

morrisflex



Product Catalogue

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morrisflex is an internationally renowned brand of high quality carbide burs and forms a key part of ATA Group, a privately owned organisation with over 50 years experience in the supply of metal removal solutions to all major industrial sectors.

We are committed to providing our customers with high performance products that maximise productivity and reduce costs. Our head office and global production centre based in Cavan, Ireland, is accredited to ISO9001:2008 and is equipped with the latest CNC technology delivering product of unrivalled quality and consistency.

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Wear Eye Protection!



Wear Hearing Protection!



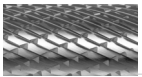
Observe the recommended rotational speed, especially when using burs with long shanks!



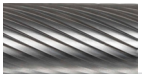
Wear Protective Gloves

Cut Selection Guide

Standard Cut Types



Cut 6 - Double cut for general purpose use. Improves control and reduces chips

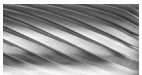


Cut 2 - Standard cut for general applications

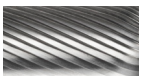


Cut 3 - Fast Mill cut for rapid stock removal of softer non-ferrous materials including plastics

Special Cut Types



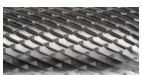
Cut 1 - Coarse cut for metal removal and finishing applications on non-ferrous metal alloys



Cut 4 - Fine cut for improved finish on all ferrous metals



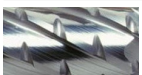
Cut 5 - Foundry cut for maximum stock removal, rough edges and foundry applications



Cut 8 - Diamond cut for hardest materials and best finishes



Cut 9 - Chipbreaker cut for fast stock removal. Improves control and surface finish



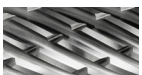
Cut 10 - Fast Mill cut with chipbreaker for rapid stock removal



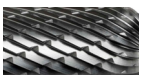
AS Cut - Alloy specific cut suitable for Ni-Alloys & Ti-Alloys



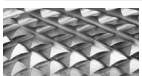
Inox Cut - High performance grinding on stainless steel applications



Steel Cut - Aggressive cutting form for increased stock removal



Base Metal - Rapid stock removal on soft ferrous materials

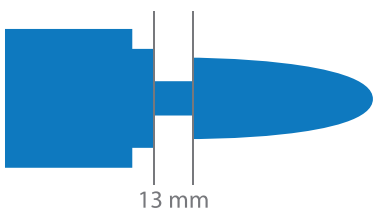
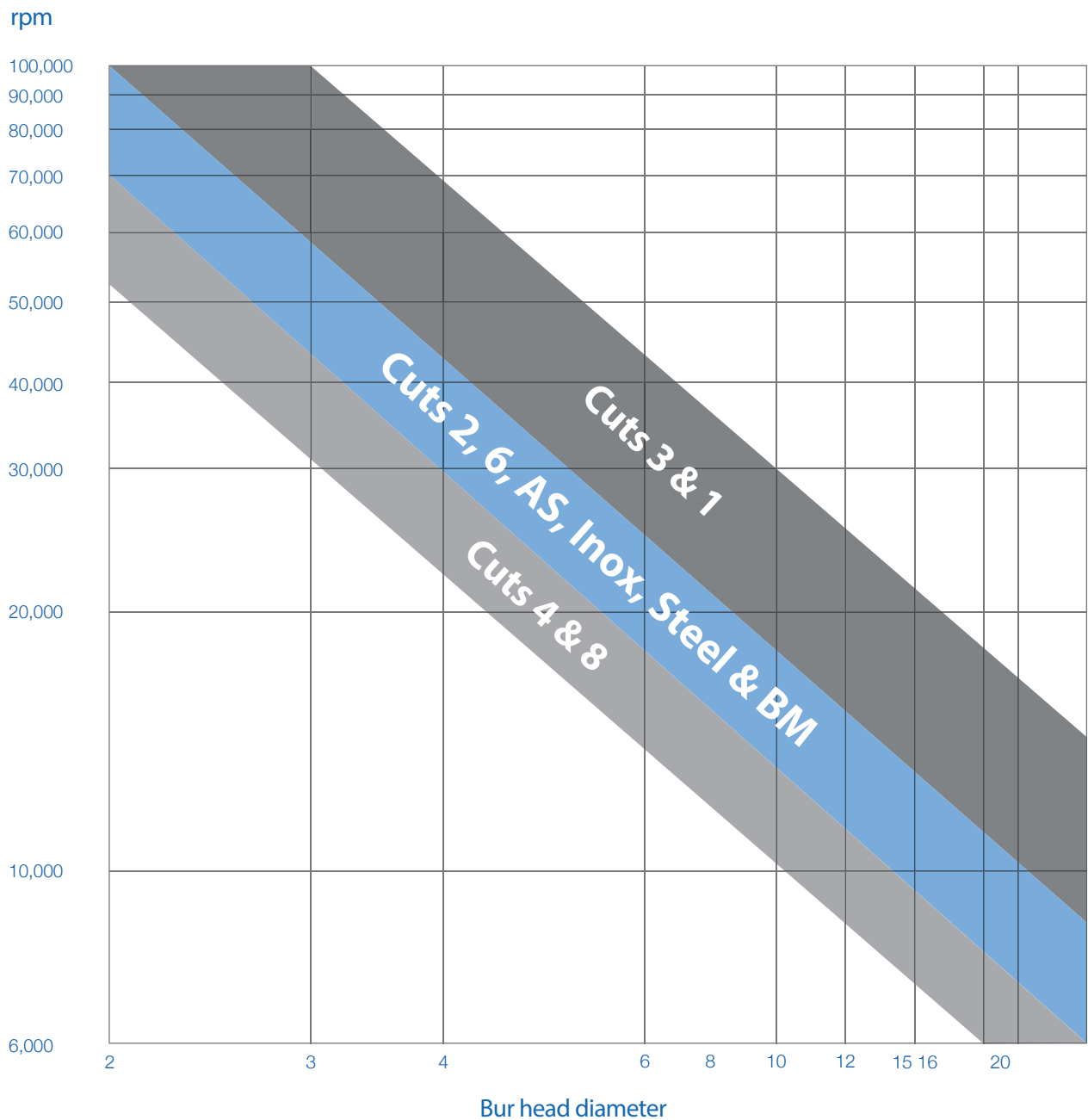


