



株洲贝特硬质合金工具有限公司

ZHUZHOU BETTER TUNGSTEN CARBIDE CO.,LTD



**Tungsten Carbide
Burr Blanks**

株洲贝特硬质合金工具有限公司成立于中国硬质合金发源地，亚洲最大的硬质合金生产基地——湖南株洲。公司始终秉承“工匠”精神，专注于硬质合金硬质合金圆棒、硬质合金长条、硬质合金钻齿、硬质合金模具，硬质合金旋转锉及各种非标异形件的生产。我们生产的硬质合金具有高硬度、耐高温、耐腐蚀、高韧性等优点，满足客户不同工况条件下的使用要求。

专业资深的研发团队，为客户提供创新的产品和解决方案；通过与国内国际客户的密切合作，株洲贝特不断探索未来的产品和技术的发展趋势，研发新的材料和加工的解决方案。

专业高效的24小时销售客服，严谨细致的工作态度，保证了我们的产品在国际市场具有强大的竞争力，远销全球70多个国家和地区。

Zhuzhou Better Tungsten Carbide Co., Ltd. was founded in Zhuzhou, which is the birthplace of tungsten carbide in China and also the largest tungsten carbide production base in Asia. With the spirit of "craftsmanship", we specialize in the production of tungsten carbide tools and offer a one-stop service including purchasing, R&D, producing, sales, and after-sales.

ZZbetter produces a wide range of tungsten carbide products with various grades, including carbide rods, carbide strips, carbide buttons, carbide dies, carbide burrs and various non-standard shaped parts. ZZbetter tungsten carbide products are of high hardness, high temperature resistance, high corrosion resistance, and high toughness, which can meet the requirements of different working conditions.

ZZbetter has a professional and experienced R&D team. Cooperating closely with our customers, we keep learning and innovating, insisting on improving product performance, enriching product categories, and increasing customer satisfaction.

ZZbetter owns a skilled and knowledgeable sales team providing 24-hour online services. The advanced technical equipment and sincere working attitude ensure our products have strong competitiveness in the international market. Our tungsten carbide products are exported worldwide.

株洲贝特以高要求、严标准把控产品的细节与制造工序，实验室配备先进的各类仪器设备，严格依据 ISO 质量管理体系对各类产品的化学成分和物理性能进行检测，可达到国际同行先进检测水平。

面对复杂多变的世界，株洲贝特仍将不断探索硬质合金工具的更多可能，立志成为具有国际竞争力的世界一流企业。

Our laboratories are equipped with various advanced machines and equipment to control the details of each product and manufacturing process based on strict standards. The chemical compositions and physical performances are tested strictly according to the ISO Quality Management System.

Driven by the ambition to become a world-class company, ZZbetter is continuing to explore the possibilities of tungsten carbide tools. Zhuzhou Better Tungsten Carbide Company strives to be an industry leader.





Ball Milling Machine



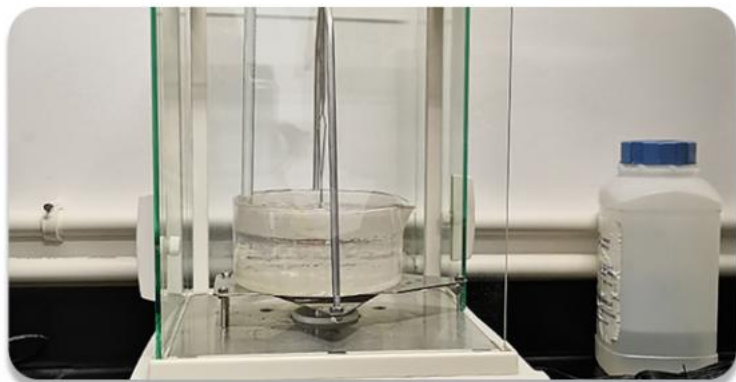
Spray Drying Tower



HIP Sintered Furnace



Shaping Machine



Density Tester



Hardness Tester



Metallurgical Microscope

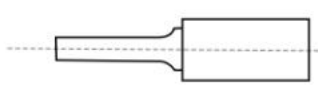

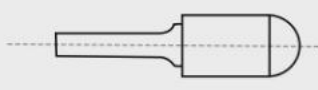

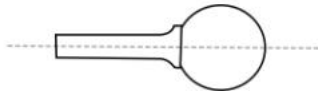

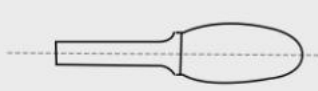

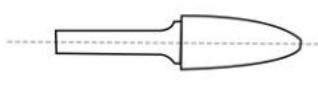

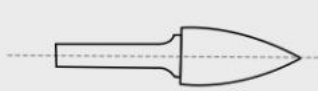

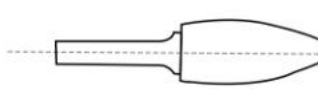













Cobalt Magnetic Tester

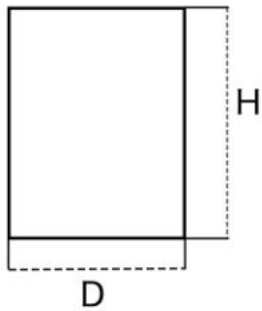
Grade	Co (%)	Grain size (μm)	Density (g/cm ³)	Hardness (HRA)	T.R.S (Mpa)
YG6X	6	Fine	14.9	92.0	1850
YG6A	6	Ultra-fine	15.0	93.0	2400
YG7	7	Medium	14.7	89.5	2800
YG10X	10	Fine	14.5	91.0	3800

Grade	Application Recommended
YG6X	Applicable to processing alloy chilled cast iron and heat-resistant alloy steel, also applicable to processing general cast iron and non-metallic materials.
YG6A	Applicable to finishing and semi-finishing of all kinds of cast iron and metal, it's excellent material to produce solid carbide hole machining tools.
YG7	Applicable to finishing and semi-finishing of cast iron, non-ferrous metals and non-ferrous alloy.
YG10X	Good wear resistance and high toughness, applicable to high performance industrial burs and dental burs.

