

Merlin Tools Ltd

Tungsten Carbide Burrs



Manufactured in the USA
Distributed in the UK

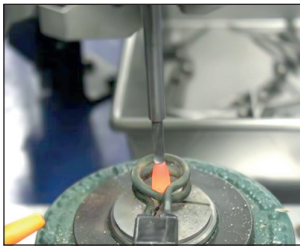


OUR SERVICE



Design

Merlin Tool's rotary carbide burrs combine time-proven geometries assuring the perfect balance between cutting action and tool life. The "attention-to-detail" includes effective, segmental nose radius designs combined with deeper gullets to maximize tool performance, while low TIR values insure consistently smooth operation and impressive tool life. A full range of qualified, industry-accepted standard shapes for workpiece materials ranging from hardened steels to non-ferrous materials.



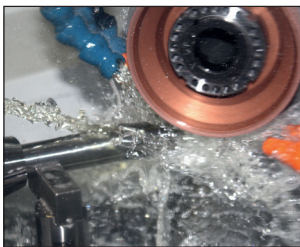
Brazed Carbide Burrs

Induction-brazed shanks are 100% QA tested via computerized "Harmonic Resonance" test equipment to ensure solder-joint integrity prior to grinding finish, along with a sampling of destructive tests during the production process.



Raw Material

Merlin Tool single-sources both carbide components and steel shanking in order to achieve the most consistent long-term quality objectives. Carbide components are made from micrograin K-40 grade tungsten that delivers the ideal combination of hardness and shock resistance, whereas all steel shank options are SAE 8740 Alloy steel, hardened to 46-48 Rockwell "C" with a grind finish of Ra 32 or better."



Manufacture

The Production System operates utilising simulators and measuring and grinding equipment to ensure our tools remain consistent across differing batch dates. All of Merlin Burrs are produced using C.N.C. "state-of-the-art" grinding machines.



Inspection and Quality

Continuous batch testing on all the tools is performed using "state-of-the-art" measurement diagnostics machines ensuring incredibly tight tolerances and products of the highest quality. A final manual inspection is performed during cleaning to ensure our tools are 100% quality controlled.



Despatch

We carry an extensive range of tools in stock ensuring a fast turn around on all orders with same day despatch on all standard products. Our tools go through a final visual inspection before being carefully packed and despatched.

If you have any question regarding the production of our products, please do not hesitate to call the team at Merlin Tools.

SPECIALS SERVICE

Merlin Tools is committed to providing our customers with a cost effective solution to their requirements.

Call our sales team to discuss your needs:

01509 610300

Special Application & Non-Standard Burrs

At Merlin Tools we pride ourselves on understanding the needs of our clients. We know you expect quality and precision not only from our impressive range of ex-stock tooling but also when you need something special.

Merlin Tools provides a full service capability that is dedicated to providing you with the highest quality in precision manufactured cutting tools to meet the most demanding requirements. Our bespoke tool manufacturing service builds on this reputation and provides you with the exacting precision performance tool tailored for your specific needs.

If we do not offer a burr as standard from our range, we can offer it as a special order item to meet your exact requirements. We can modify one of our existing burrs or also offer a full design service from drawing to finished product.

Please contact our sales team who will be happy to discuss your options with you.

All of our Carbide Burrs are also available in Blue nAco Coating which considerably improves performance and tool life.

Blue nAco Coated

Our Blue nAco coating provides up to **2.5 times** regular tool life.

Colour: varying shade of blue-grey. Blue-based colour dissipates immediately upon use.

Vickers Hardness: approximately 4,500 Vickers.

Outstanding performance in super alloys & hard material machining with high heat applications.



Tungsten Carbide Burrs

Range

Standard Cut, Double Cut, Aluminium Cut and AlTiN Coated available. Standard Length and Extra Long Length available

Size

Metric 1.5mm through to 25.4mm diameter.

Finish

Bright Finish and AlTiN Coated.

Options

Tools are available in popular shapes from A (Cylindrical) through to N (Inverted Cone) Shape.







3mm and 6mm shanks available.

Individual Burrs or Comprehensive Sets and Special Burrs available.

Delivery

Over 150,000 tools available from stock for Same-Day despatch.

Merlin Tools Ltd	Description	Sizes	Shape/Series	Page	Steel	Stainless Steel	Aluminium & Non Ferrous	Titanium & Heat Resistant Alloys	Cast Iron	Hardened Steel	Cermet

Tungsten Carbide Burrs											
	Cylinder - No End Cut				6	●	●	●	●	●	●
	Standard Cut										
	Double Cut	1.5 mm to 25.4 mm	A								
	Aluminium Cut			●							
	Cylinder - End Cut				7	●	●	●	●	●	●
	Standard Cut										
	Double Cut	1.5 mm to 25.4 mm	B								
	Aluminium Cut			●							
	Ball Nosed Cylinder				8	●	●	●	●	●	●
	Standard Cut										
	Double Cut	2.5 mm to 25.4 mm	C								
	Aluminium Cut			●							
	Ball				9	●	●	●	●	●	●
	Standard Cut										
	Double Cut	1.5 mm to 25.4 mm	D								
	Aluminium Cut			●							
	Oval				10	●	●	●	●	●	●
	Standard Cut										
	Double Cut	3 mm to 19 mm	E								
	Aluminium Cut			●							
	Ball Nosed Tree				11	●	●	●	●	●	●
	Standard Cut										
	Double Cut	3 mm to 19 mm	F								
	Aluminium Cut			●							
	Double Cut AlTiN				●						

Steel	Stainless Steel	Aluminium & Non Ferrous	Titanium & Heat Resistant Alloys	Cast Iron	Hardened Steel	Cermet
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Tungsten Carbide Burrs						
	Tree					
	Standard Cut					
	Double Cut	3mm to 19mm	G	12		
	Aluminium Cut					
	Flame					
	Standard Cut					
	Double Cut	3mm to 19mm	H	13		
	Aluminium Cut					
	Countersink - 60°					
	Standard Cut					
	Double Cut	3mm to 25mm	J	14		
	Aluminium Cut					
	Countersink - 90°					
	Standard Cut					
	Double Cut	3mm to 25mm	K	15		
	Aluminium Cut					
	Ball Nosed Cone					
	Standard Cut					
	Double Cut	3mm to 19mm	L	16		
	Aluminium Cut					
	Cone					
	Standard Cut					
	Double Cut	3mm to 16mm	M	17		
	Aluminium Cut					
	Inverted Cone					
	Standard Cut					
	Double Cut	2.5mm to 19mm	N	18		
	Aluminium Cut					
	Tyre Burrs					
	Round Shank	3mm to 10mm	TB	19		
	Burr Sets					
	5 piece burr set					
	Double Cut & Double Cut AITiN					
	10 piece burr set					
	Double Cut & Double Cut AITiN					
	5 piece burr set for Aluminium					
	10 piece miniature burr set - Double Cut					

MA

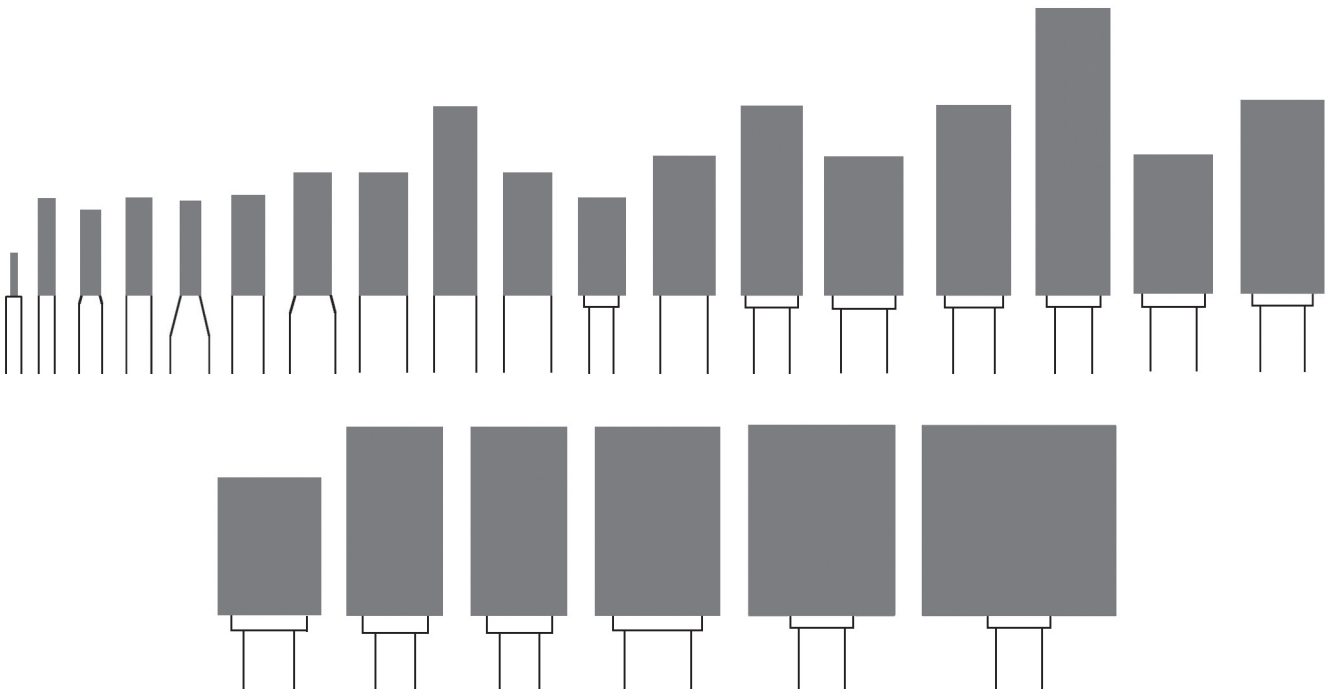
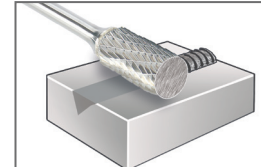
Cylinder - No End Cut

