

AUSTRALIAN OWNED

# SWARTS TOOLS

PREMIUM ELECTRIC  
CHAINSAW SHARPENER

INSTRUCTION BOOKLET

PLEASE READ CARE AND SAFETY INSTRUCTIONS BEFORE USE



**SWB1705**

# TABLE OF CONTENTS

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Version 2.0

<b>1. WARRANTY</b>	<b>01</b>
<b>2. SPECIFICATIONS</b>	<b>01</b>
<b>3. CONTENTS OF BOX</b>	<b>01</b>
<b>4. SAFETY INSTRUCTIONS</b>	<b>02</b>
<b>5. PARTS DIAGRAM</b>	<b>04</b>
<b>6. SETTING UP THE CHAINSAW SHARPENER</b>	<b>05</b>
<b>7. SETTING THE GRINDING ANGLE</b>	<b>06</b>
<b>8. SETTING THE VICE ANGLE</b>	<b>06</b>
<b>10. SETTING THE TILT ANGLE</b>	<b>06</b>
<b>11. SETTING THE BACK TOP</b>	<b>07</b>
<b>12. SETTING THE DEPTH</b>	<b>07</b>
<b>13. SHARPENING THE CHAIN</b>	<b>08</b>
<b>14. DRESSING THE WHEEL</b>	<b>08</b>
<b>15. STANDART CHAIN SIZE CHART</b>	<b>09</b>



The product is warranted to be free from defects in materials and workmanship under normal use and service for a period of 36 months from the date of sale. This warranty covers defective parts and workmanship provided that the product is shipped pre-paid to the seller within 36 months of purchase of goods. This warranty is limited to the repair or replacement (at the manufacturers' discretion) of parts and shipping prepaid to the original dispatch destination. We regret that no liability can be accepted for consequential or special damages of any kind howsoever arising in connection with products supplied by the seller. This warranty is in lieu of all other warranties expressed or implied. No representative is authorised to assume for the seller any other liability in connection with the seller's products.

## SPECIFICATIONS

Item number: SWB1705

Max speed: 3000RPM

Rated voltage: 240V - 50Hz

Cord length: 1.5m

Peak motor input: 350W

Warranty: 3 years

Rated input: 230W

## CONTENTS OF BOX

1 x Premium chainsaw sharpener

4 x Mounting bolts

2 x 145x22.3x3.2mm grinding wheel

1 x Chain template

1 x 145x22.3x4.7mm grinding wheel

1 x Handle

2 x Allen key

Assembly hardware

1 x Dressing stone

1 x Instruction manual



For your own safety, please read and follow all instructions in this manual, before operating this machine. Failure to operate or comply with the instructions in this manual may result in injury or voiding of warranty for this tool.

Do not use any aftermarket accessory for this product, unless approved by Swarts Tools. This product may only be serviced by Swarts Tools or by an authorised repair centre.