A summary of carbide burr according to the available shapes

Shape	Type	Shape(Inch)	Finished product
	Cylindrical	SA	
	Cylindrical Round Nose	SC	
	Spherical	SD	
	Oval	SE	
	Arch Round Nose	SF	
	Arch Pointed Nose	SG	
	Flame	SH	
	60° Cone	SJ	
	90° Cone	SK	
	Conical Round Nose	SL	
	Conical Pointed Nose	SM	
	Inverted Cone	SN	

Suitable for manufacturing Burrs of Shape A - Cylindrical



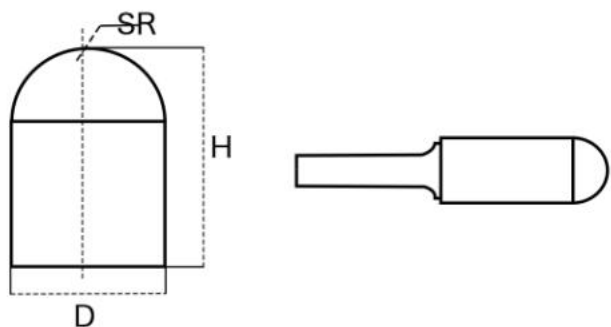
Size in Inch

Code	Basic dimensions (inch)	
	D	H
BSA-51	1/4	3/16
BSA-51	1/4	1/2
BSA-2	5/16	3/4
BSA-3	3/8	3/4
BSA-4	7/16	1
BSA-5	1/2	1
BSA-6	5/8	1
BSA-16	3/4	1/2
BSA-72	3/4	3/4
BSA-7	3/4	1
BSA-8	7/8	1
BSA-9	1	1

Size in Metric

Code	Basic dimensions (mm)	
	D	H
A0413	4.5	13.3
A0513	4.5	13.3
A0613	6.5	13.3
A0820	8.5	20.3
A1020	10.5	20.3
A1225	12.5	25.3
A1625	16.5	25.3
A2025	20.5	25.3