Head Dia.	Head Length	Shank Dia.	OAL	Solid Carbide	Single Cut	Double Cut	Aluminium Cut	Performance Double Cut AITiN
1.5	6	3	38	●	MA-41SC	MA-41DC	MA-41AC	MA-41DC-Z
2.4	13	2.4	38	●	MA-61SC	MA-61DC		MA-61DC-Z
2.5	11	3	38	●	MA-42SC	MA-42DC	MA-42AC	MA-42DC-Z
3	14	3	38	●	MA-43SC	MA-43DC	MA-43AC	MA-43DC-Z
3	12.7	6	50	●	MA-12SC	MA-12DC	MA-12AC	MA-12DC-Z
4	13	4	50	●	MA-72SC	MA-72DC		MA-72DC-Z
5	16	6	50	●	MA-14SC	MA-14DC	MA-14AC	MA-14DC-Z
6	16	6	50	●	MA-1SC	MA-1DC	MA-1AC	MA-1DC-Z
6	25	6	50	●	MA-1ASC	MA-1ADC	MA-1AAC	MA-1ADC-Z
6	16	6	162		MA-1L6SC	MA-1L6DC	MA-1L6AC	MA-1L6DC-Z
6.3	12.7	3	50		MA-51SC	MA-51DC	MA-51AC	MA-51DC-Z
8	19	6	64		MA-2SC	MA-2DC	MA-2AC	MA-2DC-Z
8	25	6	70		MA-2ASC	MA-2ADC	MA-2AAC	MA-2ADC-Z
9.5	19	6	64		MA-3SC	MA-3DC	MA-3AC	MA-3DC-Z
9.5	25	6	70		MA-3ASC	MA-3ADC	MA-3AAC	MA-3ADC-Z
9.5	38	6	83		MA-3BSC	MA-3BDC	MA-3BAC	MA-3BDC-Z
9.5	19	6	169		MA-3L6SC	MA-3L6DC	MA-3L6AC	MA-3L6DC-Z
11	25	6	70		MA-4SC	MA-4DC	MA-4AC	MA-4DC-Z
12	19	6	69		MA-32SC	MA-32DC		MA-32DC-Z
12.7	25	6	70		MA-5SC	MA-5DC	MA-5AC	MA-5DC-Z
12.7	25	6	178		MA-5L6SC	MA-5L6DC	MA-5L6AC	MA-5L6DC-Z
16	25	6	70		MA-6SC	MA-6DC	MA-6AC	MA-6DC-Z
19	25	6	70		MA-7SC	MA-7DC	MA-7AC	MA-7DC-Z
25.4	25	6	70		MA-9SC	MA-9DC	MA-9AC	MA-9DC-Z



Suitable Material Groups
For technical information, see page: **TIPAGE 24-25**

1.1 - 1.6	1.1 - 1.6	6.1 - 8.3	1.1 - 1.6
1.7 - 1.8	1.7 - 1.8		1.7 - 1.8
2.1 - 2.3	2.1 - 2.3		2.1 - 2.3
3.1 - 3.4	3.1 - 3.4		3.1 - 3.4
4.1 - 5.3	4.1 - 5.3		4.1 - 5.3



Up to 2.5 times regular tool life

All of our Carbide Burrs are also available in Blue nAco Coating which considerably improves performance and tool life. Please contact our sales department for a quotation.

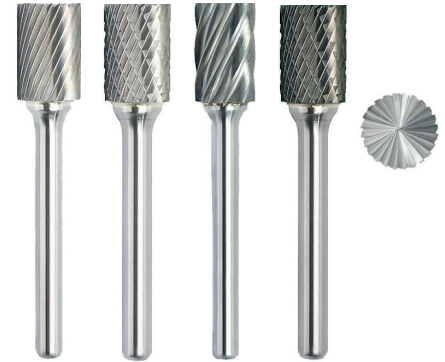


Tungsten Carbide Burrs

MB

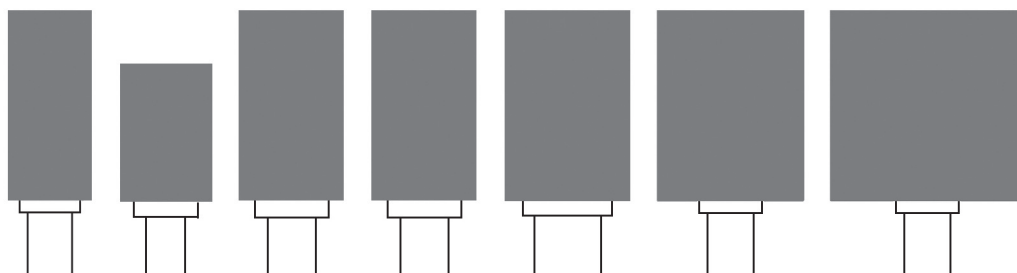
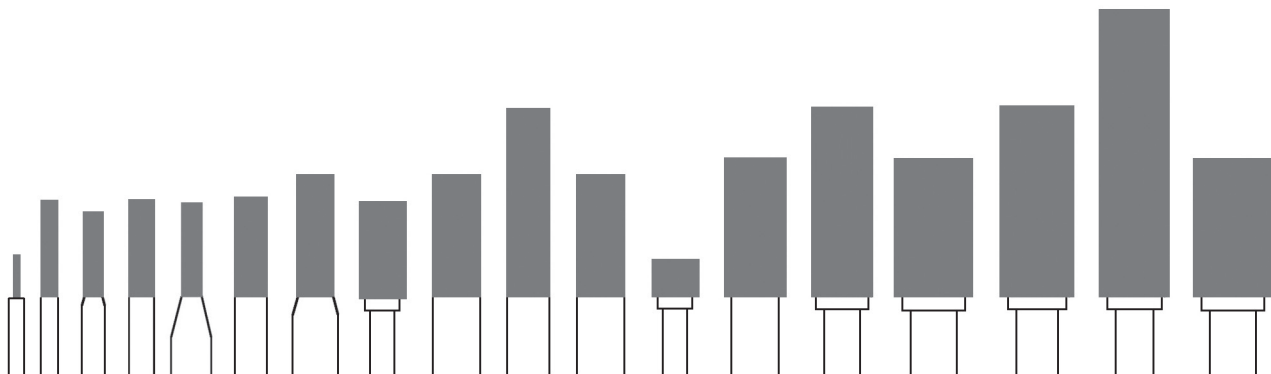
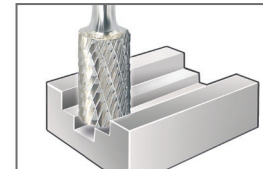
Cylinder - End Cut

Head Dia.	Head Length	Shank Dia.	OAL	Solid Carbide	Single Cut	Double Cut	Aluminium Cut	Performance Double Cut AITiN
1.5	6	3	38	●	MB-41SC	MB-41DC	MB-41AC	MB-41DC-Z
2.4	13	2.4	38	●	MB-61SC	MB-61DC		MB-61DC-Z
2.5	11	3	38	●	MB-42SC	MB-42DC	MB-42AC	MB-42DC-Z
3	14	3	38	●	MB-43SC	MB-43DC	MB-43AC	MB-43DC-Z
3	12.7	6	50	●	MB-12SC	MB-12DC	MB-12AC	MB-12DC-Z
4	13	4	50	●	MB-72SC	MB-72DC		MB-72DC-Z
5	16	6	50	●	MB-14SC	MB-14DC	MB-14AC	MB-14DC-Z
6	13	3	50	●	MB-51ASC	MB-51ADC		MB-51ADC-Z
6	16	6	50	●	MB-1SC	MB-1DC	MB-1AC	MB-1DC-Z
6	25	6	50	●	MB-1ASC	MB-1ADC	MB-1AAC	MB-1ADC-Z
6	16	6	162		MB-1L6SC	MB-1L6DC	MB-1L6AC	MB-1L6DC-Z
6.3	4.7	3	43		MB-51SC	MB-51DC	MB-51AC	MB-51DC-Z
8	19	6	64		MB-2SC	MB-2DC	MB-2AC	MB-2DC-Z
8	25	6	70		MB-2ASC	MB-2ADC	MB-2AAC	MB-2ADC-Z
9.5	19	6	64		MB-3SC	MB-3DC	MB-3AC	MB-3DC-Z
9.5	25	6	70		MB-3ASC	MB-3ADC	MB-3AAC	MB-3ADC-Z
9.5	38	6	83		MB-3BSC	MB-3BDC	MB-3BAC	MB-3BDC-Z
9.5	19	6	169		MB-3L6SC	MB-3L6DC	MB-3L6AC	MB-3L6DC-Z
11	25	6	70		MB-4SC	MB-4DC	MB-4AC	MB-4DC-Z
12	19	6	70		MB-32SC	MB-32DC		MB-32DC-Z
12.7	25	6	70		MB-5SC	MB-5DC	MB-5AC	MB-5DC-Z
12.7	25	6	175		MB-5L6SC	MB-5L6DC	MB-5L6AC	MB-5L6DC-Z
16	25	6	70		MB-6SC	MB-6DC	MB-6AC	MB-6DC-Z
19	25	6	70		MB-7SC	MB-7DC	MB-7AC	MB-7DC-Z
25.4	25	6	70		MB-9SC	MB-9DC	MB-9AC	MB-9DC-Z



Suitable Material Groups
For technical information, see page: **TIPAGE 24-25**

1.1 - 1.6	1.1 - 1.6	6.1 - 8.3	1.1 - 1.6
1.7 - 1.8	1.7 - 1.8		1.7 - 1.8
2.1 - 2.3	2.1 - 2.3		2.1 - 2.3
3.1 - 3.4	3.1 - 3.4		3.1 - 3.4
4.1 - 5.3	4.1 - 5.3		4.1 - 5.3