1. **KEEP WORK AREA CLEAN.** Cluttered areas invite injuries.
2. **CONSIDER WORK AREA ENVIRONMENT.** Don't use power tools in damp, wet or poorly lit locations. Don't expose your tool to rain. Keep the work area well lit. Don't use tools in the presence of flammable gases or liquids.
3. **KEEP CHILDREN AND BYSTANDERS AWAY.** All children should be kept away from the work area. Don't let them handle machines, tools or extension cords. Visitors can be a distraction and are difficult to protect from injury.
4. **GROUNDING TOOLS** must be plugged into an outlet that itself is properly installed and grounded. Grounding provides a low-resistance path to carry electricity to ground away from the operator, should the tool malfunction electrically. Do not remove the grounding prong from the plug or alter the plug in any way. If in doubt as to whether the outlet is properly grounded according to code, check with a qualified electrician.
5. **GUARD AGAINST ELECTRIC SHOCK.** Prevent body contact with grounded surfaces: pipes, radiators, ranges and refrigerator enclosures. When your body is grounded the risk of electric shock increases. When working wherever "live" electrical wires may be encountered, try to ascertain whether there is a danger of shock. Even so, **DO NOT TOUCH ANY METAL PARTS OF THE TOOL** while using it. Hold the tool only by the plastic grip to prevent electric shock if you contact a live wire.
6. **DO NOT ABUSE THE CORD.** Never carry power tool by the cord or pull on the cord to unplug it. Protect the cord from potential sources of damage: heat, oil and solvents, sharp edges or moving parts. Replace damaged cords immediately.
7. **WHEN WORKING OUTDOORS, USE AN OUTDOOR-RATED EXTENSION CORD.**
8. **DO NOT EXPOSE ELECTRICAL POWER TOOLS TO MOISTURE.** Rain or wet conditions can cause water to enter the tool and lead to electric shock.
9. **ENSURE THE EXTENSION CORD YOU USE IS OF SUFFICIENT GAUGE FOR ITS LENGTH.**
10. **STORE IDLE EQUIPMENT.** Store equipment in a dry area to inhibit rust. Equipment also should be in a high location or locked up to keep out of reach of children
11. **DON'T FORCE THE TOOL.** It will do the job better and more safely at the rate for which it was intended.
12. **USE THE RIGHT TOOL.** Don't force a small tool or attachment to do the work of a larger industrial tool. Don't use a tool for a purpose for which it was not intended.
13. **DRESS PROPERLY.** Don't wear loose clothing or jewellery; they can be caught in moving parts. Protective, non-electrically conductive gloves and non-skid footwear are recommended when working. Wear protective hair covering to contain long hair and keep it from harm.