Suitable for manufacturing Burrs of Shape C - Cylindrical ball nose

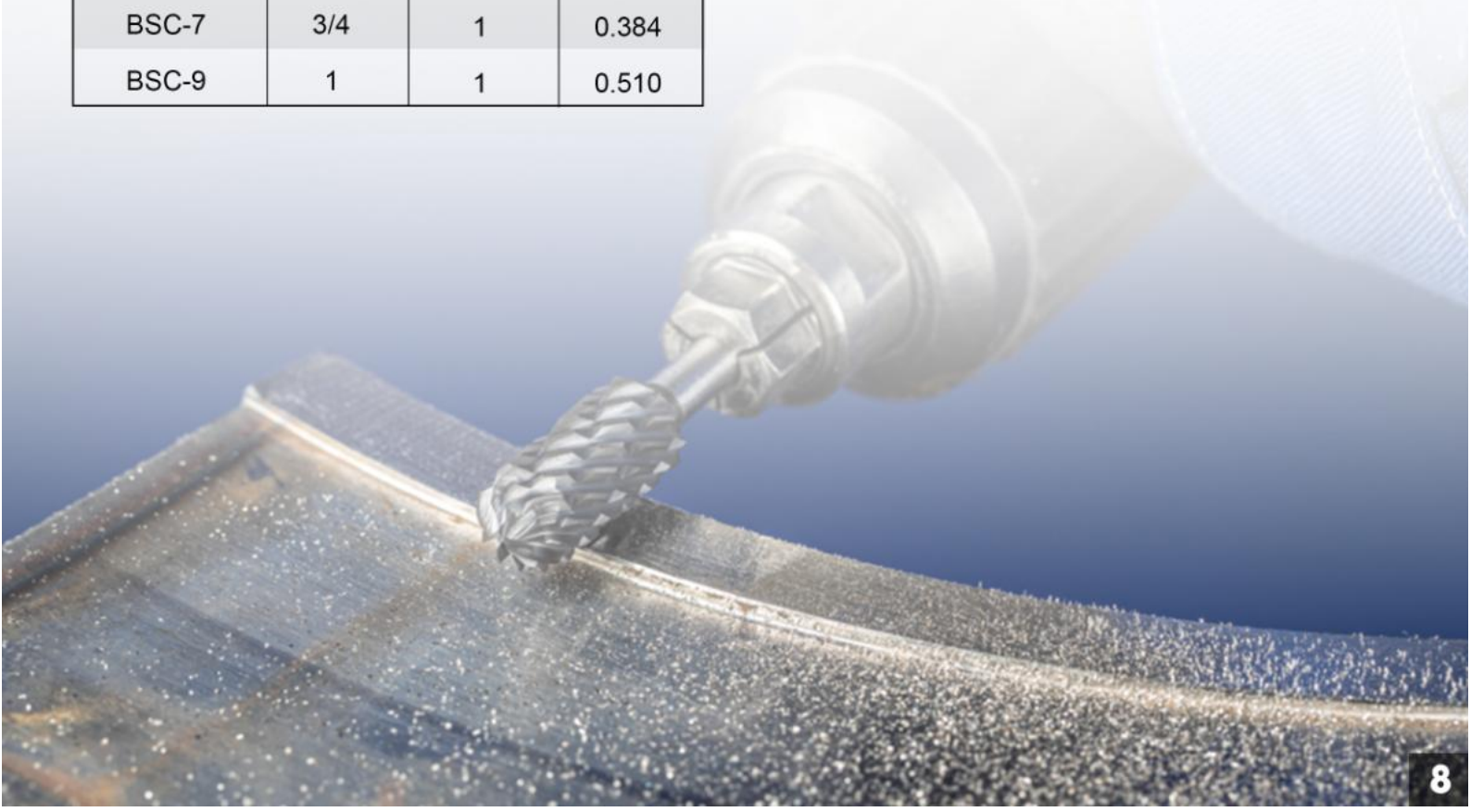


Size in Inch

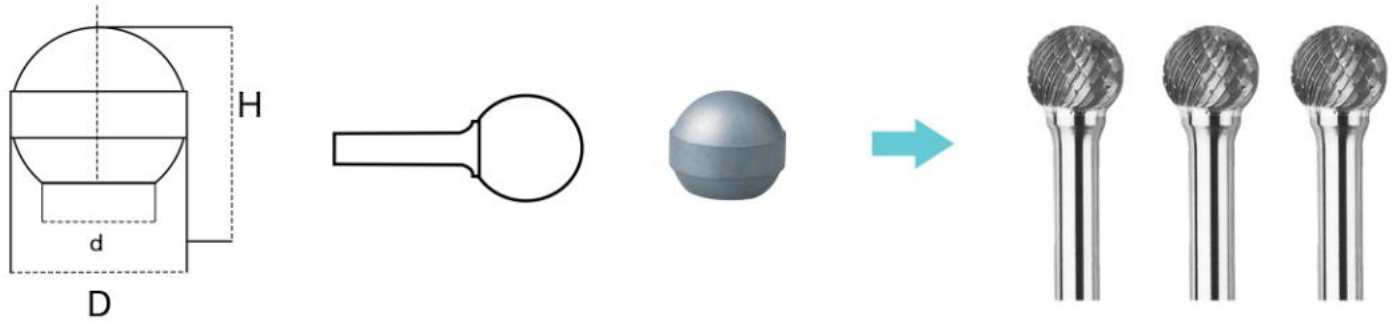
Code	Basic dimensions (inch)		
	D	H	SR
BSC-51	1/4	1/2	0.133
BSC-2	5/16	3/4	0.164
BSC-3	3/8	3/4	0.195
BSC-4	7/16	1	0.227
BSC-5	1/2	1	0.258
BSC-6	5/8	1	0.320
BSC-15	3/4	1/2	0.384
BSC-16	3/4	3/4	0.384
BSC-7	3/4	1	0.384
BSC-9	1	1	0.510

Size in Metric

Code	Basic dimensions (mm)		
	D	H	SR
C0413	4.5	13.3	2.25
C0513	5.5	13.3	2.75
C0613	6.5	13.3	3.25
C0820	8.5	20.3	4.25
C1020	10.5	20.3	5.25
C1255	12.5	25.3	6.25
C1625	16.5	25.3	8.25
C2025	20.5	25.3	10.25



Suitable for manufacturing Burrs of Shape D - Ball



Size in Inch

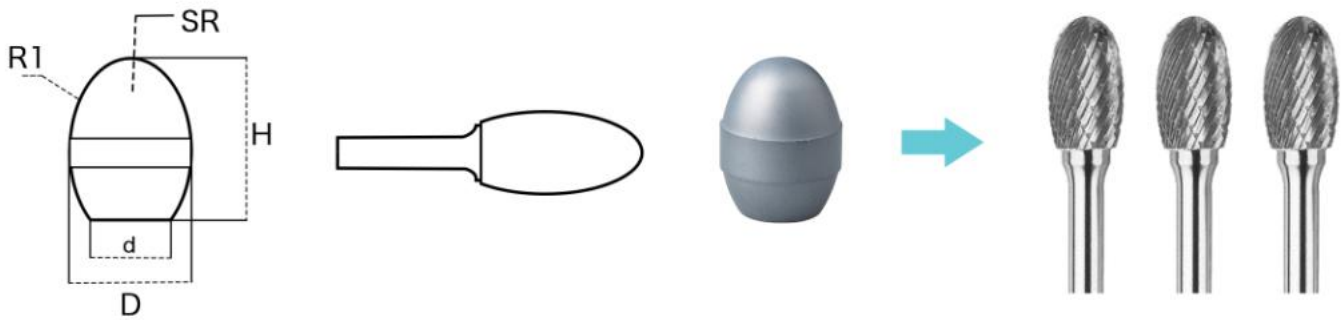
Code	Basic dimensions (inch)		
	D	H	d
BSD-51	1/4	0.220	0.188
BSD-2	5/16	0.276	0.226
BSD-3	3/8	0.332	0.265
BSD-4	7/16	0.392	0.297
BSD-5	1/2	0.450	0.329
BSD-6	5/8	0.568	0.390
BSD-7	3/4	0.686	0.390
BSD-9	1	0.924	0.578

