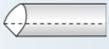
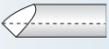
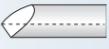


Which Shape Should I Use?

On this Selection Chart you can see which shape is suitable for your current type of turning. The geometries have been worked out in co-operation with some of the world's most experienced woodturners and woodturning workshops and it is supplied as a laminated sheet together with the Turning Tool Setter TTS-100.

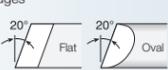
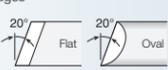
Bowl Gouges

1	$\alpha=45^\circ$		JS 2 P 65 Hole A	Standard profile. Only lightly swept back wings. For turners of all skill levels.
2	$\alpha=45^\circ$		JS 2 P 65 Hole A	Irish profile. Swept back wings. Swing the tool 180° from side to side.
3	$\alpha=40^\circ$		JS 2 P 75 Hole A	With long swept back wings. Somewhat aggressive. For professional level turners.
4	$\alpha=55^\circ$		JS 4 P 65 Hole A	The larger edge angle is beneficial when turning deep bowls.
5	$\alpha=60^\circ$		JS 6 P 75 Hole A	"Ellsworth" shape. Wings are pronounced convex.

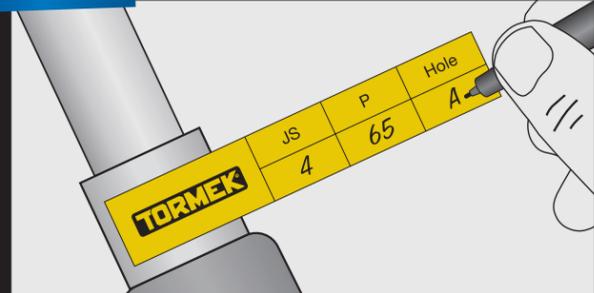
Spindle Gouges

1	$\alpha=30^\circ$		JS 2 P 55 Hole B	For tight spots, detail work and finest finish. For professional level turners.
2	$\alpha=45^\circ$		JS 2 P 65 Hole A	Standard profile. For turners of all skill levels.

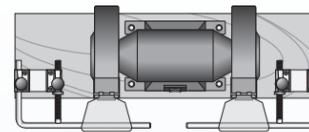
Skews

1	Straight edges $\alpha=30^\circ$		JS 20° P 65 Hole B	For tight spots, detail work and finest finish. For professional level turners.
2	Straight edges $\alpha=45^\circ$		JS 20° P 55 Hole B	For broad application. Easier to control than a 30° edge angle.
3	Radius edges $\alpha=30^\circ$		JS 30° P 75 Hole B	For tight spots, detail work and finest finish. For professional level turners.
4	Radius edges $\alpha=45^\circ$		JS 30° P 65 Hole B	For broad application. Easier to control than a 30° edge angle.

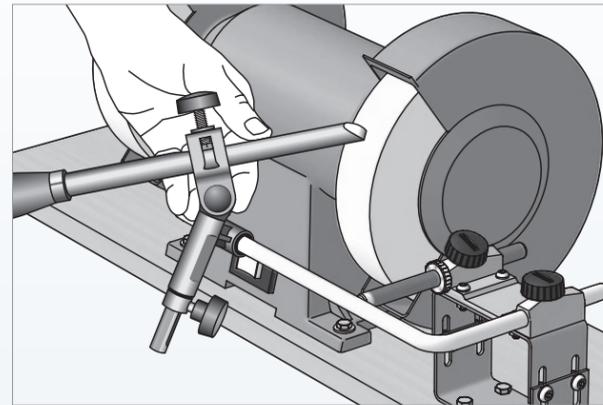
TIP!



The Turning Tool Setter TTS-100 is delivered with recipe labels so that you can easily mark your skews, bowl and spindle gouges with the settings used. Makes it very easy to re-sharpen to the exact same shape!



With the Bench Grinder Mounting Set BGM-100 you get all the hardware you need to use the patented Tormek woodturning jigs on a bench grinder.