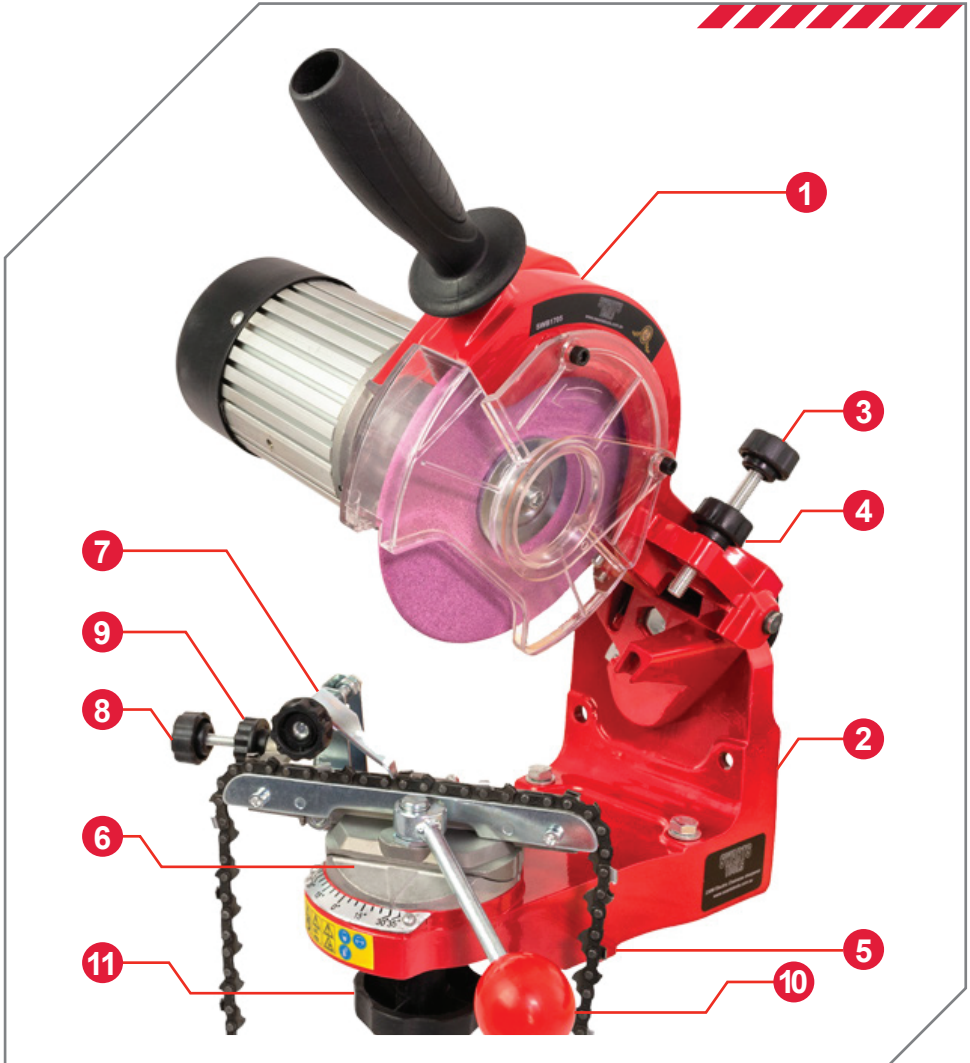




14. **USE EYE PROTECTION.** Use a full-face mask if the work you're doing produces metal filings, dust or wood chips. Goggles are acceptable in other situations. Wear a clean dust mask if the work involves creating a lot of fine or course dust.
15. **SECURE WORK.** Use clamps or a vise to hold the work piece. It's safer than using your hands and it frees both hands to operate the tool.
16. **DON'T OVERREACH.** Keep proper footing and balance at all times. Do not reach over or across machines that are running.
17. **MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. For safe performance keep handles dry, clean and free from oil and grease.
18. **AVOID UNINTENTIONAL STARTING.** Be sure the switch is in the OFF position before plugging in.
19. **ALWAYS CHECK AND MAKE SURE TO REMOVE ANY ADJUSTING KEYS OR WRENCHES** before turning the tool on. Left attached, these parts can fly off a moving part and result in personal injury.
20. **DO NOT USE THE TOOL IF IT CANNOT BE SWITCHED ON OR OFF.** Have your tool repaired before using it.
21. **DISCONNECT THE PLUG FROM MAKING ADJUSTMENTS.** Changing attachments or accessories can be dangerous if the tool could accidentally start.
22. **STAY ALERT.** Watch what you are doing and use common sense. Don't operate any tool when you are tired.
23. **CHECK FOR DAMAGED PARTS.** Before using this tool, any part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function.
24. Check for alignment of moving parts, binding or moving parts, breakage of parts, mountings and other conditions that may affect its operation, Inspect screws and tighten any that are loose. Any part that is damaged should be properly repaired or replaced by an authorised service centre unless otherwise indicated elsewhere in the instruction manual. Have defective switches replaced by an authorised service centre. Don't use the tool if switch does no turn it on and off properly.
25. **REPLACEMENT PARTS.** When servicing, use only identical replacement parts.
26. **SERVICE AND REPAIRS** should be made by qualified repair technicians at an authorised repair centre.
27. Improperly tools could cause serious shock or injury.
28. Make sure the grinding wheel is securely mounted as described in the assembly instructions before connecting the tool to a power supply. Do not tightened excessively, since this can cause cracks.
29. Check wheel for fissures and cracks and test for normal operation prior to use.
30. Only use grinding wheels recommended by Swarts Tools.
31. Always ease the abrasive wheel against the work piece when starting to grind. A harsh impact can break the wheel.
32. Always press the trigger switch and allow the grinding wheel to reach full speed before commencing work.



- 1. TOP MOTOR SECTION
- 2. BASE
- 3. DEPTH STOP ADJUSTMENT KNOB
- 4. LOCKING NUT
- 5. MOUNTING NOTCHES
- 6. VICE SECTION
- 7. CHAIN BACK STOP
- 8. REAR BACKSTOP ADJUSTMENT SCREW
- 9. BACKSTOP ADJUSTMENT LOCKING KNOB
- 10. CHAIN VICE LOCKING LEVER
- 11. VICE LOCKING KNOB





**ALWAYS CHECK YOUR GRINDING WHEELS PRIOR TO USE:**

**CHECK FOR CRACKS, DEBRIS OR CHIPS. DO NOT USE THEM IF THEY APPEAR THIS WAY!**

## MOUNTING & ASSEMBLY

It is important to ensure this tool is securely mounted to a sturdy bench or upright post, using the bolts provided. There is a notch in the bottom of the base to show you how far forward to mount this tool onto your bench.