Size in Metric

Code	Basic dimensions (mm)		
	D	H	d
D0403.6	4.5	3.9	2.4
D0504.5	5.5	4.8	3
D0605.4	6.5	6.8	3.6
D0807.2	8.5	8.8	4.8
D1009	10.5	10.8	6
D1210.8	12.5	11.1	7.2
D1614.4	16.5	16.8	9.6
D2018	20.5	18.3	12



Suitable for manufacturing Burrs of Shape E - Oval



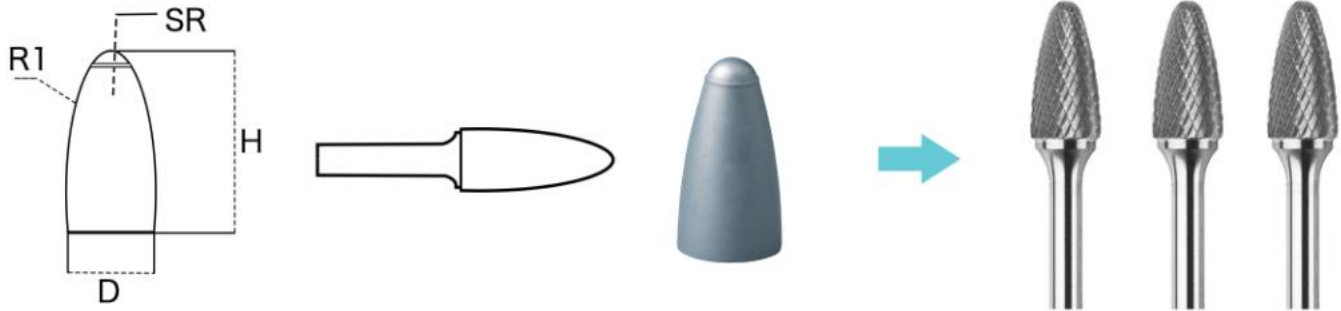
Size in Inch

Code	Basic dimensions (inch)				
	D	H	d	R1	SR
BSE-51	1/4	3/8	0.216	0.427	0.099
BSE-3	3/8	5/8	0.311	0.880	0.161
BSE-5	1/2	7/8	0.406	1.255	0.208
BSE-6	5/8	1	0.507	1.255	0.255
BSE-7	3/4	1	0.495	0.802	0.318

Size in Metric

Code	Basic dimensions (mm)				
	D	H	d	R1	SR
E0408	4.5	8.3	3	15	1.8
E0509	5.5	9.3	4	15	2.2
E0610	6.5	10.3	4.3	15	2.8
E0813	8.5	13.3	6	20	3.7
E1016	10.5	16.3	9	28	4
E1220	12.5	20.3	9.8	30	5
E1625	16.5	25.3	13.9	38	6.5
E2025	20.5	25.3	18.8	40	8.5

Suitable for manufacturing Burrs of Shape F - Tree with radius end



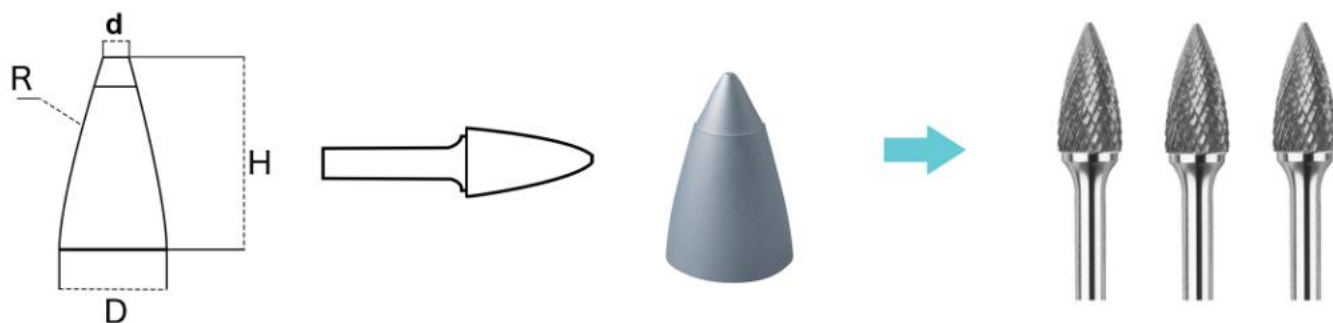
Size in Inch

Code	Basic dimensions (inch)			
	D	H	R1	SR
BSF-51	1/4	1/2	1.630	0.068
BSF-3	3/8	3/4	2.300	0.098
BSF-4	7/16	1	3.255	0.098
BSF-13	1/2	3/4	1.760	0.130
BSF-5	12	1	3.255	0.130
BSF-6	5/8	1	3.005	0.194
BSF-7	3/4	1	2.130	0.194
BSF-14	3/4	1 1/4	3.319	0.194
BSF-15	3/4	1 1/2	5.069	0.194

Size in Metric

Code	Basic dimensions (mm)			
	D	H	R1	SR
F0413	4.5	13.3	35	1
F0613	6.5	13.3	43	1.4
F0818	8.5	18.3	50	2
F1020	10.5	20.3	60	2.5
F1225	12.5	25.3	65	2.5
F1230	12.5	30.3	70	2.7
F1630	16.5	30.3	70	3.6
F2030	20.5	30.3	90	5