FGR Cut - For use on phenolics, fiberglass and hard non-metallic materials

Material	Standard Cut Types			Special Cut Types										
	Cut 6	Cut 2	Cut 3	Cut 1	Cut 4	Cut 5	Cut 8	Cut 9	Cut 10	AS Cut	Inox Cut	Steel Cut	BM Cut	FGR Cut
Aluminum, Plastic			●						○					
Brass, Copper, Cast Iron, Bronze	●	●		○	○	●	○	○					●	
Unhardened Steels	●	●			○	●	○					○		
Hardened Steels	●	●			●	○	●	○				●	●	
Stainless Steels, Nimonic Alloys, Titanium	●	●			●	○	●	○		●	●			
Fiberglass														●

○ Recommended ● Highly Recommended

Recommended Operating Speeds



WARNING: These are recommended speeds for Standard Length Burs with 13 mm maximum overhang. Maximum recommended operating speeds for extended length shanks is 15,000rpm.

Due to the international spread of our customers each of our burs are listed in 3 cuts. These cuts are equivalent to the UK & European ISO Standard, the USA Standard & the DIN Standard.

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Standard Bur Range

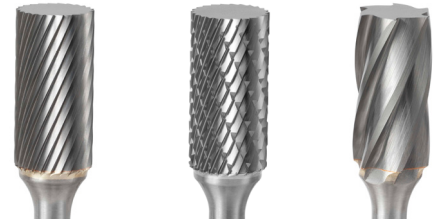
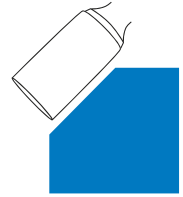
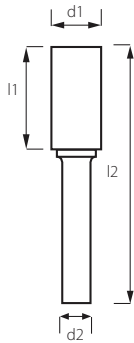
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Cylinder without Endcut

Shape: A, ZYA, SA



3mm shank

Dimensions - All in mm

d1	l1	d2	l2	Type
1.5	6.0	3.0	38.0	Solid
2.0	11.0	3.0	38.0	Solid
2.5	12.0	3.0	38.0	Solid
3.0	14.0	3.0	38.0	Solid
5.0	12.7	3.0	38.0	Solid
6.3	4.7	3.0	37.0	Solid
6.3	12.7	3.0	45.0	Brazed

