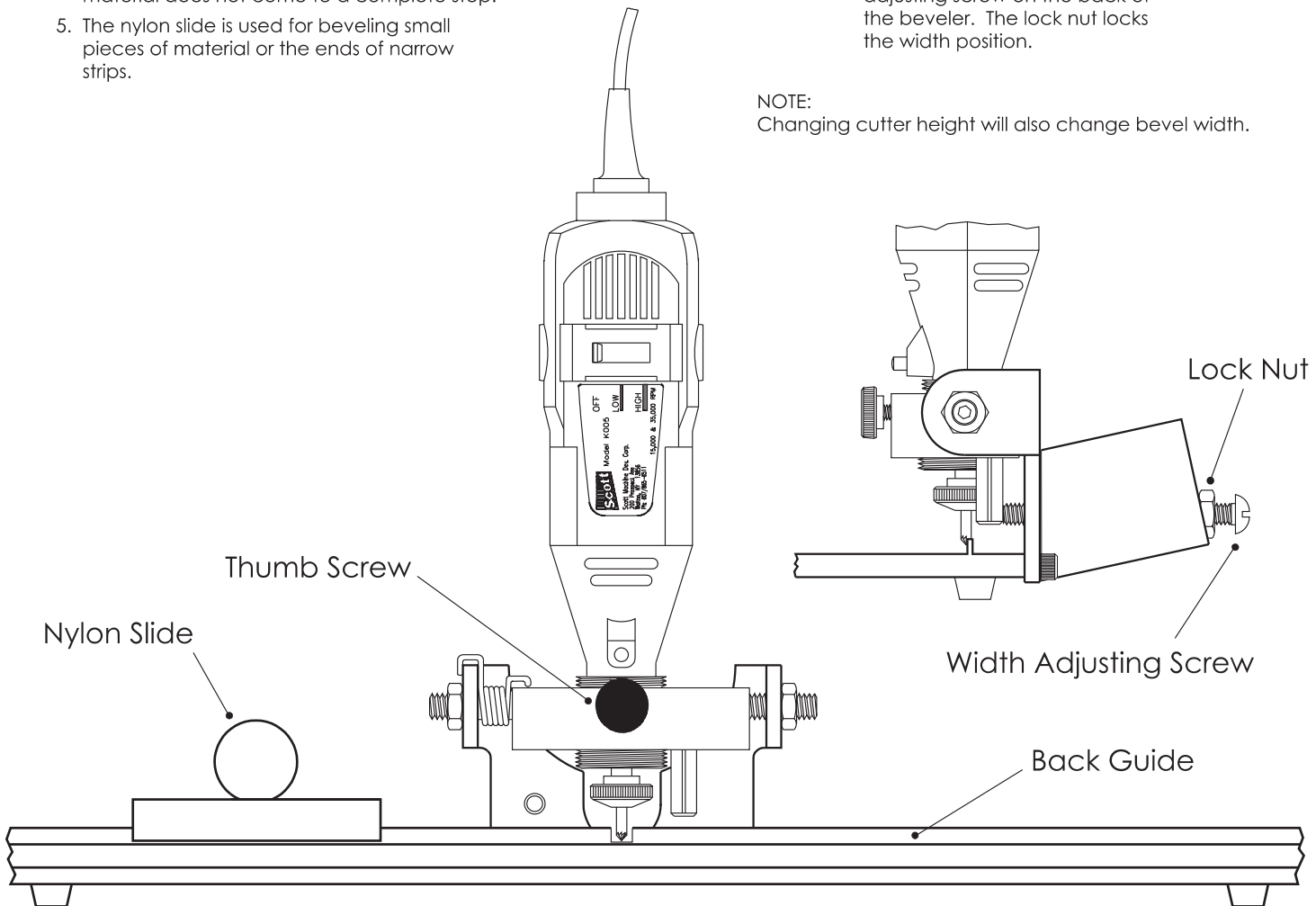
OPERATING PROCEDURE

1. The SM99A Beveler comes factory assembled ready to operate.
2. Feed material from left to right.
3. Hold material down firmly and against back guide while beveling.
4. Best results are obtained on large pieces of material with hand over hand feed so the material does not come to a complete stop.
5. The nylon slide is used for beveling small pieces of material or the ends of narrow strips.