Suitable for manufacturing Burrs of Shape G - Tree with pointed end



Size in Inch

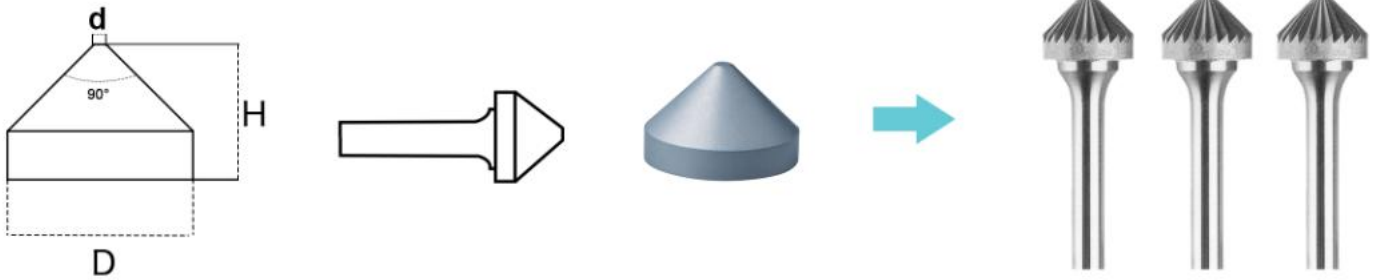
Code	Basic dimensions (inch)			
	D	H	d	R
BSG-51	1/4	1/2	0.042	1.005
BSG-2	5/16	3/4	0.055	2.005
BSG-3	3/8	3/4	0.056	1.505
BSG-13	1/2	3/4	0.073	1.318
BSG-5	1/2	1	0.073	2.255
BSG-6	5/8	1	0.073	1.880
BSG-7	3/4	1	0.075	1.631
BSG-15	3/4	1 1/2	0.088	3.505

Size in Metric

Code	Basic dimensions (mm)			
	D	H	d	R
G0413	4.5	13.3	0.4	26
G0513	5.5	13.3	0.5	30
G0613	6.5	18.3	0.5	31
G0820	8.5	20.3	0.5	31
G1020	10.5	20.3	0.7	39
G1225	12.5	25.3	1	48
G1630	16.5	30.3	1.5	52
G2030	20.5	30.3	2	55