Part Numbers

Cut 2	Cut 6	Cut 3
KA31.506-2	KA31.506-6	-
KA30211-2	KA30211-6	-
KA32.512-2	KA32.512-6	-
KA30314-2	KA30314-6	KA30314-3
KA30512-2	KA30512-6	-
KA30605-2	KA30605-6	-
KA30612-2	KA30612-6	KA30612-3

6mm shank

Dimensions - All in mm

d1	l1	d2	l2	Type
3.0	14.0	6.0	50.0	Solid
4.0	14.0	6.0	50.0	Solid
5.0	16.0	6.0	50.0	Solid
6.0	18.0	6.0	50.0	Solid
6.0	25.0	6.0	50.0	Solid
8.0	19.0	6.0	64.0	Brazed
9.6	13.5	6.0	59.0	Brazed
9.6	19.0	6.0	64.0	Brazed
9.6	25.0	6.0	70.0	Brazed
11.0	25.0	6.0	70.0	Brazed
12.7	19.0	6.0	64.0	Brazed
12.7	25.0	6.0	70.0	Brazed
16.0	25.0	6.0	70.0	Brazed
19.0	25.0	6.0	70.0	Brazed
25.0	25.0	6.0	70.0	Brazed

Part Numbers

Cut 2	Cut 6	Cut 3
KA60312-2	KA60312-6	-
KA60413-2	KA60413-6	-
KA60516-2	KA60516-6	-
KA60618-2	KA60618-6	KA60618-3
KA60625-2	KA60625-6	-
KA60820-2	KA60820-6	KA60820-3
KA61014-2	KA61014-6	-
KA61020-2	KA61020-6	KA61020-3
KA61025-2	KA61025-6	-
KA61125-2	KA61125-6	-
KA61220-2	KA61220-6	-
KA61224-2	KA61224-6	KA61224-3
KA61525-2	KA61525-6	KA61525-3
KA62025-2	KA62025-6	KA62025-3
KA62525-2	KA62525-6	KA62525-3

8mm shank

Dimensions - All in mm

d1	l1	d2	l2	Type
12.7	25.0	8.0	70.0	Brazed
16.0	25.0	8.0	70.0	Brazed
19.0	25.0	8.0	70.0	Brazed
25.0	25.0	8.0	70.0	Brazed

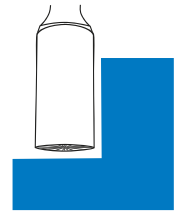
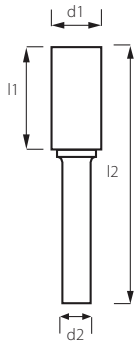
Part Numbers

Cut 2	Cut 6	Cut 3
KA81225-2	KA81225-6	KA81225-3
KA81525-2	KA81525-6	KA81525-3
KA82025-2	KA82025-6	KA82025-3
KA82525-2	KA82525-6	KA82525-3



Cylinder with Endcut

Shape: B, ZYAS, SB



3mm shank

Dimensions - All in mm

d1	l1	d2	l2	Type
1.5	6.0	3.0	38.0	Solid
2.0	11.0	3.0	38.0	Solid
2.5	12.0	3.0	38.0	Solid
3.0	14.0	3.0	38.0	Solid
5.0	12.7	3.0	38.0	Solid
6.3	4.7	3.0	37.0	Brazed
6.3	12.7	3.0	45.0	Brazed

Part Numbers

Cut 2	Cut 6	Cut 3
KB31.506-2	KB31.506-6	-
KB30211-2	KB30211-6	-
KB32.512-2	KB32.512-6	-
KB30314-2	KB30314-6	KB30314-3
KB30512-2	KB30512-6	-
KB30605-2	KB30605-6	-
KB30612-2	KB30612-6	KB30612-3