Up to 2.5 times regular tool life

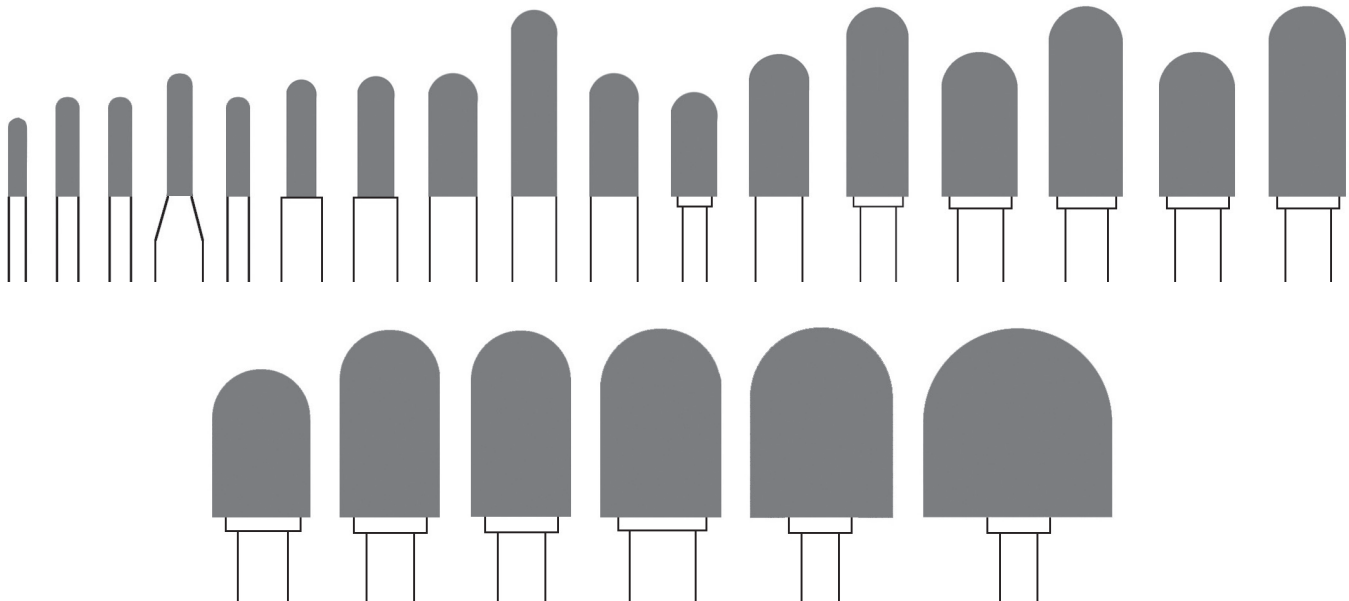
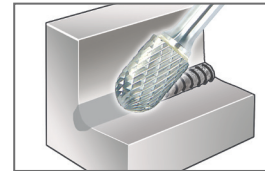
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Ball Nosed Cylinder

Head Dia.	Head Length	Shank Dia.	OAL	Solid Carbide	Single Cut	Double Cut	Aluminium Cut	Performance Double Cut AITIN
2.5	11	3	38	●	MC-41SC	MC-41DC	MC-41AC	MC-41DC-Z
3	14	3	38	●	MC-42SC	MC-42DC	MC-42AC	MC-42DC-Z
3	14	3	50	●	MC-42L2SC	MC-42L2DC	MC-42L2AC	MC-42L2DC-Z
3	16	6	60	●	MC-12SC	MC-12DC	MC-12AC	MC-12DC-Z
3	14	3	75	●	MC-42L3SC	MC-42L3DC	MC-42L3AC	MC-42L3DC-Z
4	16	6	50	●	MC-13SC	MC-13DC		MC-13DC-Z
5	16	6	50	●	MC-14SC	MC-14DC	MC-14AC	MC-14DC-Z
6	16	6	50	●	MC-1SC	MC-1DC	MC-1AC	MC-1DC-Z
6	25	6	50	●	MC-1ASC	MC-1ADC	MC-1AAC	MC-1ADC-Z
6	16	6	162		MC-1L6SC	MC-1L6DC	MC-1L6AC	MC-1L6DC-Z
6.3	12.7	3	50		MC-51SC	MC-51DC	MC-51AC	MC-51DC-Z
8	19	6	64		MC-2SC	MC-2DC	MC-2AC	MC-2DC-Z
8	25	6	70		MC-2ASC	MC-2ADC	MC-2AAC	MC-2ADC-Z
9.5	19	6	64		MC-3SC	MC-3DC	MC-3AC	MC-3DC-Z
9.5	25	6	70		MC-3ASC	MC-3ADC	MC-3AAC	MC-3ADC-Z
9.5	19	6	169		MC-3L6SC	MC-3L6DC	MC-3L6AC	MC-3L6DC-Z
11	25	6	70		MC-4SC	MC-4DC	MC-4AC	MC-4DC-Z
12	19	6	69		MC-22SC	MC-22DC		MC-22DC-Z
12.7	25	6	70		MC-5SC	MC-5DC	MC-5AC	MC-5DC-Z
12.7	25	6	175		MC-5L6SC	MC-5L6DC	MC-5L6AC	MC-5L6DC-Z
16	25	6	70		MC-6SC	MC-6DC	MC-6AC	MC-6DC-Z
19	25	6	70		MC-7SC	MC-7DC	MC-7AC	MC-7DC-Z
25.4	25	6	70		MC-9SC	MC-9DC	MC-9AC	MC-9DC-Z



Suitable Material Groups For technical information, see page: 	1.1 - 1.6	1.1 - 1.6	6.1 - 8.3	1.1 - 1.6
	1.7 - 1.8	1.7 - 1.8		1.7 - 1.8
	2.1 - 2.3	2.1 - 2.3		2.1 - 2.3
	3.1 - 3.4	3.1 - 3.4		3.1 - 3.4
	4.1 - 5.3	4.1 - 5.3		4.1 - 5.3



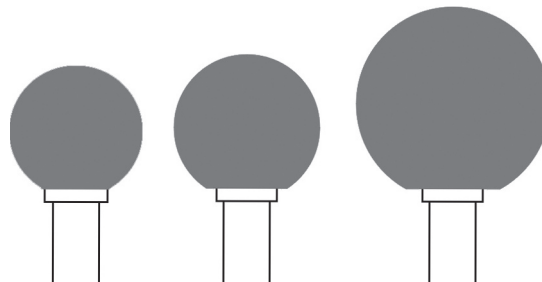
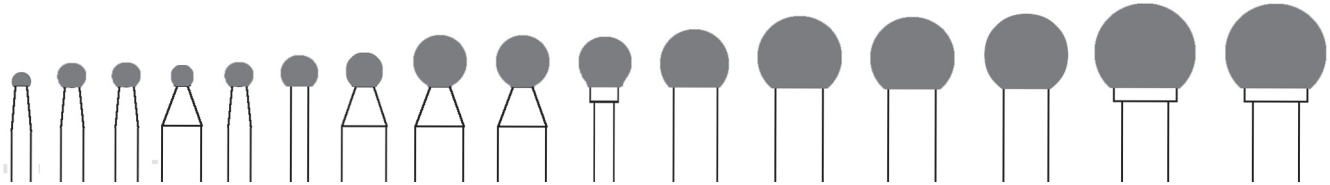
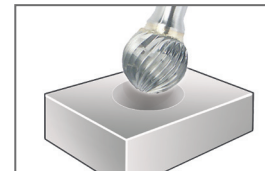
Up to 2.5 times regular tool life

All of our Carbide Burrs are also available in Blue nAcO Coating which considerably improves performance and tool life. Please contact our sales department for a quotation.

Head Dia.	Head Length	Shank Dia.	OAL	Solid Carbide	Single Cut	Double Cut	Aluminium Cut	Performance Double Cut AITIN
2.5	2.3	3	38	●	MD-41SC	MD-41DC	MD-41AC	MD-41DC-Z
3	2.5	3	38	●	MD-42SC	MD-42DC	MD-42AC	MD-42DC-Z
3	2.5	3	50	●	MD-42L2SC	MD-42L2DC	MD-42L2AC	MD-42L2DC-Z
3	2	6	50	●	MD-12SC	MD-12DC	MD-12AC	MD-12DC-Z
3	2.5	3	75	●	MD-42L3SC	MD-42L3DC	MD-42L3AC	MD-42L3DC-Z
4	3.6	3	42	●	MD-52SC	MD-52DC		MD-52DC-Z
5	4	6	50	●	MD-14SC	MD-14DC	MD-14AC	MD-14DC-Z
6	5	6	50	●	MD-1SC	MD-1DC	MD-1AC	MD-1DC-Z
6	5	6	155		MD-1L6SC	MD-1L6DC	MD-1L6AC	MD-1L6DC-Z
6.3	5	3	44		MD-51SC	MD-51DC	MD-51AC	MD-51DC-Z
8	6.4	6	51		MD-2SC	MD-2DC	MD-2AC	MD-2DC-Z
9.5	8	6	53		MD-3SC	MD-3DC	MD-3AC	MD-3DC-Z
9.5	8	6	158		MD-3L6SC	MD-3L6DC	MD-3L6AC	MD-3L6DC-Z
11	9.5	6	54		MD-4SC	MD-4DC	MD-4AC	MD-4DC-Z
12.7	11	6	56		MD-5SC	MD-5DC	MD-5AC	MD-5DC-Z
12.7	11	6	161		MD-5L6SC	MD-5L6DC	MD-5L6AC	MD-5L6DC-Z
16	14	6	59		MD-6SC	MD-6DC	MD-6AC	MD-6DC-Z
19	16	6	61		MD-7SC	MD-7DC	MD-7AC	MD-7DC-Z
25.4	21	6	66		MD-9SC	MD-9DC	MD-9AC	MD-9DC-Z



Suitable Material Groups For technical information, see page: TCPAGE 24-25	1.1 - 1.6	1.1 - 1.6	6.1 - 8.3	1.1 - 1.6
	1.7 - 1.8	1.7 - 1.8		1.7 - 1.8
	2.1 - 2.3	2.1 - 2.3		2.1 - 2.3
	3.1 - 3.4	3.1 - 3.4		3.1 - 3.4
	4.1 - 5.3	4.1 - 5.3		4.1 - 5.3