Shape K - 90° Conical

Suitable for manufacturing Burrs of Shape K - 90° Conical

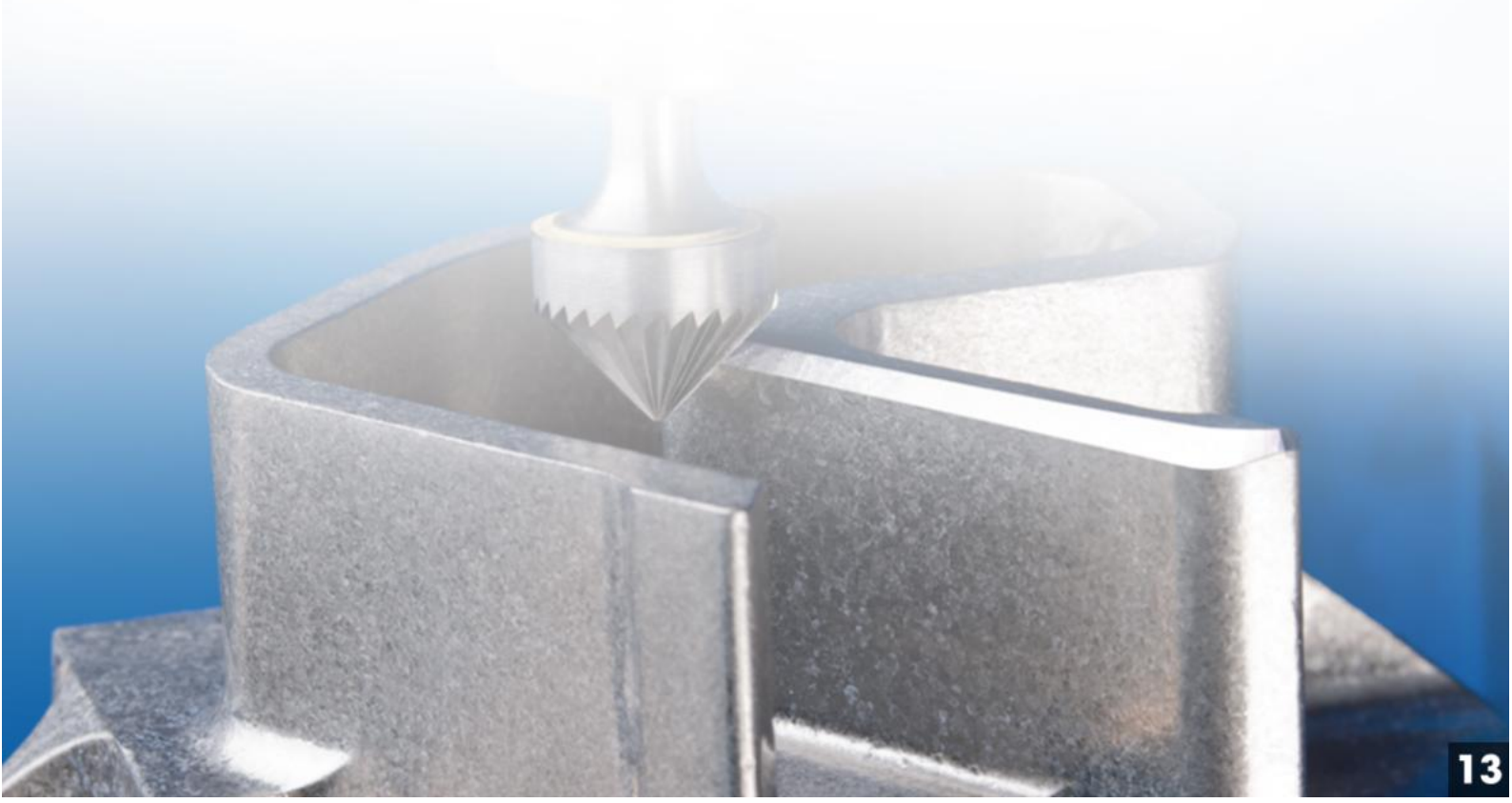


Size in Inch

Code	Basic dimensions (inch)		
	D	H	d
BSK-3	3/8	5/16	0.032
BSK-5	1/2	3/8	0.032
BSK-6	5/8	31/64	0.063
BSK-7	3/4	35/64	0.063
BSK-9	1	41/64	0.125

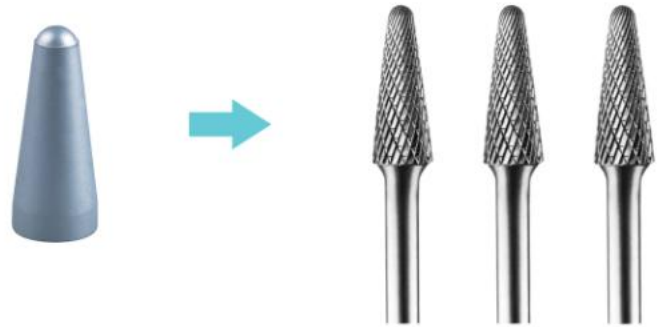
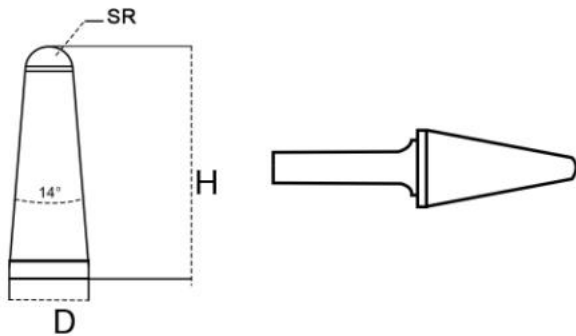
Size in Metric

Code	Basic dimensions (mm)		
	D	H	d
K0504	5.5	4.3	0.4
K0605	6.5	5.3	0.5
K0808	8.5	8.3	0.5
K1010	10.5	10.3	0.7
K1212	12.5	12.3	1
K1613	16.5	13.3	1.5
K2020	20.5	20.3	2



Shape L - 14 Taper radius end

Suitable for manufacturing Burrs of Shape L - 14° Taper radius end



Size in Inch

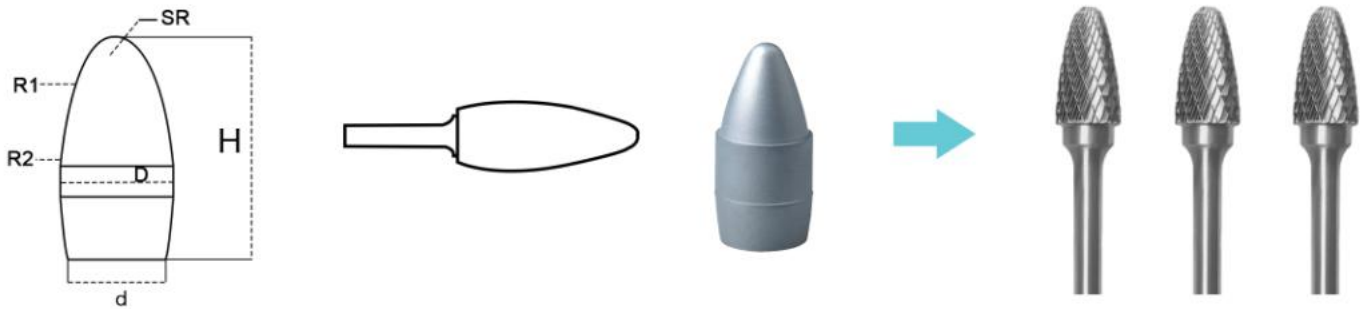
Code	Basic dimensions (inch)		
	D	H	SR
BSL-2	5/16	1	0.055
BSL-3	3/8	1 3/16	0.065
BSL-4	1/2	1 1/4	0.126
BSL-5	5/8	1 4/16	0.188
BSL-6	5/8	1 7/16	0.171
BSL-7	3/4	1 5/8	0.216

Size in Metric

Code	Basic dimensions (mm)		
	D	H	SR
L0413	45	13.3	0.5
L0513	5.5	13.3	0.8
L0613	65	18.3	12
L0820	8.5	20.3	1.4
L1020	10.5	20.3	2.9
L1225	12.5	25.3	3.3
L1230	16.5	30.3	3.3
L1630	20.5	30.3	4.8