6mm shank

Dimensions - All in mm

d1	l1	d2	l2	Type
3.0	14.0	6.0	50.0	Solid
4.0	14.0	6.0	50.0	Solid
5.0	16.0	6.0	50.0	Solid
6.0	18.0	6.0	50.0	Solid
6.0	25.0	6.0	50.0	Solid
8.0	19.0	6.0	64.0	Brazed
9.6	13.5	6.0	59.0	Brazed
9.6	19.0	6.0	64.0	Brazed
9.6	25.0	6.0	70.0	Brazed
11.0	25.0	6.0	70.0	Brazed
12.7	19.0	6.0	64.0	Brazed
12.7	25.0	6.0	70.0	Brazed
16.0	25.0	6.0	70.0	Brazed
19.0	25.0	6.0	70.0	Brazed
25.0	25.0	6.0	70.0	Brazed

Part Numbers

Cut 2	Cut 6	Cut 3
KB60312-2	KB60312-6	-
KB60413-2	KB60413-6	-
KB60516-2	KB60516-6	-
KB60618-2	KB60618-6	KB60618-3
KB60625-2	KB60625-6	-
KB60820-2	KB60820-6	KB60820-3
KB61014-2	KB61014-6	-
KB61020-2	KB61020-6	KB61020-3
KB61025-2	KB61025-6	-
KB61125-2	KB61125-6	-
KB61220-2	KB61220-6	-
KB61225-2	KB61225-6	KB61225-3
KB61525-2	KB61525-6	KB61525-3
KB62025-2	KB62025-6	KB62025-3
KB62525-2	KB62525-6	KB62525-3

8mm shank

Dimensions - All in mm

d1	l1	d2	l2	Type
12.7	25.0	8.0	70.0	Brazed
16.0	25.0	8.0	70.0	Brazed
19.0	25.0	8.0	70.0	Brazed
25.0	25.0	8.0	70.0	Brazed

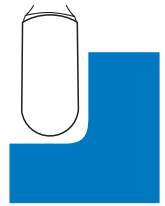
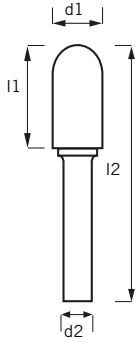
Part Numbers

Cut 2	Cut 6	Cut 3
KB81225-2	KB81225-6	KB81225-3
KB81525-2	KB81525-6	KB81525-3
KB82025-2	KB82025-6	KB82025-3
KB82525-2	KB82525-6	KB82525-3



Ball Nosed Cylinder

Shape: C, WRC, SC



3mm
shank

Dimensions - All in mm

d1	l1	d2	l2	Type
2.0	11.0	3.0	38.0	Solid
2.5	11.0	3.0	38.0	Solid
3.0	14.0	3.0	38.0	Solid
5.0	12.7	3.0	38.0	Solid
6.3	12.7	3.0	45.0	Brazed

Part Numbers

Cut 2	Cut 6	Cut 3
KC30211-2	KC30211-6	-
KC32.511-2	KC32.511-6	-
KC30312-2	KC30312-6	KC30312-3
KC30512-2	KC30512-6	-
KC30612-2	KC30612-6	KC30612-3

6mm
shank

Dimensions - All in mm

d1	l1	d2	l2	Type
3.0	14.0	6.0	50.0	Solid
4.0	14.0	6.0	50.0	Solid
5.0	16.0	6.0	50.0	Solid
6.0	18.0	6.0	50.0	Solid
6.0	25.0	6.0	50.0	Solid
8.0	19.0	6.0	64.0	Brazed
9.6	19.0	6.0	64.0	Brazed
9.6	25.0	6.0	70.0	Brazed
9.6	25.0	6.0	70.0	Brazed
11.0	10.0	6.0	54.0	Brazed
12.7	19.0	6.0	64.0	Brazed
12.7	25.0	6.0	70.0	Brazed
16.0	25.0	6.0	70.0	Brazed
19.0	25.0	6.0	70.0	Brazed
25.0	25.0	6.0	70.0	Brazed

Part Numbers

Cut 2	Cut 6	Cut 3
KC60312-2	KC60312-6	-
KC60413-2	KC60413-6	-
KC60516-2	KC60516-6	-
KC60618-2	KC60618-6	KC60618-3
KC60625-2	KC60625-6	-
KC60820-2	KC60820-6	KC60820-3
KC61020-2	KC61020-6	KC61020-3
KC61025-2	KC61025-6	-
KC61125-2	KC61125-6	-
KC61210-2	KC61210-6	-
KC61220-2	KC61220-6	KC61220-3
KC61225-2	KC61225-6	KC61225-3
KC61525-2	KC61525-6	KC61525-3
KC62025-2	KC62025-6	KC62025-3
KC62525-2	KC62525-6	-