Using a Tormek Machine

Tormek make a clear distinction between shaping and sharpening. Once the tool is shaped, you just touch up the edge to a razor sharpness. You never remove more steel than necessary. You will achieve the finest edge, which gives the wood a smoother finish with less need for sanding. A finer edge also stays sharp longer than a rough edge.

If you prefer, the initial shaping can be done on a bench grinder with the BGM-100 Mounting Set. Since the patented Turning Tool Setter TTS-100 works on all stone diameters, the shape and edge angle is exactly replicated even when you go from a smaller bench grinder wheel to the large Tormek grindstone. This means you can benefit from the fast steel removal on the bench grinder and also get the finest surface on the water cooled grindstone and the leather honing wheel.

WHEEL CONDITION

At the low speed there are no vibrations. You keep the grindstone running true with the Tormek Truing Tool TT-50. If the stone becomes glazed, you refresh it with the Stone Grader SP-650. The grit is 220 and the stone can be treated with the Tormek Stone Grader to work like a finer 1000 grit stone.

SAFETY

At the slow speed there is much less risk of accidents. Since no sparks are produced, you can also safely use your machine in a fire sensitive workshop. No grinding dust pollutes the air because all the grinding particles of steel and stone grains are collected in the water trough.

HONING

Powerhone and polish the bevel to a mirror finish on the leather honing wheel with the tool kept in the jig. The jig ensures that you hone at the right angle and do not round off the tip. The flute on gouges can be honed on the Profiled Leather Honing Wheel LA-120.

INFLUENCE OF HEAT ON HSS STEEL

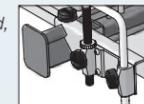
Due to the continuous water cooling there is no risk for overheating the edge.

Using a Bench Grinder

If you use a bench grinder, you fix the Tormek BGM-100 Bench Grinder Mounting Set onto a wooden platform, and you can benefit from the unique Tormek Sharpening System for woodturning tools. Mount the set on either side of the grinder, or buy two sets and mount on both sides and you get a versatile sharpening system.

Not all wheels on a bench grinder are suitable for the precision sharpening of edge tools. The standard wheels are usually too hard and become easily glazed, which reduces steel removal and can cause overheating of the tool. Exchange the wheel to an aluminium oxide wheel with an open binding. The wheel should not be too hard to avoid glazing and not too soft to avoid grooves.

NOTE if you already have a **Wolverine jig arm** mounted, you can use the Tormek Converter OWC-1 to set the Tormek BGM-100 directly to the v-arm. (Wolverine is a product manufactured by OneWay Manufacturing.)



WHEEL CONDITION

True the wheel regularly to make the wheel run smoothly and minimize vibration. Use the truing tool recommended for your grinder. Also ensure that the surface does not become glazed by refreshing it with a dressing tool.

SAFETY

A bench grinder must be handled with knowledge and care. Follow the safety instructions which come with your machine. Always use eye protection. Ensure that you do not work near dry shavings or wood dust, since a spark can light a fire.

HONING

A smoother edge makes the tool cut more easily and the sharpness stays longer. Hone away the burr and smooth the bevel with a honing stone and the flute of the gouge with a slip stone.

INFLUENCE OF HEAT ON HSS STEEL

HSS steel can withstand a much higher heat than carbon steel. However, at the very end of the tip, which is very thin, the temperature can reach a level high enough to affect the hardness. Therefore grind cautiously at the tip of the edge. If you cool in water, do not cool abruptly, since this can cause micro cracks invisible to the naked eye.

TORMEK

ACCESSORIES

For Tormek Machines and Bench Grinders

Whether you use your bench grinder or a Tormek machine you will benefit from the precise Tormek jigs. The four accessories below can be used both on a Tormek machine and on a bench grinder.



TTS-100

Turning Tool Setter

Replicates the geometry on turning gouges and skews when using the SVD-186 and SVS-50 jigs. With built in edge geometries.



SVD-186

Gouge Jig

For fingernail shaped turning gouges of any geometry. Includes extra shaft for turning cutters. Also for bent carving gouges and V-tools. Max tool width 36 mm (1 3/8").