CUTTER ADJUSTMENT

1. Height: The cutter height is adjusted by rotating the motor, (clockwise) moves the motor down). The thumb screw locks the motor at the desired height.
2. Width: Position the cutter to give the desired width using the width adjusting screw on the back of the beveler. The lock nut locks the width position.

NOTE:
Changing cutter height will also change bevel width.



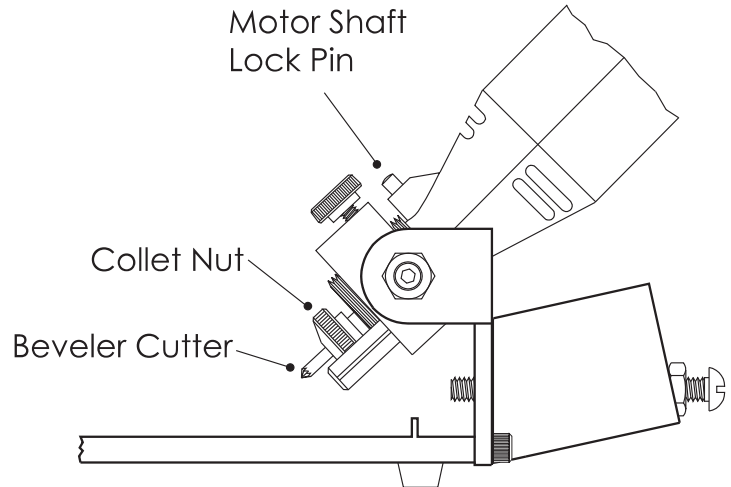


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CUTTER INSTALLATION:

1. Use Scott standard beveler cutter, Catalog #BC45.
2. Always raise the motor about three turns before changing the cutter. This helps prevent the newly installed cutter from hitting the base plate as the motor returns to the vertical position.
3. Press and hold the Motor Shaft Lock Pin while turning the Collet Nut. The motor shaft will lock. Continue holding the locking pin, loosen the Collet Nut and remove the old cutter.
4. Install the new cutter and tighten the collet nut. The cutter should extend about 3/8" below the collet nut.
5. Adjust the cutter height and width as previously explained.

CAUTION: THE CUTTER MAY BE DAMAGED IF IT HITS THE BASE PLATE AS THE MOTOR RETURNS TO A VERTICAL POSITION.



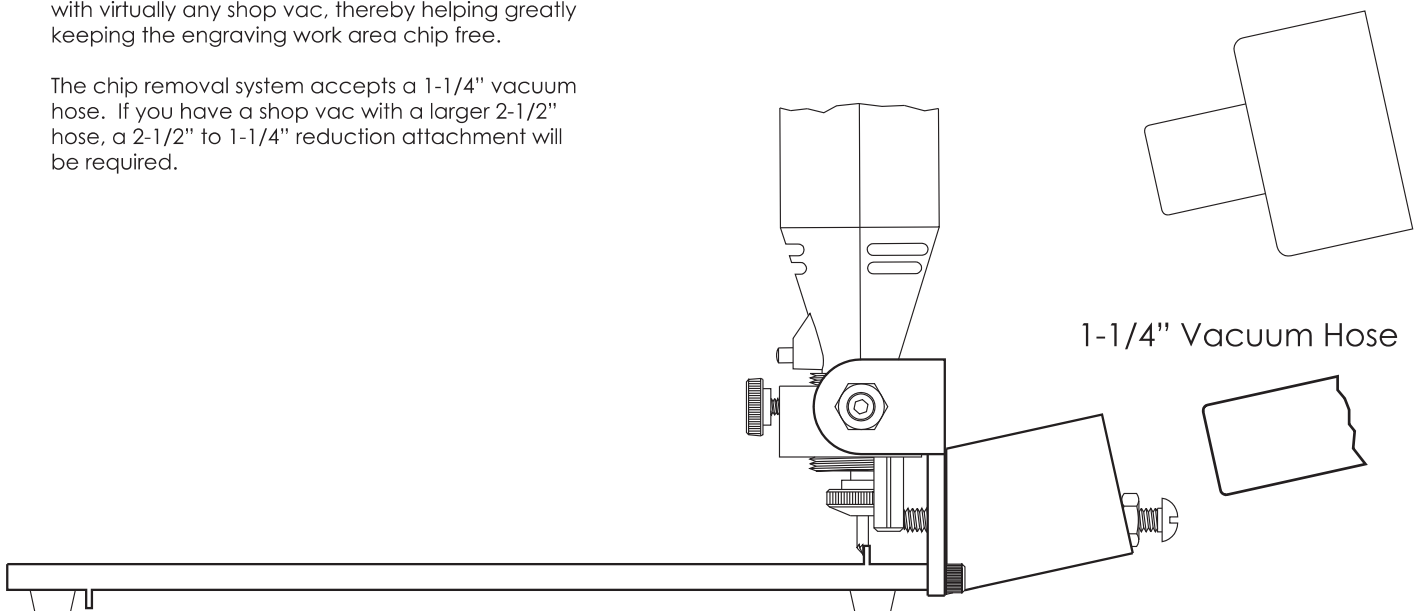
CHIP REMOVAL SYSTEM:

The chip removal system allows you to interface with virtually any shop vac, thereby helping greatly keeping the engraving work area chip free.

The chip removal system accepts a 1-1/4" vacuum hose. If you have a shop vac with a larger 2-1/2" hose, a 2-1/2" to 1-1/4" reduction attachment will be required.

2-1/2" to 1-1/4"
Reduction Attachment

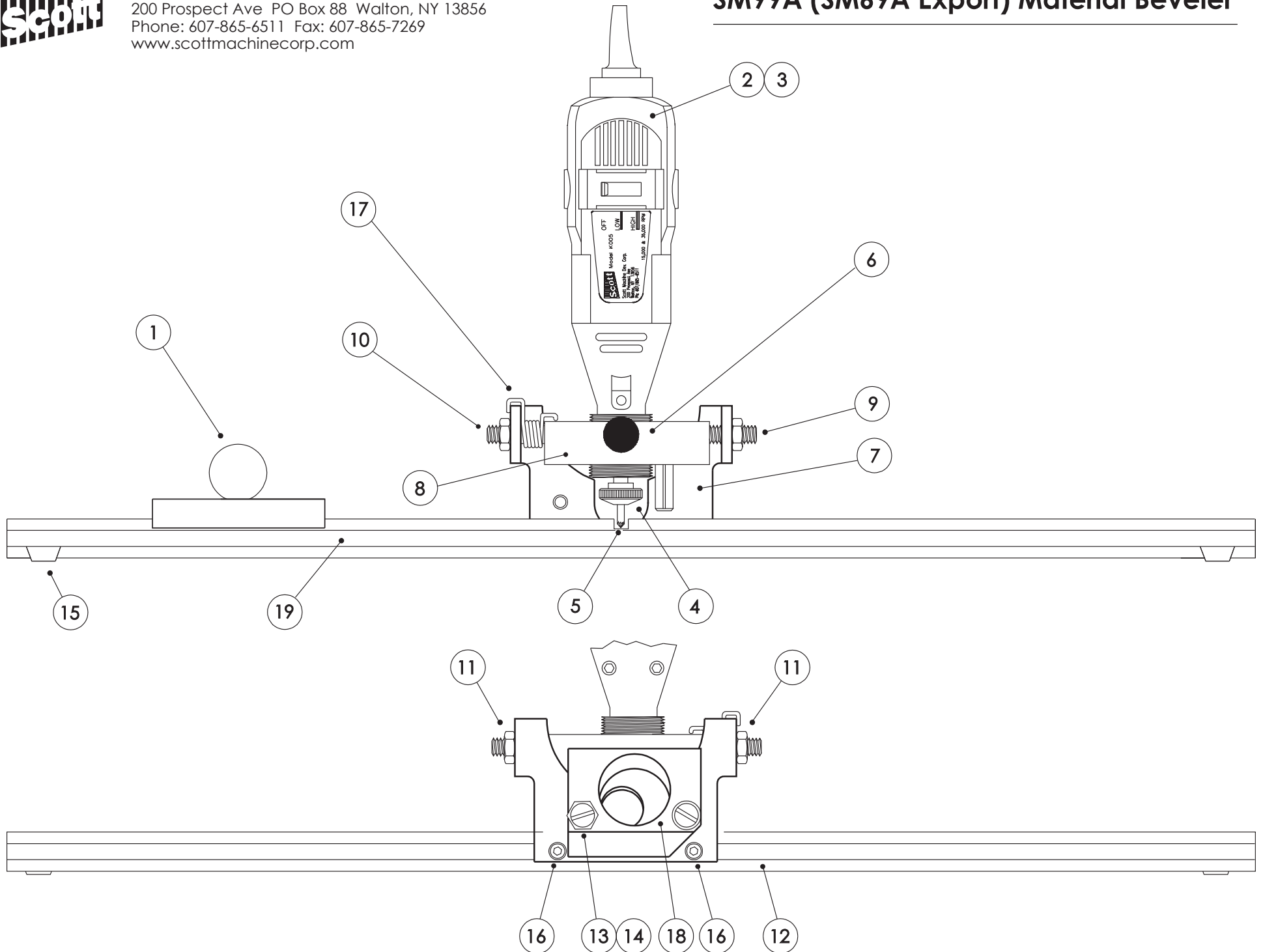
1-1/4" Vacuum Hose





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SM99A (SM69A Export) Material Beveler



**SM99A (69A EXPORT) LARGE MATERIAL BEVELER
SPARE PARTS - LIST PRICE**

Minimum Order \$25.00

<u>CATALOG NO.</u>	<u>DESCRIPTION</u>	<u>PRICE</u>
1. K99001	Nylon Slide Assembly	\$ 28.20
2. K005	Motor (117 volts)	189.00
3. K007	Power Converter	90.10
4. K040	Collet Nut	10.90
5. BC45	Cutter 45°	24.00
6. K98003	Motor Thumb Scr. Assembly (nylon plug)	3.20
7. K98006	Support Bracket	35.60
8. K98007	Motor Pivot Block	34.60
9. K98008	Motor Pivot Screw, 3/4" long	1.50
10. K98013	Motor Pivot Screw, 1" long	1.50
11. K98009	Motor Pivot Screw Lock Nuts (2/machine)	1.10
12. K98019	Vacuum Attachment Mounting Screw 1/4-20 x 2	1.50
13. K98020	Vacuum Attachment Mounting Screw 1/4-20 x 2-3/4	1.50
14. K98012	Vacuum Attachment Lock Nut	1.20
15. K99006	Rubber Pad (4/machine)	1.30