8mm
shank

Dimensions - All in mm

d1	l1	d2	l2	Type
12.7	25.0	8.0	70.0	Brazed
16.0	25.0	8.0	70.0	Brazed
19.0	25.0	8.0	70.0	Brazed
25.0	25.0	8.0	70.0	Brazed

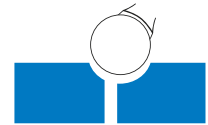
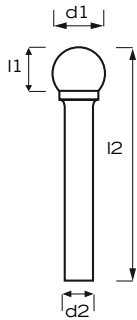
Part Numbers

Cut 2	Cut 6	Cut 3
KC81225-2	KC81225-6	KC81225-3
KC81525-2	KC81525-6	KC81525-3
KC82025-2	KC82025-6	KC82025-3
KC82525-2	KC82525-6	-



Ball

Shape: D, KUD, SD



3mm shank

Dimensions - All in mm					Part Numbers		
d1	l1	d2	l2	Type	Cut 2	Cut 6	Cut 3
2.0	1.8	3.0	38.0	Solid	KD30202-2	KD30202-6	-
2.5	2.3	3.0	38.0	Solid	KD32.52.5-2	KD32.52.5-6	-
3.0	2.5	3.0	38.0	Solid	KD30303-2	KD30303-6	KD30303-3
4.0	3.4	3.0	38.0	Solid	KD30404-2	KD30404-6	KD30404-3
5.0	4.7	3.0	38.0	Solid	KD30505-2	KD30505-6	-
6.3	5.0	3.0	38.0	Brazed	KD30606-2	KD30606-6	KD30606-3

6mm shank

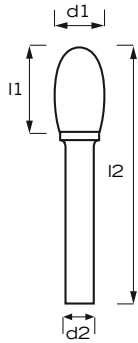
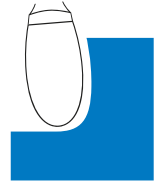
Dimensions - All in mm					Part Numbers		
d1	l1	d2	l2	Type	Cut 2	Cut 6	Cut 3
3.0	2.5	6.0	50.0	Solid	KD60303-2	KD60303-6	-
4.0	3.0	6.0	50.0	Solid	KD60404-2	KD60404-6	-
5.0	4.0	6.0	50.0	Solid	KD60505-2	KD60505-6	-
6.0	4.7	6.0	50.0	Solid	KD60606-2	KD60606-6	KD60606-3
8.0	6.0	6.0	52.0	Brazed	KD60808-2	KD60808-6	KD60808-3
9.6	8.0	6.0	54.0	Brazed	KD61010-2	KD61010-6	KD61010-3
11.0	9.5	6.0	55.0	Brazed	KD61111-2	KD61111-6	-
12.7	11.0	6.0	56.0	Brazed	KD61212-2	KD61212-6	KD61212-3
16.0	14.0	6.0	59.0	Brazed	KD61515-2	KD61515-6	KD61515-3
19.0	16.5	6.0	62.0	Brazed	KD62020-2	KD62020-6	KD62020-3
25.0	22.0	6.0	67.0	Brazed	KD62525-2	KD62525-6	KD62525-3

8mm shank

Dimensions - All in mm					Part Numbers		
d1	l1	d2	l2	Type	Cut 2	Cut 6	Cut 3
12.7	11.0	8.0	56.0	Brazed	KD81212-2	KD81212-6	KD81212-3
16.0	14.0	8.0	59.0	Brazed	KD81515-2	KD81515-6	KD81515-3
19.0	16.5	8.0	62.0	Brazed	KD82020-2	KD82020-6	KD82020-3
25.0	22.0	8.0	67.0	Brazed	KD82525-2	KD82525-6	KD82525-3

Oval

Shape: E, TRE, SE



3mm shank

Dimensions - All in mm					Part Numbers		
d1	l1	d2	l2	Type	Cut 2	Cut 6	Cut 3
3.0	6.0	3.0	38.0	Solid	KE30306-2	KE30306-6	KE30306-3
5.0	8.0	3.0	38.0	Solid	KE30508-2	KE30508-6	-
6.3	9.5	3.0	42.0	Brazed	KE30610-2	KE30610-6	KE30610-3