SVS-50

Multi Jig

For turning skew chisels, parting and beading tools and roughing gouges. Straight carving gouges up to 50 mm (2") width.



SVD-110

Tool Rest

For turning scrapers, straight hollowing tools and thin parting tools. Also for cabinet scrapers, screwdrivers and spoke shave blades.

For Tormek Machines Only



TT-50

Truing Tool

Trues the grindstone exactly round and flat. Guided by the Universal Support, which also guides the jigs. Dual knobs for smooth feed across the stone.



SP-650

Stone Grader

The fine side grades the stone for a 1000 grit finish. The coarse side of the grader reverses the stone to normal fast grinding. Activates a glazed stone.



LA-120

Profiled Honing Wheels

For the inside honing and polishing of turning/carving gouges and V-tools. Set of two discs, one with a 3 mm (1/8") radius and one with a 60° tip.

For narrow tools complement with LA-124 with 2 mm (3/32") radius and a 45° tip.



TNT-300

Woodturner's Instruction Box

Contains TNT DVD film and detailed Handbook. Shows how to shape, sharpen and hone all your turning tools.



SB-250

Blackstone Silicon SB-250

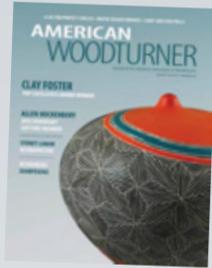
Tormek Blackstone delivers fast steel removal on HSS, exotic alloys and tools with large bevel area. It can also touch up carbide. 220 grit.

Woodturners about Tormek

"Some people have never experienced using a truly sharp tool, but when they do, they will find it takes less force to cut and it cuts so cleanly that the savings in abrasives alone are significant."

"Because Tormek regularly improves its system, that's the brand I selected. Try wet sharpening; like me, you will be amazed how much better your turning experience is."

TERRY MARTIN
American Woodturner



See the film from Nick's workshop at www.tormek.com

NICK AGAR
Woodturning artist
Devon, UK

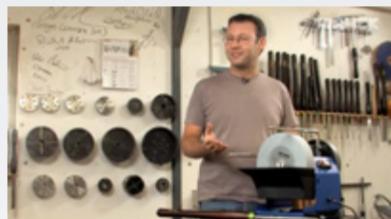
"Whether I am teaching my students or sharpening my own tools, the Tormek is the safest and most accurate system producing the finest edge in the shortest time."



See the film from Kurt's workshop at www.tormek.com

KURT JOHANSSON
Woodturner
Sweden

"I use the Tormek system for all my tools. My jigs are set permanently and the sharpening only takes about a minute. As a production turner I value the short period of time I need to spend on sharpening, which gives me more time for turning."



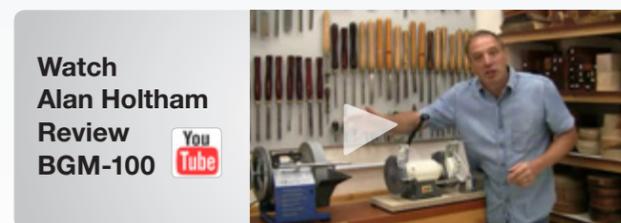
See the film from Glenn's workshop at www.tormek.com

GLENN LUCAS
Woodturner
Ireland

"With Tormek's sharpening machine and jigs, I can finally teach students to efficiently sharpen their tools. Anyone can learn how to achieve a superb cutting edge in 10 seconds! Fantastic system."

Tormek jigs on a Bench Grinder?