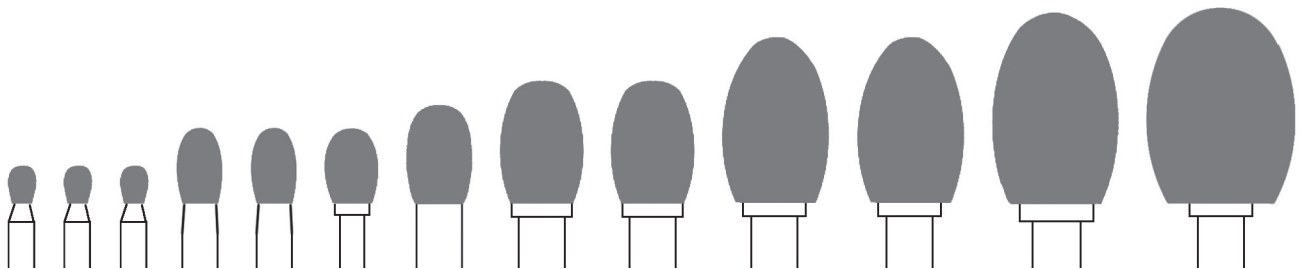
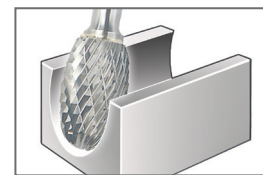
Up to 2.5 times regular tool life

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Head Dia.	Head Length	Shank Dia.	OAL	Solid Carbide	Single Cut	Double Cut	Aluminium Cut	Performance Double Cut AITIN
3	5.5	3	38	●	ME-41SC	ME-41DC	ME-41AC	ME-41DC-Z
3	5.5	3	50	●	ME-41L2SC	ME-41L2DC	ME-41L2AC	ME-41L2DC-Z
3	5.5	3	75	●	ME-41L3SC	ME-41L3DC	ME-41L3AC	ME-41L3DC-Z
6	9.5	6	50	●	ME-1SC	ME-1DC	ME-1AC	ME-1DC-Z
6	9.5	6	160		ME-1L6SC	ME-1L6DC	ME-1L6AC	ME-1L6DC-Z
6.3	9.5	3	47		ME-51SC	ME-51DC	ME-51AC	ME-51DC-Z
8	13	6	68		ME-2SC	ME-2DC		ME-2DC-Z
9.5	16	6	61		ME-3SC	ME-3DC	ME-3AC	ME-3DC-Z
9.5	16	6	166		ME-3L6SC	ME-3L6DC	ME-3L6AC	ME-3L6DC-Z
12.7	22	6	67		ME-5SC	ME-5DC	ME-5AC	ME-5DC-Z
12.7	22	6	172		ME-5L6SC	ME-5L6DC	ME-5L6AC	ME-5L6DC-Z
16	25	6	70		ME-6SC	ME-6DC	ME-6AC	ME-6DC-Z
19	25	6	70		ME-7SC	ME-7DC	ME-7AC	ME-7DC-Z



Suitable Material Groups For technical information, see page: TIPAGE 24-25	1.1 - 1.6	1.1 - 1.6	6.1 - 8.3	1.1 - 1.6
	1.7 - 1.8	1.7 - 1.8		1.7 - 1.8
	2.1 - 2.3	2.1 - 2.3		2.1 - 2.3
	3.1 - 3.4	3.1 - 3.4		3.1 - 3.4
	4.1 - 5.3	4.1 - 5.3		4.1 - 5.3



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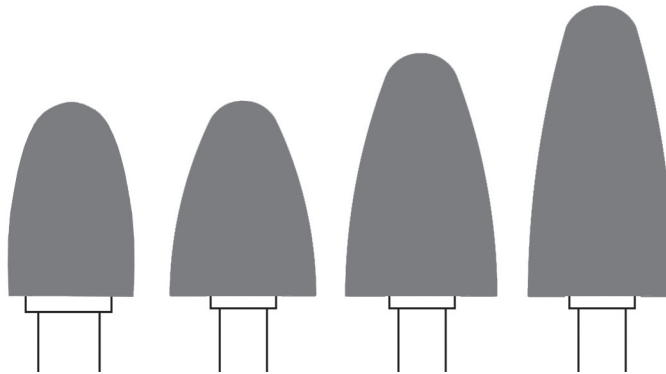
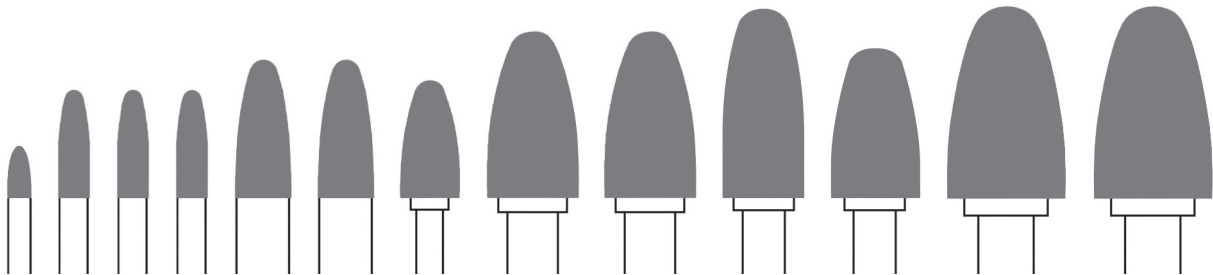
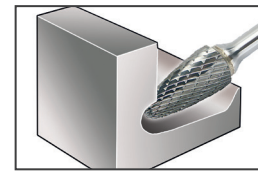
MF

Ball Nosed Tree

Head Dia.	Head Length	Shank Dia.	OAL	Solid Carbide	Single Cut	Double Cut	Aluminium Cut	Performance Double Cut AITIN
3	6	3	38	●	MF-41SC	MF-41DC	MF-41AC	MF-41DC-Z
3	12.7	3	38	●	MF-42SC	MF-42DC	MF-42AC	MF-42DC-Z
3	12.7	3	50	●	MF-42L2SC	MF-42L2DC	MF-42L2AC	MF-42L2DC-Z
3	12.7	3	75	●	MF-42L3SC	MF-42L3DC	MF-42L3AC	MF-42L3DC-Z
6	16	6	50	●	MF-1SC	MF-1DC	MF-1AC	MF-1DC-Z
6	16	6	172		MF-1L6SC	MF-1L6DC	MF-1L6AC	MF-1L6DC-Z
6.3	12.7	3	50		MF-51SC	MF-51DC	MF-51AC	MF-51DC-Z
9.5	19	6	64		MF-3SC	MF-3DC	MF-3AC	MF-3DC-Z
9.5	19	6	169		MF-3L6SC	MF-3L6DC	MF-3L6AC	MF-3L6DC-Z
11	25	6	70		MF-4SC	MF-4DC	MF-4AC	MF-4DC-Z
12.7	19	6	64		MF-13SC	MF-13DC	MF-13AC	MF-13DC-Z
12.7	25	6	70		MF-5SC	MF-5DC	MF-5AC	MF-5DC-Z
12.7	25	6	175		MF-5L6SC	MF-5L6DC	MF-5L6AC	MF-5L6DC-Z
16	25	6	70		MF-6SC	MF-6DC	MF-6AC	MF-6DC-Z
19	25	6	70		MF-7SC	MF-7DC	MF-7AC	MF-7DC-Z
19	32	6	77		MF-14SC	MF-14DC	MF-14AC	MF-14DC-Z
19	38	6	83		MF-15SC	MF-15DC	MF-15AC	MF-15DC-Z



Suitable Material Groups For technical information, see page: TIPAGE 24-25	1.1 - 1.6	1.1 - 1.6	6.1 - 8.3	1.1 - 1.6
	1.7 - 1.8	1.7 - 1.8		1.7 - 1.8
	2.1 - 2.3	2.1 - 2.3		2.1 - 2.3
	3.1 - 3.4	3.1 - 3.4		3.1 - 3.4
	4.1 - 5.3	4.1 - 5.3		4.1 - 5.3



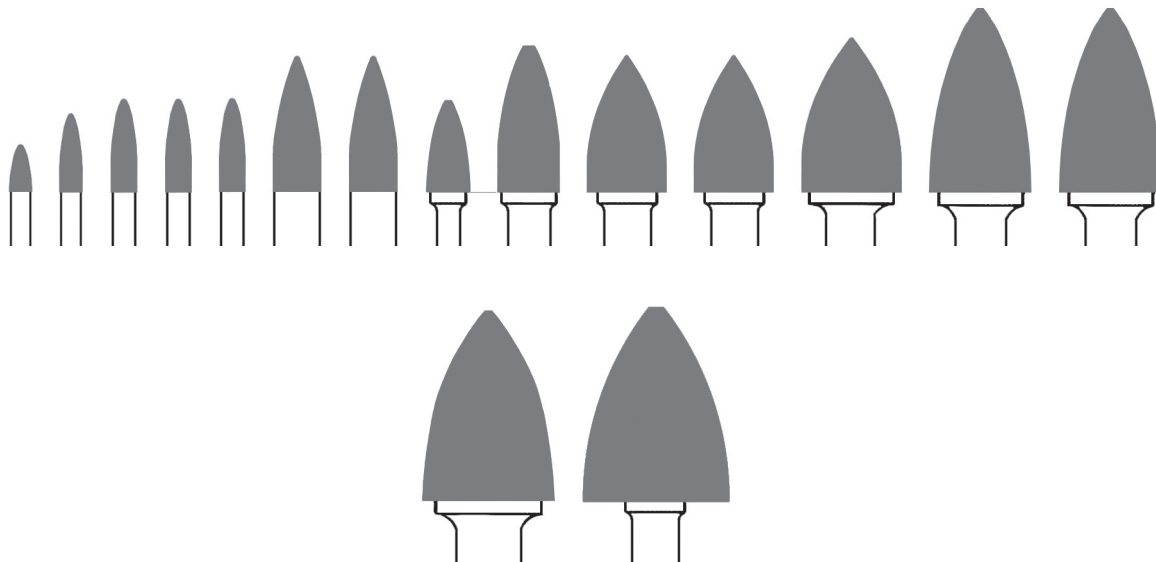
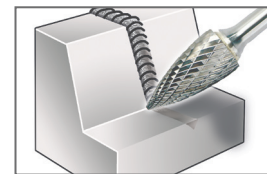
Up to 2.5 times regular tool life

All of our Carbide Burrs are also available in Blue nAco Coating which considerably improves performance and tool life. Please contact our sales department for a quotation.