6mm shank

Dimensions - All in mm					Part Numbers		
d1	l1	d2	l2	Type	Cut 2	Cut 6	Cut 3
6.0	10.0	6.0	50.0	Solid	KE60610-2	KE60610-6	KE60610-3
8.0	15.0	6.0	60.0	Brazed	KE60815-2	KE60815-6	KE60815-3
9.6	16.0	6.0	60.0	Brazed	KE61015-2	KE61015-6	KE61015-3
12.7	22.0	6.0	67.0	Brazed	KE61220-2	KE61220-6	KE61220-3
16.0	25.0	6.0	70.0	Brazed	KE61525-2	KE61525-6	KE61525-3
19.0	25.0	6.0	70.0	Brazed	KE62025-2	KE62025-6	KE62025-3

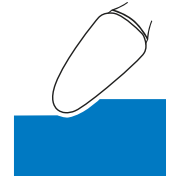
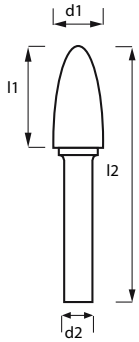
8mm shank

Dimensions - All in mm					Part Numbers		
d1	l1	d2	l2	Type	Cut 2	Cut 6	Cut 3
12.7	22.0	8.0	67.0	Brazed	KE81220-2	KE81220-6	KE81220-3
16.0	25.0	8.0	70.0	Brazed	KE81525-2	KE81525-6	KE81525-3
19.0	25.0	8.0	70.0	Brazed	KE82025-2	KE82025-6	KE82025-3



Ball Nosed Tree

Shape: F, RBF, SF



3mm
shank

Dimensions - All in mm

d1	l1	d2	l2	Type
3.0	6.0	3.0	38.0	Solid
3.0	8.0	3.0	38.0	Solid
3.0	14.0	3.0	38.0	Solid
5.0	12.7	3.0	38.0	Solid
6.3	12.7	3.0	45.0	Brazed

Part Numbers

Cut 2	Cut 6	Cut 3
KF30306-2	KF30306-6	-
KF30308-2	KF30308-6	-
KF30312-2	KF30312-6	KF30312-3
KF30512-2	KF30512-6	-
KF30612-2	KF30612-6	KF30612-3

6mm
shank

Dimensions - All in mm

d1	l1	d2	l2	Type
6.0	18.0	6.0	50.0	Solid
8.0	20.0	6.0	65.0	Brazed
9.6	19.0	6.0	64.0	Brazed
11.0	25.0	6.0	70.0	Brazed
12.7	19.0	6.0	64.0	Brazed
12.7	25.0	6.0	70.0	Brazed
16.0	25.0	6.0	70.0	Brazed
16.0	30.0	6.0	75.0	Brazed
19.0	25.0	6.0	70.0	Brazed
19.0	32.0	6.0	77.0	Brazed
19.0	38.0	6.0	83.0	Brazed

Part Numbers

Cut 2	Cut 6	Cut 3
KF60618-2	KF60618-6	KF60618-3
KF60820-2	KF60820-6	KF60820-3
KF61020-2	KF61020-6	KF61020-3
KF61125-2	KF61125-6	-
KF61220-2	KF61220-6	-
KF61225-2	KF61225-6	KF61225-3
KF61525-2	KF61525-6	KF61525-3
KF61530-2	KF61530-6	-
KF62025-2	KF62025-6	KF62025-3
KF62032-2	KF62032-6	KF62032-3
KF62038-2	KF62038-6	KF62038-3

8mm
shank

Dimensions - All in mm

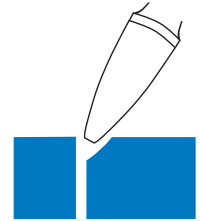
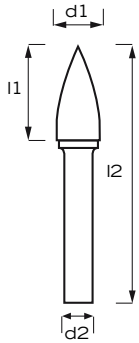
d1	l1	d2	l2	Type
12.7	25.0	8.0	70.0	Brazed
16.0	25.0	8.0	70.0	Brazed
19.0	25.0	8.0	70.0	Brazed
19.0	32.0	8.0	77.0	Brazed
19.0	38.0	8.0	83.0	Brazed