Check out the film from Alan Holtham's workshop when he tries out the BGM-100! You will find it at Youtube and www.tormek.com



Watch Alan Holtham Review BGM-100

TNT-708 Woodturner's Kit for Tormek machines

SVD-186, SVS-50, SVD-110, TTS-100, TNT-300

Can be used also on a Bench Grinder

SVD-186, SVS-50, SVD-110, TTS-100, BGM-100

Grinding Jigs

SVM-45	Knife Jig		
SVM-140	Long Knife Jig		
SVX-150	Scissors Jig		
SVA-170	Axe Jig		
SVS-38	Short Tool Jig		
SVD-186	Gouge Jig	x	x
SVS-50	Multi Jig	x	x
SVD-110	Tool Rest	x	x
SE-77	Square Edge Jig		
SVH-320	Planer Blade Attachment		
SVP-80	Moulding Knife Attachment		
DBS-22	Drill Bit Sharpening Attachment		

Accessories

TT-50	Truing Tool		
WM-200	AngleMaster		
SP-650	Stone Grader		
LA-120	Profiled Honing Wheel		x
LA-124	Narrow discs for LA-120		
PA-70	Honing Compound		
TTS-100	Turning Tool Setter	x	x
MH-380	Machine Cover		x
HB-10	Handbook		
DVD-1	Tormek DVD		
TNT-300	Woodturner's Instruction Box		x
BGM-100	Bench Grinder Mounting Set	x	
RB-180	Rotating Base		
OWC-1	Tormek Converter		

Tormek Special Stones

SB-250	Blackstone Silicon (250 mm 10")		
SJ-250	Japanese Waterstone (250 mm 10")		
SJ-200	Japanese Waterstone (200 mm 8")		



TNT-708 Woodturner's Kit

With this kit you get all you need for sharpening woodturning tools on your Tormek!

Tormek offers a complete sharpening system for all your edge tools, visit our website for further information!

GPS EURL

www.gps-eurl.com

info@gps-eurl.com

Tél. : 04-77-60-24-32

Fax : 04-77-69-09-75

7 chemin de la bourbasse 42720 Briennon

www.tormek.com



9072-1611



SHARPENING WOODTURNING TOOLS

USING THE UNIQUE TORMEK JIG SYSTEM



TORMEK®

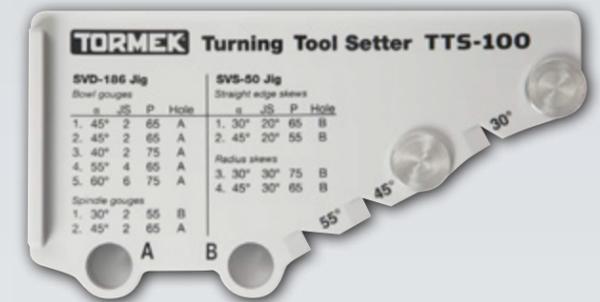
Sharpening Innovation

TTS-100 The Key to Replication

No matter which grinding machine you use the most difficult part in sharpening woodturning tools is to replicate the shape and the edge angle. Tormek have solved this problem by developing a key to instant and exact sharpening – the TTS-100.

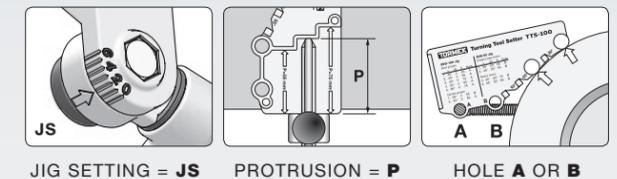
This setting device takes the guesswork out of sharpening. There is no longer any need for trial and error to get the best edge shape for each turning operation. You just set the jig and get the shape you have selected.

Thanks to the patented design it works irrespectively of the stone diameter. You can go from a 6" wheel to a 10" grindstone and achieve the same shape. Of course it works on all Tormek models and together with the BGM-100 Mounting Set it can also be used on a standard bench grinder.



How Does It Work?

Three factors determine the shape of a gouge or a skew. By repeating them at each shaping or sharpening you will get an exact replication of the shape and edge angle every time.



	SVD-186 Gouge Jig	SVS-50 Multi Jig	
1			1. Mount the tool with a fixed protrusion.
2			2. Set the distance of the Universal Support to the wheel.
3			3. Touch up the edge to your chosen shape (JS).

TIP! See the film how TTS-100 works at www.tormek.com