Head Dia.	Head Length	Shank Dia.	OAL	Solid Carbide	Single Cut	Double Cut	Aluminium Cut	Performance Double Cut ATTN
3	6	3	38	●	MG-41SC	MG-41DC	MG-41AC	MG-41DC-Z
3	9.5	3	38	●	MG-43SC	MG-43DC	MG-43AC	MG-43DC-Z
3	12.7	3	38	●	MG-44SC	MG-44DC	MG-44AC	MG-44DC-Z
3	12.7	3	50	●	MG-44L2SC	MG-44L2DC	MG-44L2AC	MG-44L2DC-Z
3	12.7	3	75	●	MG-44L3SC	MG-44L3DC	MG-44L3AC	MG-44L3DC-Z
6	16	6	50	●	MG-1SC	MG-1DC	MG-1AC	MG-1DC-Z
6	16	6	163		MG-1L6SC	MG-1L6DC	MG-1L6AC	MG-1L6DC-Z
6.3	12.7	3	50		MG-51SC	MG-51DC	MG-51AC	MG-51DC-Z
8	19	6	64		MG-2SC	MG-2DC	MG-2AC	MG-2DC-Z
9.5	19	6	64		MG-3SC	MG-3DC	MG-3AC	MG-3DC-Z
9.5	19	6	169		MG-3L6SC	MG-3L6DC	MG-3L6AC	MG-3L6DC-Z
12.7	19	6	64		MG-13SC	MG-13DC	MG-13AC	MG-13DC-Z
12.7	25	6	70		MG-5SC	MG-5DC	MG-5AC	MG-5DC-Z
12.7	25	6	175		MG-5L6SC	MG-5L6DC	MG-5L6AC	MG-5L6DC-Z
16	25	6	70		MG-6SC	MG-6DC	MG-6AC	MG-6DC-Z
19	25	6	70		MG-7SC	MG-7DC	MG-7AC	MG-7DC-Z



Suitable Material Groups For technical information, see page: TIPAGE 24-25	1.1 - 1.6	1.1 - 1.6	6.1 - 8.3	1.1 - 1.6
	1.7 - 1.8	1.7 - 1.8		1.7 - 1.8
	2.1 - 2.3	2.1 - 2.3		2.1 - 2.3
	3.1 - 3.4	3.1 - 3.4		3.1 - 3.4
	4.1 - 5.3	4.1 - 5.3		4.1 - 5.3



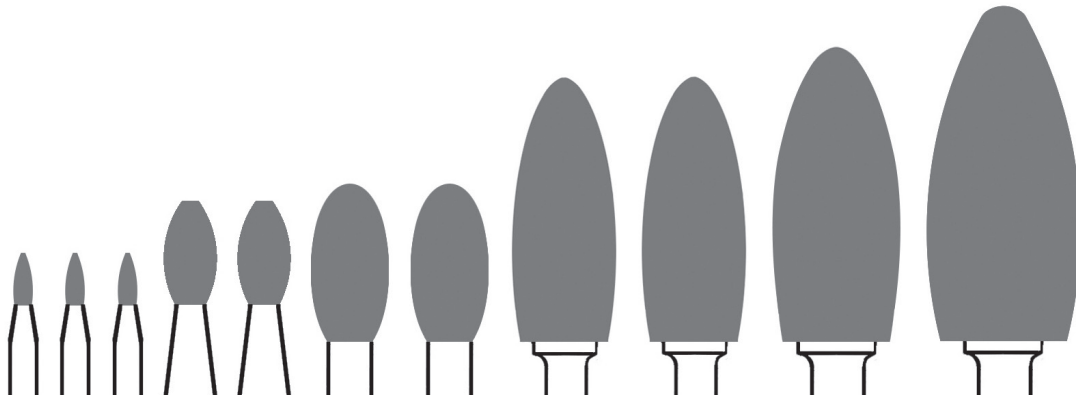
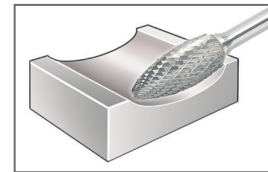
Up to 2.5 times regular tool life

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Head Dia.	Head Length	Shank Dia.	OAL	Solid Carbide	Single Cut	Double Cut	Aluminium Cut	Performance Double Cut AITIN
3	6.3	3	38	●	MH-41SC	MH-41DC	MH-41AC	MH-41DC-Z
3	6.3	3	50	●	MH-41L2SC	MH-41L2DC	MH-41L2AC	MH-41L2DC-Z
3	6.3	3	75	●	MH-41L3SC	MH-41L3DC	MH-41L3AC	MH-41L3DC-Z
6	12.7	6	50	●	MH-1SC	MH-1DC	MH-1AC	MH-1DC-Z
6	12.7	6	160		MH-1L6SC	MH-1L6DC	MH-1L6AC	MH-1L6DC-Z
8	19	6	64		MH-2SC	MH-2DC	MH-2AC	MH-2DC-Z
8	19	6	169		MH-2L6SC	MH-2L6DC	MH-2L6AC	MH-2L6DC-Z
12.7	32	6	77		MH-5SC	MH-5DC	MH-5AC	MH-5DC-Z
12.7	32	6	182		MH-5L6SC	MH-5L6DC	MH-5L6AC	MH-5L6DC-Z
16	36	6	81		MH-6SC	MH-6DC	MH-6AC	MH-6DC-Z
19	41	6	86		MH-7SC	MH-7DC	MH-7AC	MH-7DC-Z



Suitable Material Groups For technical information, see page: TCPAGE 24-25	1.1 - 1.6	1.1 - 1.6	6.1 - 8.3	1.1 - 1.6
	1.7 - 1.8	1.7 - 1.8		1.7 - 1.8
	2.1 - 2.3	2.1 - 2.3		2.1 - 2.3
	3.1 - 3.4	3.1 - 3.4		3.1 - 3.4
	4.1 - 5.3	4.1 - 5.3		4.1 - 5.3



Up to 2.5 times regular tool life

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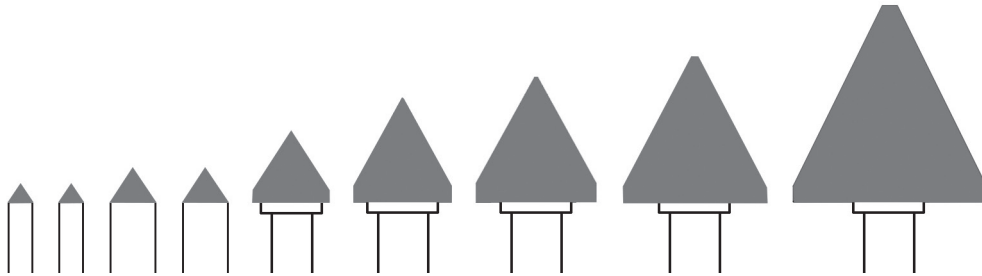
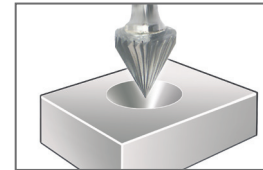
MJ

60° Countersink

Head Dia.	Head Length	Shank Dia.	OAL	Solid Carbide	Double Ended	Single Cut	Double Cut	Aluminium Cut	Performance Double Cut AITiN
3	2.5	3	38	●		MJ-42SC	MJ-42DC	MJ-42AC	MJ-42DC-Z
3	2.5	3	38	●	●	MJ-42DESC	MJ-42DEDC	MJ-42DEAC	MJ-42DEDC-Z
6	4	6	50	●		MJ-1SC	MJ-1DC	MJ-1AC	MJ-1DC-Z
6	4	6	50	●	●	MJ-1DESC	MJ-1DEDC	MJ-1DEAC	MJ-1DEDC-Z
9.5	8	6	53			MJ-3SC	MJ-3DC	MJ-3AC	MJ-3DC-Z
12.7	11	6	56			MJ-5SC	MJ-5DC	MJ-5AC	MJ-5DC-Z
16	14.5	6	59.5			MJ-6SC	MJ-6DC	MJ-6AC	MJ-6DC-Z
19	17.5	6	62.5			MJ-7SC	MJ-7DC	MJ-7AC	MJ-7DC-Z
25	24.5	6	69.5			MJ-9SC	MJ-9DC	MJ-9AC	MJ-9DC-Z



Suitable Material Groups	1.1 - 1.6	1.1 - 1.6	6.1 - 8.3	1.1 - 1.6
For technical information, see page:	1.7 - 1.8	1.7 - 1.8		1.7 - 1.8
	2.1 - 2.3	2.1 - 2.3		2.1 - 2.3
	3.1 - 3.4	3.1 - 3.4		3.1 - 3.4
	4.1 - 5.3	4.1 - 5.3		4.1 - 5.3



Up to 2.5 times regular tool life

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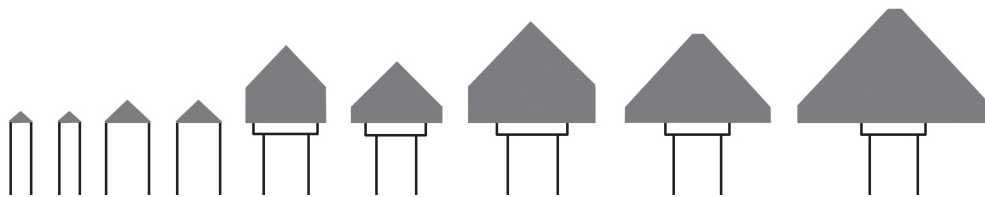
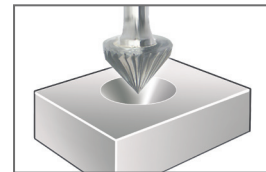
MK