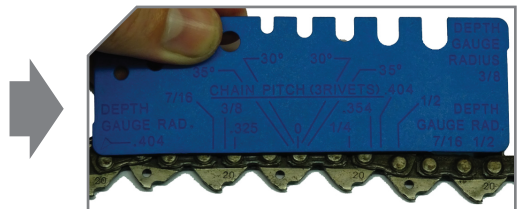
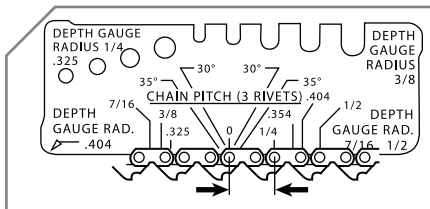
1. Sit the base (2) on your bench with the front overhanging (approx. 140mm overhang)
2. Rest the back of the mounting notches (5) against the front edge of the bench. This is the correct positioning for your sharpener
3. Mark and drill your mounting holes into the bench
4. Slot two of the 80mm bolts through the base and into your bench
5. Tighten using the nuts provided (the nuts need to sit beneath the bench)
6. Slot the cross shaped locating pin on the back of the top motor section (1) into the centre hole of the base
7. Insert the 45mm bolt into the hexagonal slot of the top motor section and into the base (2)
8. Slip on the washer provided and install the large black locking knob. Tighten

**NOTE:** We have provided you with extra bolts should you choose to mount the sharpener to the wall

## CHAIN IDENTIFICATION



Prior to setting up the angles on the sharpener, it is important to identify the model and specifications of your chain. To ensure you are use the correct discs and angles required, these is generally an identification number on the multiple teeth of your chain. This can then be used with the chart provided on the last page of this manual to obtain the correct model and specifications needed.



If you cannot identify your chain, you can use the blue template provided or contact the chain manufacturer.



1. Loosen the locking knob at the back of the machine
2. Tilt the top motor section (1) to the right until you reach your desired angle
3. Re-tighten the locking knob