Suitable for manufacturing Burrs of Shape H - Flame

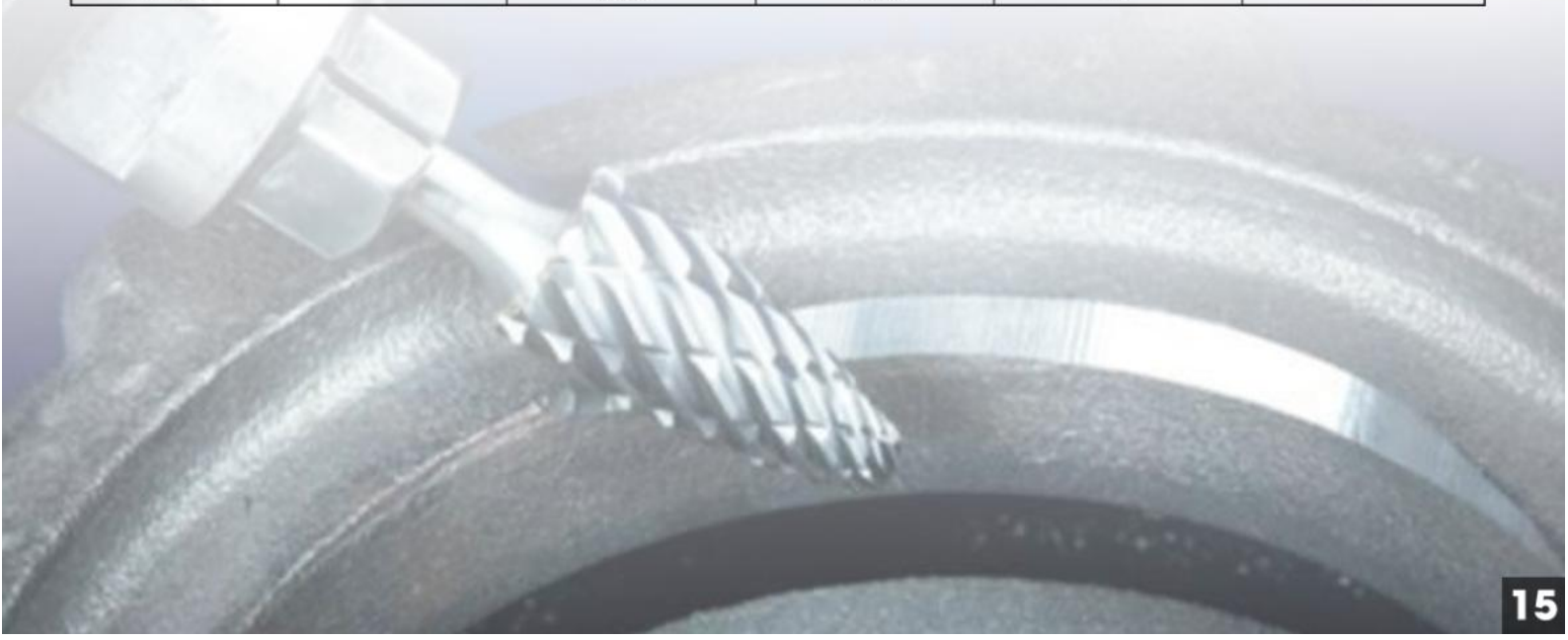


Size in Inch

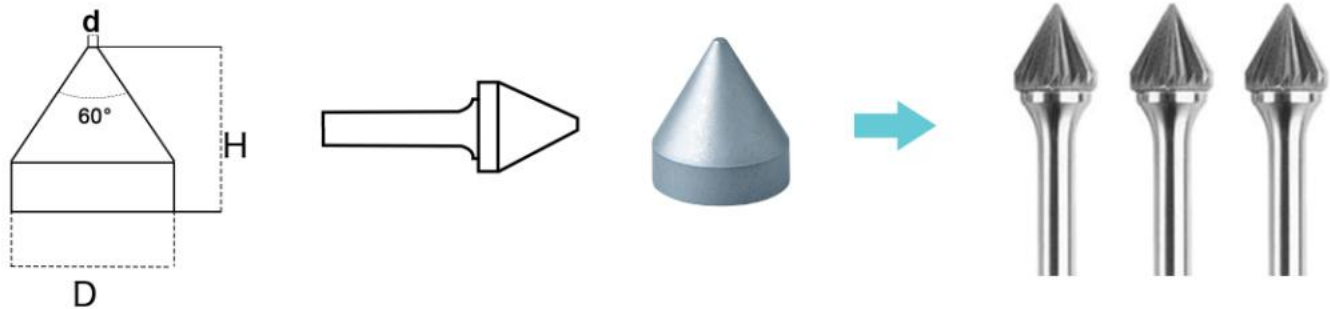
Code	Basic dimensions (inch)					
	D	H	d	R2	SR	R1
BSH-2	5/16	3/4	0.257	1.068	0.068	/
BSH-5	1/2	1 1/4	0.431	2.005	0.099	/
BSH-6	5/8	1 7/16	0.495	2.255	0.099	0.775
BSH-7	3/4	1 5/8	0.548	1.881	0.162	/