90° Countersink

Head Dia.	Head Length	Shank Dia.	OAL	Solid Carbide	Double Ended	Single Cut	Double Cut	Aluminium Cut	Performance Double Cut AITiN
3	1.5	3	38	●		MK-42SC	MK-42DC	MK-42AC	MK-42DC-Z
3	1.5	3	38	●	●	MK-42DESC	MK-42DEDC	MK-42DEAC	MK-42DEDC-Z
6	3	6	50	●		MK-1SC	MK-1DC	MK-1AC	MK-1DC-Z
6	3	6	50	●	●	MK-1DESC	MK-1DEDC	MK-1DEAC	MK-1DEDC-Z
9.5	4.7	6	49.7			MK-3SC	MK-3DC	MK-3AC	MK-3DC-Z
12.7	6.3	6	51.3			MK-5SC	MK-5DC	MK-5AC	MK-5DC-Z
16	8	6	53			MK-6SC	MK-6DC	MK-6AC	MK-6DC-Z
19	9.5	6	54.5			MK-7SC	MK-7DC	MK-7AC	MK-7DC-Z
25	12.7	6	57.7			MK-9SC	MK-9DC	MK-9AC	MK-9DC-Z



Suitable Material Groups	1.1 - 1.6	1.1 - 1.6	6.1 - 8.3	1.1 - 1.6
For technical information, see page: TIPAGE 24-25	1.7 - 1.8	1.7 - 1.8		1.7 - 1.8
	2.1 - 2.3	2.1 - 2.3		2.1 - 2.3
	3.1 - 3.4	3.1 - 3.4		3.1 - 3.4
	4.1 - 5.3	4.1 - 5.3		4.1 - 5.3



Up to 2.5 times regular tool life

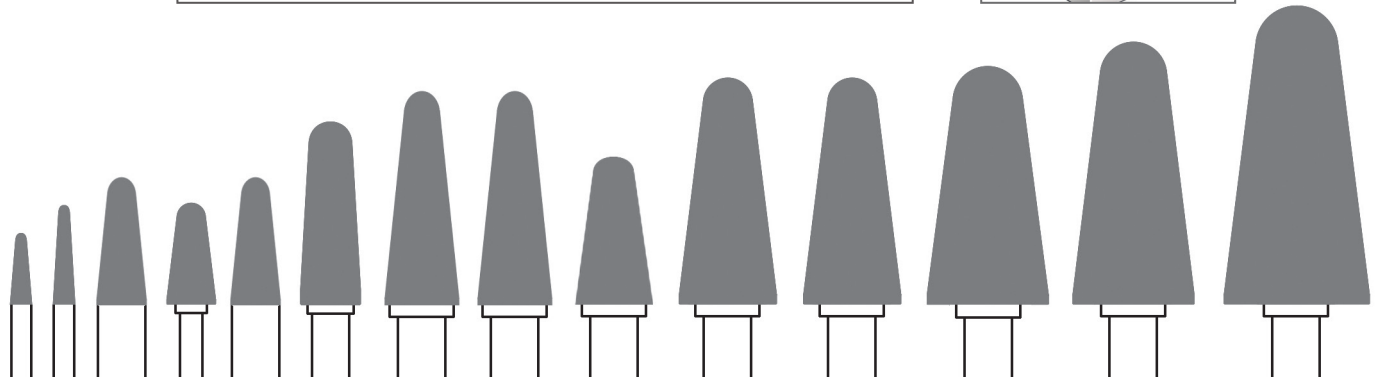
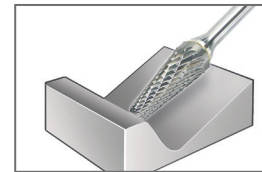
All of our Carbide Burrs are also available in Blue nAco Coating which considerably improves performance and tool life. Please contact our sales department for a quotation.

ML Ball Nosed Cone - Included Angle - 14°

Head Dia.	Head Length	Shank Dia.	OAL	Solid Carbide	Degree Angle	Single Cut	Double Cut	Aluminium Cut	Performance Double Cut AITiN
3	9.5	3	38	●	8°	ML-41SC	ML-41DC	ML-41AC	ML-41DC-Z
3	12.7	3	38	●	8°	ML-42SC	ML-42DC	ML-42AC	ML-42DC-Z
6	16	6	50	●	14°	ML-1SC	ML-1DC	ML-1AC	ML-1DC-Z
6	13	3	53		14°	ML-51SC	ML-51DC		ML-51DC-Z
6	16	6	166		14°	ML-1L6SC	ML-1L6DC	ML-1L6AC	ML-1L6DC-Z
8	22	6	67		14°	ML-2SC	ML-2DC	ML-2AC	ML-2DC-Z
9.5	27	6	72		14°	ML-3SC	ML-3DC	ML-3AC	ML-3DC-Z
9.5	27	6	177		14°	ML-3L6SC	ML-3L6DC	ML-3L6AC	ML-3L6DC-Z
10	19	6	68		14°	ML-32SC	ML-32DC		ML-32DC-Z
12.7	28	6	73		14°	ML-4SC	ML-4DC	ML-4AC	ML-4DC-Z
12.7	28	6	178		14°	ML-4L6SC	ML-4L6DC	ML-4L6AC	ML-4L6DC-Z
16	30	6	75		14°	ML-5SC	ML-5DC	ML-5AC	ML-5DC-Z
16	33	6	78		14°	ML-6SC	ML-6DC	ML-6AC	ML-6DC-Z
19	38	6	83		14°	ML-7SC	ML-7DC	ML-7AC	ML-7DC-Z



Suitable Material Groups For technical information, see page: T-PAGE 24-25	1.1 - 1.6	1.1 - 1.6	6.1 - 8.3	1.1 - 1.6
	1.7 - 1.8	1.7 - 1.8		1.7 - 1.8
	2.1 - 2.3	2.1 - 2.3		2.1 - 2.3
	3.1 - 3.4	3.1 - 3.4		3.1 - 3.4
	4.1 - 5.3	4.1 - 5.3		4.1 - 5.3



Up to 2.5 times regular tool life

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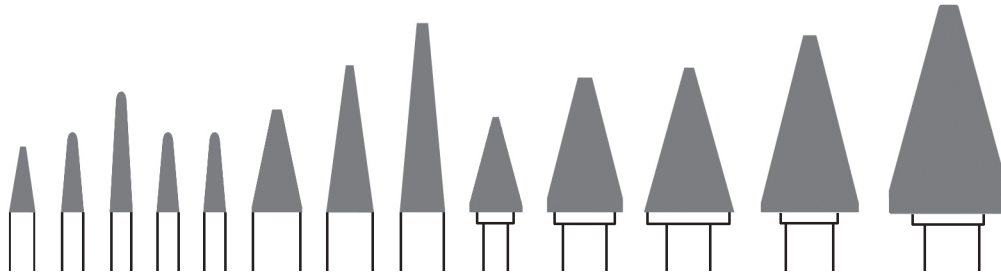
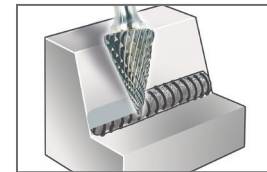
MM

Cone - Included Angle

Head Dia.	Head Length	Shank Dia.	OAL	Solid Carbide	Degree Angle	Single Cut	Double Cut	Aluminium Cut	Performance Double Cut AITiN
3	8.9	3	38	●	12°	MM-41SC	MM-41DC	MM-41AC	MM-41DC-Z
3	11	3	38	●	12°	MM-42SC	MM-42DC	MM-42AC	MM-42DC-Z
3	16	3	38	●	7°	MM-43SC	MM-43DC	MM-43AC	MM-43DC-Z
3	11	3	50	●	14°	MM-42L2SC	MM-42L2DC	MM-42L2AC	MM-42L2DC-Z
3	11	3	75	●	14°	MM-42L3SC	MM-42L3DC	MM-42L3AC	MM-42L3DC-Z
6	12.7	6	50	●	12°	MM-1SC	MM-1DC	MM-1AC	MM-1DC-Z
6	19	6	50	●	12°	MM-2SC	MM-2DC	MM-2AC	MM-2DC-Z
6	25	6	50	●	12°	MM-3SC	MM-3DC	MM-3AC	MM-3DC-Z
6.3	12.7	3	54		22°	MM-51SC	MM-51DC	MM-51AC	MM-51DC-Z
9.5	16	6	61		28°	MM-4SC	MM-4DC	MM-4AC	MM-4DC-Z
12	19	6	75		35°	MM-5ASC	MM-5ADC	MM-5AC	MM-5ADC-Z
12.7	22	6	67		28°	MM-5SC	MM-5DC	MM-5AC	MM-5DC-Z
16	25	6	70		31°	MM-6SC	MM-6DC	MM-6AC	MM-6DC-Z



Suitable Material Groups For technical information, see page: TC PAGE 24-25	1.1 - 1.6	1.1 - 1.6	6.1 - 8.3	1.1 - 1.6
	1.7 - 1.8	1.7 - 1.8		1.7 - 1.8
	2.1 - 2.3	2.1 - 2.3		2.1 - 2.3
	3.1 - 3.4	3.1 - 3.4		3.1 - 3.4
	4.1 - 5.3	4.1 - 5.3		4.1 - 5.3



Up to 2.5 times regular tool life

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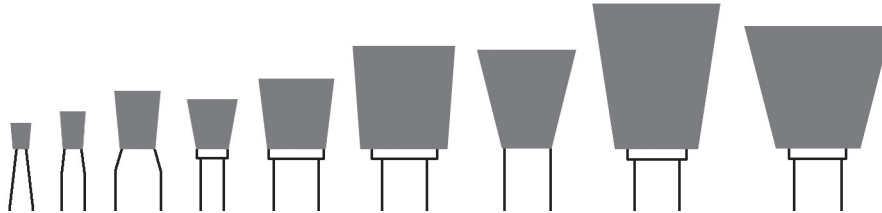
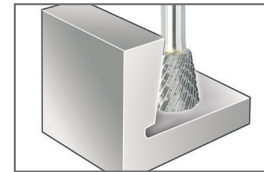
MN