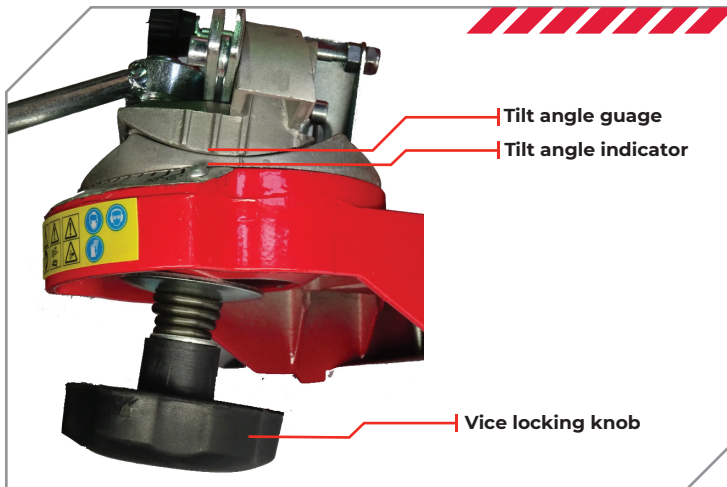
## SETTING THE VICE ANGLE

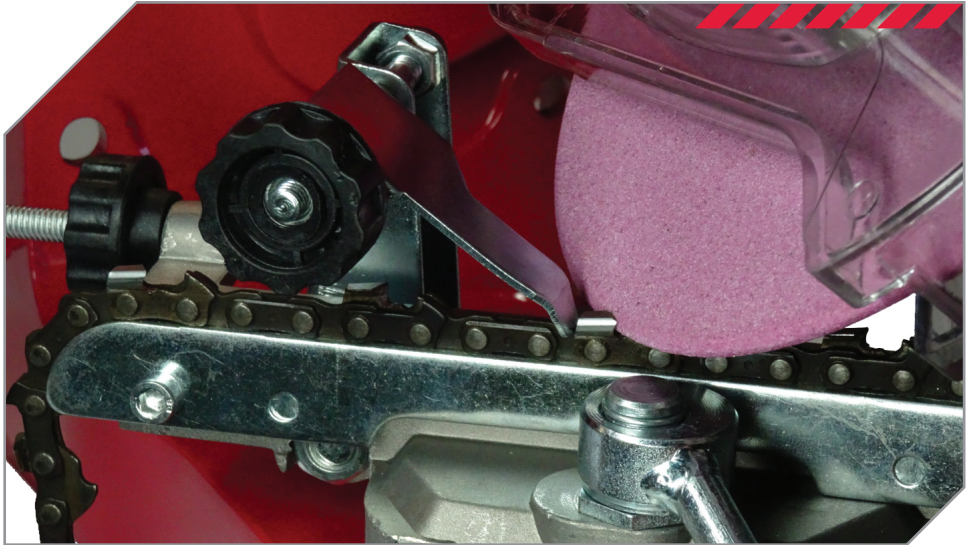
1. **VERY CAREFULLY** loosen the vice locking knob (11) (only loosen this just enough so that you can slowly adjust the angle. If you loosen it too much the ball bearings may fall out or become wedged)
2. Using both hands, hold on to both ends of the chain track
3. Rotate carefully either clockwise or counterclockwise
4. Re-tighten the vice locking knob (11)

## SETTING THE TILT ANGLE

Some manufacturers require a 10 degree tilt angle to sharpen their chains. cast into the aluminium of the side of the chain vice. These indicate the tilt angle. The centre line is 0 degrees; and the lines either side of this are 10 degrees to the left and 10 degrees to the right. It is very simple to set this tilt angle.

1. **VERY CAREFULLY** loosen the vice locking knob (11) (only loosen this just enough so that you can slowly adjust the angle. If you loosen it too much the ball bearings may fall out or become wedged)
2. Slowly and carefully move the chain vice section in a shuffling motion until the indicator lines up with your desired angle
3. Retighten the vice locking knob (11)





1. Release the chain vice locking lever (10)
2. Place the chain into the track, ensuring it can move freely forwards and backwards
3. Lower the chain backstop (7) and pull the chain firmly up against it
4. Adjust the rear backstop adjustment screw (8) forwards or backwards to bring the chain into the correct position for sharpening
5. Lower the top motor section (1) down and ensure the grinding wheel only just skims the tooth on the chain  
NOTE: It is better to set the back stop so the grinding wheel is barely touching the tooth and adjust it further forward while you are doing your first sharpening as it is better to take off too little and adjust it, rather than take off too much. While grinding, if the tooth turns red, there is too much contact between the wheel and the tooth and you need to move the chain backstop (7) backward
6. Once you are satisfied with the position, ensure you tighten the backstop adjustment locking knob (9) to hold it in place
7. Lock the chain vice locking lever (10) once you are satisfied with the rear stop setting. Ensure the chain does not move lift up from the base of the vice

## SETTING THE DEPTH

Now it is time to set the depth of the top motor section

1. Turn the depth stop adjustment knob (3) clockwise (or counterclockwise) until the disc is at the desired depth to sharpen the entire circumference of the cutting surface of the chain  
NOTE: Ensure it will not cut through the bottom of the chain
2. Tighten the depth stop locking nut (4) to up against the machine to hold the depth stop in place



NOTE: ensure that you do not place your whole weight on the machine or force it down. Only minimal pressure is required, so that the wheel is only just skimming the surface of the tooth

2. Carry out a test grind on one tooth and adjust accordingly any setting angles if required
3. Cycle through all the left-hand teeth of the chain
4. Loosen the vice locking knob (11) carefully
5. Rotate the vice section (6) to face the opposite side
6. Lock the vice locking knob (11)
7. Check all settings and angles are correct. Perform a test grind on a single tooth again
8. Now you can sharpen the opposing teeth.