Size in Metric

Code	Basic dimensions (mm)					
	D	H	d	R2	SR	
H0820	8.5	20.3	5.8	26	1.3	
H1025	10.5	25.3	7.5	33	1.5	
H1230	12.5	30.3	8.9	40	2	
H1623	16.5	32.3	13.9	47	4	



Suitable for manufacturing Burrs of Shape J - 60° Conical



Size in Inch

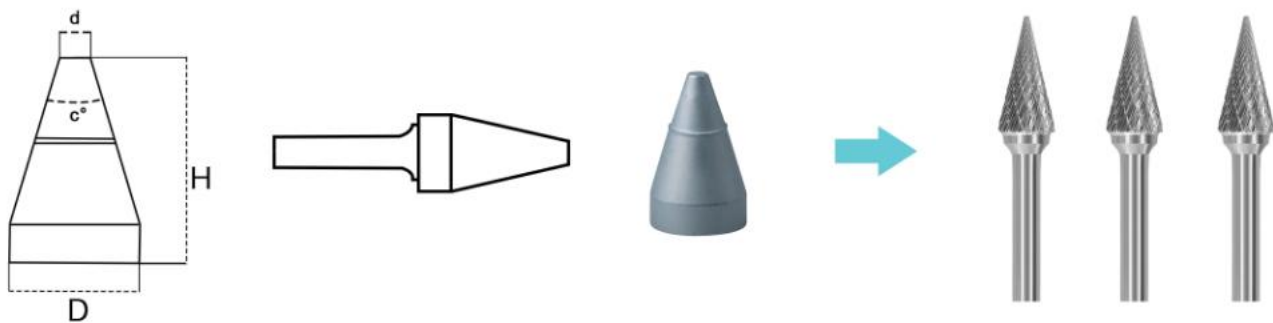
Code	Basic dimensions (inch)		
	D	H	d
BSJ-3	3/8	7/16	0.032
BSJ-5	1/2	35/64	0.032
BSJ-6	5/8	11/16	0.063
BSJ-7	3/4	51/64	0.063
BSJ-9	1	31/32	0.125

Size in Metric

Code	Basic dimensions (mm)		
	D	H	d
J0606	6.5	6.3	0.5
J0808	8.5	8.3	0.5
J1013	10.5	13.3	0.7
J1212	12.5	12.3	1
J1616	16.5	16.3	1.5
J2020	20.5	20.3	2



Suitable for manufacturing Burrs of Shape M - Conical



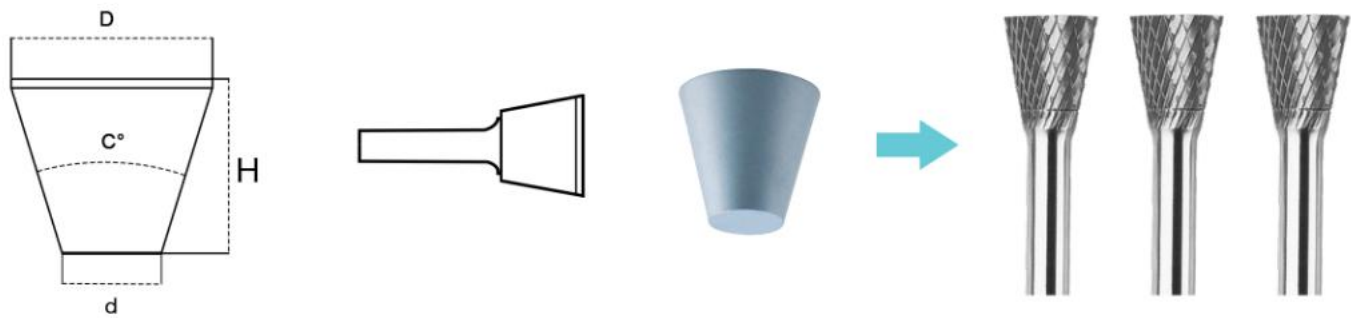
Size in Inch

Code	Basic dimensions (inch)			
	D	H	d	C°
BSM-51	1/4	5/8	0.065	22
BSM-4	3/8	3/4	0.073	28
BSM-5	1/2	1	0.073	28
BSM-6	5/8	1/8	0.080	31

Size in Metric

Code	Basic dimensions (mm)			
	D	H	d	C°
M0411	4.5	11.3	0.4	22.6
M0511	5.5	11.6	0.5	28
M0613	6.5	13.3	0.5	28
M0818	8.5	18.3	0.5	26.4
M1020	10.5	20.3	0.7	29
M1225	12.5	25.3	1	36.8
M1625	16.5	25.3	1.5	35
M2025	20.5	25.3	2	42.8

Suitable for manufacturing Burrs of Shape N - Inverted cone



Size in Inch

Code	Basic dimensions (inch)			
	D	H	d	C°
BSN-51	1/4	1/4	0.221	10
BSN-2	3/8	3/8	0.305	13
BSN-3	1/2	1/2	0.374	16
BSN-4	1/2	1/2	0.266	28
BSN-5	5/8	5/8	0.431	19
BSN-6	5/8	3/4	0.403	18
BSN-7	3/4	5/8	0.432	30

Size in Metric

Code	Basic dimensions (mm)			
	D	H	d	C°
N0407	45	7.3	2.8	10
N0507	5.5	7.3	3.8	10
N0607	6.5	7.3	4.8	10
N0813	85	13.3	5.7	10
N1013	10.5	13.3	7.7	10
N1213	12.5	13.3	7.4	20



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