Inverted Cone - No End Cut

Head Dia.	Head Length	Shank Dia.	OAL	Solid Carbide	Degree Angle	Single Cut	Double Cut	Aluminium Cut	Performance Double Cut AITiN
2.5	3	3	38	●	10°	MN-41SC	MN-41DC	MN-41AC	MN-41DC-Z
3	4	3	38	●	10°	MN-42SC	MN-42DC	MN-42AC	MN-42DC-Z
6	8	6	50	●	10°	MN-1SC	MN-1DC	MN-1AC	MN-1DC-Z
6.3	6	3	44		10°	MN-51SC	MN-51DC	MN-51AC	MN-51DC-Z
9.5	9.5	6	54.5		13°	MN-2SC	MN-2DC	MN-2AC	MN-2DC-Z
12	13	6	69		20°	MN-3SC	MN-3DC		MN-3DC-Z
12.7	12.7	6	57.7		28°	MN-4SC	MN-4DC	MN-4AC	MN-4DC-Z
16	19	6	64		18°	MN-6SC	MN-6DC	MN-6AC	MN-6DC-Z
19	16	6	61		30°	MN-7SC	MN-7DC	MN-7AC	MN-7DC-Z



Suitable Material Groups For technical information, see page: TIPAGE 24-25	1.1 - 1.6	1.1 - 1.6	6.1 - 8.3	1.1 - 1.6
	1.7 - 1.8	1.7 - 1.8		1.7 - 1.8
	2.1 - 2.3	2.1 - 2.3		2.1 - 2.3
	3.1 - 3.4	3.1 - 3.4		3.1 - 3.4
	4.1 - 5.3	4.1 - 5.3		4.1 - 5.3



Up to 2.5 times regular tool life

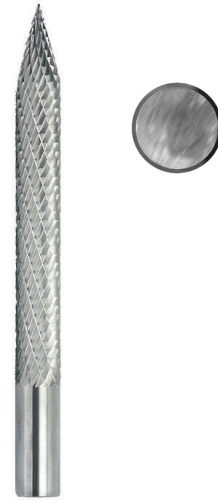
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Tungsten Carbide Tyre Burrs Double Cut - Round Shank

Tyre Burrs

Ti PAGE
24-25

Head Dia.	Head Length	Shank Dia.	OAL	Part Number
3	25	3	50	TB0M
6	50	5	75	TB1M
8	53	3	100	TB2M
10	75	10	100	TB3M



Tungsten Carbide Tyre Burrs Double Cut - 3 Flats Shank

Tyre Burrs

Ti PAGE
24-25

Head Dia.	Head Length	Shank Dia.	OAL	Part Number
3	25	3	38	TB0MT
6	50	5	75	TB1MT
8	53	3	100	TB2MT
10	50	10	100	TB3MT



Tungsten Carbide Burrs 5 Piece Set - Double Cut - Bright Finish

SET 1

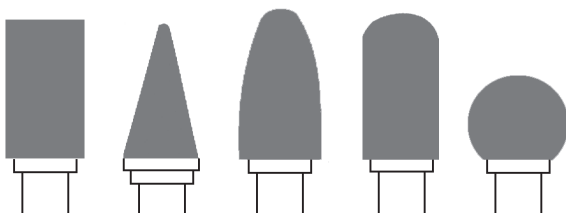
Dimension	Shape	Part Number MBSET 1
12 x 25 x 6 x 69	B	MB-5DC
12 x 22 x 6 x 69	M	MM-5DC
12 x 25 x 6 x 69	C	MC-5DC
12 x 10.8 x 6 x 55	D	MD-5DC
12 x 25 x 6 x 69	F	MF-5DC



Tungsten Carbide Burrs 5 Piece Set - Double Cut - *AlTiN*

SET 1Z

Dimension	Shape	Part Number MBSET 1Z
12 x 25 x 6 x 69	B	MB-5DC-Z
12 x 22 x 6 x 69	M	MM-5DC-Z
12 x 25 x 6 x 69	C	MC-5DC-Z
12 x 10.8 x 6 x 55	D	MD-5DC-Z
12 x 25 x 6 x 69	F	MF-5DC-Z



Suitable Material Groups
For technical information,
see page:



1.1 - 1.6
1.7 - 1.8
2.1 - 2.3
3.1 - 3.4
4.1 - 5.3

Merlin Tools Ltd  manufactured

Tungsten Carbide Burrs 10 Piece Set - Double Cut - Bright Finish

SET 2

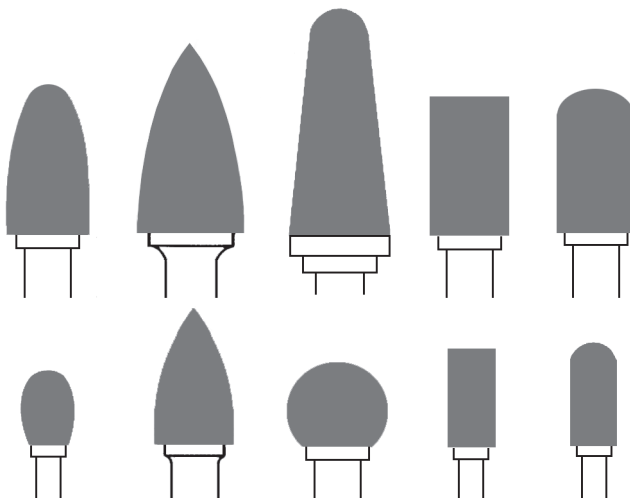
Dimension	Shape	Part Number MBSET 2
10 x 19 x 6 x 63	B	MB-3DC
12 x 25 x 6 x 69	B	MB-5DC
10 x 19 x 6 x 63	C	MC-3DC
12 x 25 x 6 x 69	C	MC-5DC
12 x 30 x 6 x 76	L	ML-4DC
10 x 16 x 6 x 60	E	ME-3DC
10 x 19 x 6 x 63	G	MG-3DC
12 x 25 x 6 x 69	G	MG-5DC
12 x 10.8 x 6 x 55	D	MD-5DC
12 x 25 x 6 x 69	F	MF-5DC



Tungsten Carbide Burrs 10 Piece Set - Double Cut - *AlTiN*

SET 2Z

Dimension	Shape	Part Number MBSET 2Z
10 x 19 x 6 x 63	B	MB-3DC-Z
12 x 25 x 6 x 69	B	MB-5DC-Z
10 x 19 x 6 x 63	C	MC-3DC-Z
12 x 25 x 6 x 69	C	MC-5DC-Z
12 x 30 x 6 x 76	L	ML-4DC-Z
10 x 16 x 6 x 60	E	ME-3DC-Z
10 x 19 x 6 x 63	G	MG-3DC-Z
12 x 25 x 6 x 69	G	MG-5DC-Z
12 x 10.8 x 6 x 55	D	MD-5DC-Z
12 x 25 x 6 x 69	F	MF-5DC-Z



Suitable Material Groups
For technical information,
see page:

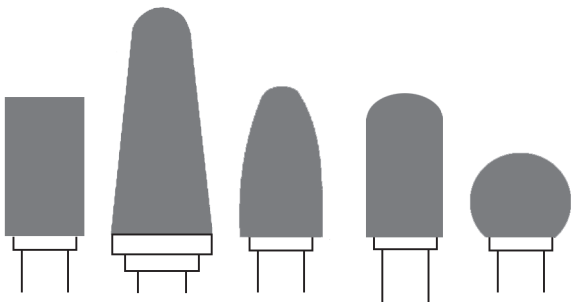


1.1 - 1.6
1.7 - 1.8
2.1 - 2.3
3.1 - 3.4
4.1 - 5.3

Tungsten Carbide Burrs 5 Piece Set - Aluminium Cut

SET 3

Dimension	Shape	Part Number MBSET 3
12 x 25 x 6 x 63	C	MC-5AC
12 x 10.8 x 6 x 58	D	MD-5AC
12 x 30 x 6 x 76	L	ML-4AC
12 x 25 x 6 x 69	F	MF-5AC
12 x 25 x 6 x 70	B	MB-5AC



Suitable Material Groups
For technical information,
see page:

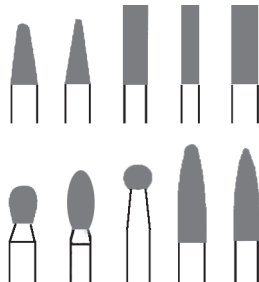
6.1 - 8.3



Tungsten Carbide Miniature Burr 10 Piece Set - Double Cut - Bright Finish

SET 4

Dimension	Shape	Part Number
		MBSET 2Z
3 x 13 x 3 x 38	A	MA-43DC
3 x 13 x 3 x 38	B	MB-43DC
3 x 11 x 3 x 38	M	MM-41DC
3 x 13 x 3 x 38	C	MC-42DC
3 x 8 x 3 x 38	L	ML-41DC
3 x 6 x 3 x 38	E	ME-41DC
3 x 13 x 3 x 38	G	MG-44DC
3 x 2.7 x 3 x 38	D	MD-42DC
3 x 13 x 3 x 38	F	MF-42DC
3 x 8 x 3 x 38	H	MH-41DC



Suitable Material Groups For technical information, see page: TC PAGE 24-25	1.1 - 1.6
	1.7 - 1.8
	2.1 - 2.3
	3.1 - 3.4
	4.1 - 5.3