NOTE: This tool uses an induction motor. By design, they get very warm. This heat is completely normal.

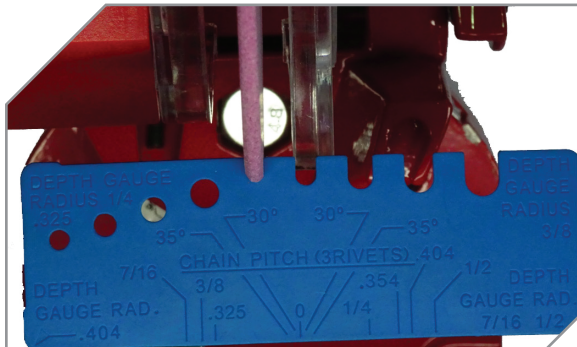
NOTE: It is important to remember that if you are not starting off using this machine with a brand-new chain, that it is not uncommon for the teeth to be different lengths. This is especially common when chains have previously been hand sharpened. In this instance, you may need to reset the chain back stop for every tooth to ensure an optimal sharpen.

## DRESSING THE WHEEL

After a certain amount of time, the edge of the grinding wheel will become misshapen.

**Use the blue template provided, check which slot your wheel fits into.** These slots are a template to show the correct shape of the wheel.

Use the dressing stone to shape the wheel to match the curve in the blue template