16. K012	Support Bracket Mounting Screw #10-32 x 5/8" (2/machine)	1.60
17. K98011	Spring	8.80
18. K98021	Adaptor	15.40
19. K99002	Baseplate	207.40

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K005 Engraver & Beveler Motor

INSTALLING CUTTERS

Always unplug Motor before changing cutter

- ① Remove Motor Mounted Depth Control
- ② Press the Shaft Lock Button and loosen the Collet Nut.
- ③ Remove the cutter and replace with the one of your choice
- ④ Tighten Collet Nut just enough so cutter can still move freely. Replace the Motor Mounted Depth Control on the motor until it locks against the Motor Link .
- ⑤ The Cutter tip should be protruding from the Motor Mounted Depth Control. Press a flat piece of engraving material against the cutter tip so it is flush with the end of the Motor Mounted Depth Control.
- ⑥ Press the Shaft Lock Button and tighten the Collet Nut.
- ⑦ Loosen the Motor Clamping Screw and turn the motor clockwise 1/8 of a turn. Tighten the Motor Clamping Screw. Tighten the Motor Mounted Depth Control. The tip of the cutter should be exposed slightly. The amount it is exposed will be the depth of the cut. Always start with a shallow cut, then increase to the required depth.

MOTOR SPEED SWITCH

Low - Use for Engraving
 High - Use for Beveling