Technical Information - Material Grouping

Material Group	Material type	Hardness (HB)	Tensile Strength (N/mm ²)	BS	EN & other standards
1 - Steel					
1.1	Magnetic Soft	<120	<400	230M07, 050A12	EN1, EN2 Leadloy
1.2	Structural, case carburising	<200	<700	060A35, 080M40, 4360-50B	EM3A, 4,6,7,8, EN207, S62
1.3	Plain carbon	<250	<850	080M46, 080A62	EN9, 10, 43, S70
1.4	Alloyed	250 - 230	<850	708M40/42, 817M40, 534A99, BM2, BT42	EN16,17, 19(R,S) EN31, S2-10-1-8 (Soft)
1.5	Alloyed	350	850 - 1200	B01, BM2, BT42, 826M40, 830M32	EN24, 25,26(T,U,V) S95, S97, S98 (annealed)
1.6	Alloyed			801, 826M40, 830M31	EN25, 26, 27,(W,X,Z,) S97, S98, (H&T)
1.7	Alloyed - hardened 48-55 HRc			B01, BD3, BH13	
1.8	Alloyed - hardened 56-60 HRc			BM2, BH13	
1.9	Alloyed - hardened >60 HRc				
2 - Stainless steel					
2.1	Free machining	<250	<850	303 S21 416 S37	EN56, EN60
2.2	Austenitic	<250	<850	304 S15, 321 S17 316 S, 320 S12	EN80, EN58 + EN8J, 316
2.3	Ferritic + Austenitic, Ferritic, Martensitic	<300	<1000	317 S16, 316 S16	EN58 b,e,t,j, Duplex alloys
3 - Cast iron					
3.1	Lameller graphite	<150	<500	grade 150, grade 400	Cast iron Soft
3.2	Lameller graphite	150 - 300	500 - 1000	grade 200, grade 400	Cast iron Hard
3.3	Nodular graphite, malleable	<200	<700	420/12, P440/7 700/2. 30g/72	S.G. iron Mehanite Black & White Heart
3.4	Nodular graphite, malleable	200 - 300	700 - 1000	420/12, P440/7 700/2, 30g/72	S.G. iron Mehanite Black & White Heart
4 - Titanium					
4.1	Unalloyed	<200	<700	TA1-9	Ti 99.0
4.2	Alloyed	<270	<900	TA10-14, TA17, TA28	Ti 2AL
4.3	Alloyed	270 - 350	900 - 1250	TA10-13, TA28	Ti AL
5 - Nickel					
5.1	Unalloyed	<150	<500	NA 11, NA 12	Nickel 200, Nickel 270
5.2	Alloyed	<270	<900	HR203 3027-76	Nimonic 75, Hastelloy C Monel 400, Inconel 600 Haynes Alloys 263
5.3	Alloyed	270 - 350	900 - 1260	HR8 HR401, 601	Inconel 718, Waspalloy, Nimonic 80, Rene 41
6 - Copper					
6.1	Unalloyed	<100	<350	C101	Commercially pure
6.2	β - Brass, bronze	<200	<700	CZ120, CZ109, PB104	2.1030, 2.1080
6.3	γ - Brass	<200	<700	CZ108, CZ106	
6.4	High strength bronze	<470	<1500	AB1 type	Ampco 18, Ampco 26
7 - Aluminium / Magnesium					
7.1	Al, Mg, unalloyed	50 - 80	50 - 80	LMO, 1B, (1050A)	Magnesium Extruded Aluminium
7.2	Al alloyed, Si < 0.5%	200 - 250	200 - 250	LM5, 10, 12, N4 (5251)	Low Silicon wrought & cast Aluminium
7.3	Al alloyed, Si > 0.5 - <10%	<200	<700	LM2, 4, 16, 21, 22, 24, 25, 26, 27, L109	Silicon Alluminium
7.4	Al alloyed, Si > 10%, Whisker reinforced, Mg	<470	<1500	LM6, 12, 13, 20, 28, 29, 30	Higi Silicon Alluminium
8 - Plastics					
8.1	Thermoplastics			Polystyrene, Nylon, PVC Cellulose Acetate & Nitrate	Nylon, Hostalen Makrolon
8.2	Thermosetting			Ebonite, Tufnol, Bakelite	Bakelite, Pertinax
8.3	Reinforced plastics			Kevlar, Printed circuit board	CFK, GFK, AFK
9 - Cermet					
9.1	Cermet (metal ceramics)				

Technical Information - Application & Speed Data

Burr Application Data

Material Group	Single Cut	Double Cut	Double Cut AITiN	Aluminium Cut
Aluminium				●
Brass, Bronze, Copper				●
Cast Iron	●	●	●	
Plastics				●
Steel, <48 HRc	●	●	●	
Steel, 48-60 HRc	●	●	●	
Steel, Carbon	●	●	●	
Steel, Chrome	●	●	●	
Stainless Steel	●	●	●	
Steel Weldments	●	●	●	
Titanium	●	●	●	
Zinc				●

Suitable for use = ●

Burr Recommended R.P.M. Guide

Burr Diameter	R.P.M.
3mm Solid Carbide	45,000 - 60,000
5mm Solid Carbide	35,000 - 40,000
5mm Carbide Head Brazed to 3mm Steel Shank	30,000 - 35,000
6mm Solid Carbide	30,000 - 35,000
6mm Carbide Head Brazed to 3mm Steel Shank	25,000 - 30,000
8mm Carbide Head Brazed to 6mm Steel Shank	25,000 - 30,000
10mm Carbide Head Brazed to 6mm Steel Shank	25,000 - 30,000
11mm Carbide Head Brazed to 6mm Steel Shank	20,000 - 25,000
12mm Carbide Head Brazed to 6mm Steel Shank	20,000 - 25,000
16mm Carbide Head Brazed to 6mm Steel Shank	15,000 - 20,000
18mm Carbide Head Brazed to 6mm Steel Shank	15,000 - 20,000
25mm Carbide Head Brazed to 6mm Steel Shank	12,000 - 18,000

When working with long shank burrs, the burr must be in contact with the workpiece (or inserted in the bore or slot to be machined) before the machine is turned on. As a rule, the tool must remain in contact with the workpiece for as long as the machine is running.

Failure to observe this procedure may result in shank failure and hence an increased accident risk. If the continuous contact between the tool and

the workpiece is not guaranteed, the maximum idling speeds stated in the table should not be exceeded.

For safety reasons, the maximum application speeds with contact to the workpiece require a reduction in the recommended standard shank burr speed. The reduced speeds are stated in the table below. To determine the recommended rotational speed range, please proceed as follows:

Burr Diameter (mm)	≥ 75mm Overall Shank Length		≥ 150mm Overall Shank Length	
	Disengaged (without contact)	Engaged (with contact)	Disengaged (without contact)	Engaged (with contact)
3	10,000	30,000	N/A	N/A
6	6,000	15,000	9,500	13,500
9.5	N/A	N/A	6,000	11,000
12	N/A	N/A	3,000	7,000

MERLIN TOOLS LIMITED

(Hereinafter referred to as "The Company")

1. All orders are subject to our Conditions of Sale as detailed below:

All quotations given and all sales made are upon the express condition that, although the goods supplied are of sound commercial quality and every care has been taken in manufacture, there is no guarantee as to their suitability for any specific purpose, even if that purpose is known to The Company. The buyer must therefore satisfy himself that the goods conform to his requirements before use.

2. The Company's liability in respect of goods furnished shall be limited to the purchase price of the goods in respect of which damages are claimed.

3. The buyer shall inspect the goods furnished immediately after delivery. The buyer shall give to the seller immediate written notice of any claim that any of the goods are not of stated quality and the buyer's failure to give notice of any claim within fourteen days from date of advice of despatch or delivery shall constitute an unqualified acceptance of such goods by the buyer. Slight imperfections in colour, appearance and measurements are not to be the subject of complaint. If the purchaser wishes to make a complaint on a later date because of defects hidden at the time of receipt despite a careful examination, the purchaser has a right to demand alteration, substitution, further delivery from the Company's Works if any defect is found by the Company.

4. Owing to fluctuations in the cost of raw materials and labour it may be necessary to alter prices. Every effort will be made to keep customers informed. No responsibility will be accepted for such alterations and prices charged will be those current at time of despatch.

5. Payment terms are strictly nett at the end of the month following month of invoice.

6. The title and ownership of the goods supplied would only be transferred to the purchaser when the amount has been paid in full. Nothing shall prevent the buyer reselling or transferring the goods to a third party in the ordinary course of business, but in such event the buyer will be deemed to sell or transfer the goods as agents for us, and will be deemed to receive and hold any price received thereof for the account of ourselves. The buyer undertakes to pay to us all monies received by the buyer in respect of any sale or transfer of the goods to a third party, until the price of goods sold by us to the buyer has been paid in full.

7. The Company reserves the right to select the means of transportation. Any extra cost incurred by reason of using such other means of transport as the buyer shall select shall be paid by the buyer.

8. In the event of the buyer not receiving the goods within fourteen days of receipt of an advice note he shall notify the Company in writing. Shortages or damages must be reported to the Carrier and to The Company within three days.

9. Any date given for delivery is to be considered as approximate only and cannot be guaranteed. The Company cannot be made responsible for any delays due to strikes, lockouts, accidents on land or on sea, government interference or for any other unforeseen circumstances and no claims for damage or compensation will be accepted.

10. In the event that The Company is compelled to withdraw from any contract due to circumstances mentioned in paragraph 9 this does not affect the right to demand payment in respect of all deliveries made before the date on which the contract is cancelled.

11. Orders accepted by us cannot be cancelled without our consent in writing and on terms that will indemnify against loss. Only in exceptional circumstances and subject to our specific written agreement in each instance, will we accept back for credit goods already delivered. If returned goods are accepted in these circumstances they will be subject to a handling charge.

12. Special non-standard products cannot be cancelled, exchanged or credited. We reserve the right to over or under produce each item by up to 10%.

13. Any dispute arising hereunder shall be referred to arbitration by an arbitrator to be mutually agreed between the parties or failing agreement to any arbitrator to be appointed by the President of the Law Society.

Terms of Trading

All UK orders are subject to our Terms of trading as detailed below:

Orders valued at over £100 nett are Carriage Paid.

No minimum order value.

Orders up to £99.99 nett will incur carriage charge of £6.50

Orders requiring Royal Mail Special Delivery guaranteed next working day before 1.00pm is carriage at cost starting from £8.70 depending upon weight. This must be specified when ordering.

A redirection charge of £4.00 plus VAT will be made where items are sent direct to a Distributor's End User.

Tungsten Carbide Burrs

Merlin Tools Ltd

Quality • Precision • Performance

Distributed by

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