# STANDART CHAIN SIZE CHART

SWB1705



Chain Pitch	Gauge	OREGON	STIHL	SANDVIK	CARBON	Wise Angle	Top Plate Angle	Tilt Angle	Wheel Width	Depth Gauge
1/4"	0.0507/1,3mm	25AP	13RM	50K		30°	60°	10°	1/8"/3,2mm	0,025"/0,63mm
0,325"	0,0507/1,3mm	20LP	23RS	50JLG	K1L	25°	60°	10°	1/8"/3,2mm	0,025"/0,63mm
0,325"	0,0687/1,6mm	21LP	28RS	58JLG	K2L	25°	60°	10°	1/8"/3,2mm	0,025"/0,63mm
0,325"	0,0637/1,6mm	22LP	26RS	63JLG	K3L	25°	60°	10°	1/8"/3,2mm	0,025"/0,63mm
0,325"	0,0507/1,3mm	20BP	23RM	50J	K1C	30°	60°	10°	1/8"/3,2mm	0,025"/0,63mm
0,325"	0,0587/1,5mm	21BP	25RM	58J	K2C	30°	60°	10°	1/8"/3,2mm	0,025"/0,63mm
0,325"	0,0637/1,6mm	22BP	26RM	63J	K3C	30°	60°	10°	1/8"/3,2mm	0,025"/0,63mm
0,325"	0,0507/1,3mm	95VP			K1N	5°	60°	10°	1/8"/3,2mm	0,025"/0,63mm
0,325"	0,0507/1,3mm	95R				25°	50°	10°	1/8"/3,2mm	0,0307/0,76mm
0,325"	0,0587/1,5mm	M21LP				25°	60°	10°	1/8"/3,2mm	0,025"/0,63mm
0,325"	0,0637/1,6mm	M22LP				25°	60°	10°	1/8"/3,2mm	0,025"/0,63mm
3/8"	0,0507/1,3mm	72LG	33RS	50AL	A1LM	25°	60°	10°	1/8"/3,2mm-3/16"/4,7mm	0,025"/0,63mm
3/8"	0,0587/1,5mm	73LG	35RS	58AL	A2LM	25°	60°	10°	1/8"/3,2mm-3/16"/4,7mm	0,025"/0,63mm
3/8"	0,0637/1,6mm	75LG	36RS	63AL	A3LM	25°	60°	10°	1/8"/3,2mm-3/16"/4,7mm	0,025"/0,63mm
3/8"	0,0507/1,3mm	72LP	33RS	50ALG	A1L	25°	60°	10°	1/8"/3,2mm-3/16"/4,7mm	0,025"/0,63mm
3/8"	0,0587/1,5mm	73LP	35RS	58ALG	A2L	25°	60°	10°	1/8"/3,2mm-3/16"/4,7mm	0,025"/0,63mm
3/8"	0,0637/1,6mm	75LP	36RS	63ALG	A3L	25°	60°	10°	1/8"/3,2mm-3/16"/4,7mm	0,025"/0,63mm
3/8"	0,0507/1,3mm	72DP	33RM1	50AG	A1EP	35°	60°	0°	1/8"/3,2mm-3/16"/4,7mm	0,025"/0,63mm
3/8"	0,0587/1,5mm	73DP		58AG	A2EP	35°	60°	0°	1/8"/3,2mm-3/16"/4,7mm	0,025"/0,63mm
3/8"	0,0637/1,6mm	75DP	36RM1	63AG	A3EP	35°	60°	0°	1/8"/3,2mm-3/16"/4,7mm	0,025"/0,63mm
3/8"	0,0507/1,3mm	72RD				10°-15°	50°	10°	1/8"/3,2mm-3/16"/4,7mm	0,025"/0,63mm
3/8"	0,0587/1,5mm	73RD				10°-15°	60°	10°	1/8"/3,2mm-3/16"/4,7mm	0,025"/0,63mm
3/8"	0,0637/1,6mm	75RD				10°-15°	60°	10°	1/8"/3,2mm-3/16"/4,7mm	0,025"/0,63mm
3/8"	0,0587/1,5mm	M73LP	36RMX			25°	60°	10°	1/8"/3,2mm-3/16"/4,7mm	0,025"/0,63mm
3/8"	0,0637/1,6mm	M75LP				25°	60°	10°	1/8"/3,2mm-3/16"/4,7mm	0,025"/0,63mm
3/8(90)	0,0437/1,1mm	90VS	63PMN		N4C	30°	50°	0°	1/8"/3,2mm-3/16"/4,7mm	0,0207/0,50mm
3/8(91)	0,0507/1,3mm	91VG	63PM	50R	N1C	30°	60°	0°	1/8"/3,2mm-3/16"/4,7mm	0,025"/0,63mm
3/8(91)	0,0507/1,3mm	91VG	63PM1	50RG	NIC-BL	30°	60°	0°	1/8"/3,2mm-3/16"/4,7mm	0,025"/0,63mm
3/8(91)	0,0507/1,3mm	91R	63PMX			5°	60°	0°	1/8"/3,2mm-3/16"/4,7mm	0,025"/0,63mm
0,404"	0,0587/1,5mm	58L			B2LM	25°	60°	10°	3/16"/4,7mm	0,025"/0,63mm
0,404"	0,0637/1,6mm	59L			B3LM	25°	60°	10°	3/16"/4,7mm	0,025"/0,63mm
0,404"	0,0587/1,5mm	26/P		58B	B2EP	35°	60°	10°	3/16"/4,7mm	0,0307/0,76mm
0,404"	0,0637/1,6mm	27/P		63B	B3EP	35°	60°	10°	3/16"/4,7mm	0,0307/0,76mm
0,404"	0,0637/1,6mm	59AC		63BC	B3S	35°	60°	0°	3/16"/4,7mm	0,0307/0,76mm
0,404"	0,0637/1,6mm	27R	46RMX	63BR	B3RM10	10°-15°	50°	10°	3/16"/4,7mm	0,0307/0,76mm
0,404"	0,0637/1,6mm	16H	46RMH	HC	B3M	35°	60°	10°	3/16"/4,7mm	0,0507/1,27mm
0,404"	0,0607/2,0mm	18H	49RMH	2HC	B5M	35°	60°	10°	3/16"/4,7mm	0,0507/1,27mm
3/4"	0,1227/3,1mm	11H			G7S	35°	60°	10°	1/4"/6mm	0,0707/1,77mm







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