Part Numbers

Cut 2	Cut 6	Cut 3
KF81225-2	KF81225-6	KF81225-3
KF81525-2	KF81525-6	KF81525-3
KF82025-2	KF82025-6	KF82025-3
KF82032-2	KF82032-6	KF82032-3
KF82038-2	KF82038-6	KF82038-3

Pointed Tree

Shape: G, SPG, SG



3mm shank

Dimensions - All in mm

d1	l1	d2	l2	Type
3.0	6.0	3.0	38.0	Solid
3.0	10.0	3.0	38.0	Solid
3.0	14.0	3.0	38.0	Solid
5.0	12.7	3.0	38.0	Solid
6.3	12.7	3.0	45.0	Brazed

Part Numbers

Cut 2	Cut 6	Cut 3
KG30306-2	KG30306-6	-
KG30310-2	KG30310-6	-
KG30312-2	KG30312-6	KG30312-3
KG30512-2	KG30512-6	-
KG30612-2	KG30612-6	KG30612-3

6mm shank

Dimensions - All in mm

d1	l1	d2	l2	Type
6.0	18.0	6.0	50.0	Solid
8.0	19.0	6.0	64.0	Brazed
9.6	19.0	6.0	64.0	Brazed
12.7	19.0	6.0	64.0	Brazed
12.7	25.0	6.0	70.0	Brazed
12.7	30.0	6.0	75.0	Brazed
16.0	25.0	6.0	70.0	Brazed
16.0	30.0	6.0	75.0	Brazed
19.0	25.0	6.0	70.0	Brazed
19.0	38.0	6.0	83.0	Brazed

Part Numbers

Cut 2	Cut 6	Cut 3
KG60618-2	KG60618-6	KG60618-3
KG60820-2	KG60820-6	KG60820-3
KG61020-2	KG61020-6	KG61020-3
KG61220-2	KG61220-6	-
KG61225-2	KG61225-6	KG61225-3
KG61230-2	KG61230-6	-
KG61525-2	KG61525-6	KG61525-3
KG61630-2	KG61630-6	-
KG62025-2	KG62025-6	-
KG62038-2	KG62038-6	-

8mm shank

Dimensions - All in mm

d1	l1	d2	l2	Type
12.7	25.0	8.0	70.0	Brazed
12.7	30.0	8.0	75.0	Brazed
16.0	25.0	8.0	70.0	Brazed
16.0	30.0	8.0	75.0	Brazed
19.0	25.0	8.0	70.0	Brazed
19.0	38.0	8.0	83.0	Brazed

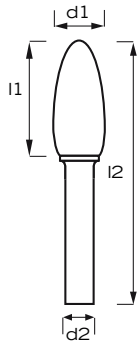
Part Numbers

Cut 2	Cut 6	Cut 3
KG81225-2	KG81225-6	KG81225-3
KG81230-2	KG81230-6	-
KG81525-2	KG81525-6	KG81525-3
KG81630-2	KG81630-6	-
KG82025-2	KG82025-6	-
KG82038-2	KG82038-6	-



Flame

Shape: H, SH



3mm
shank

Dimensions - All in mm

d1	l1	d2	l2	Type
3.0	6.0	3.0	38.0	Solid
5.0	9.5	3.0	38.0	Solid
6.0	10.0	3.0	43.0	Brazed

Part Numbers

Cut 2	Cut 6	Cut 3
KH30306-2	KH30306-6	-
KH30510-2	KH30510-6	-
KH30612-2	KH30612-6	-

6mm
shank

Dimensions - All in mm

d1	l1	d2	l2	Type
6.0	14.0	6.0	50.0	Solid
8.0	19.0	6.0	64.0	Brazed
9.6	19.0	6.0	65.0	Brazed
12.7	32.0	6.0	77.0	Brazed
16.0	36.0	6.0	81.0	Brazed
19.0	41.0	6.0	86.0	Brazed

Part Numbers

Cut 2	Cut 6	Cut 3
KH60614-2	KH60614-6	-
KH60820-2	KH60820-6	KH60820-3
KH61020-2	KH61020-6	KH61020-3
KH61232-2	KH61232-6	KH61232-3
KH61535-2	KH61535-6	KH61535-3
KH62042-2	KH62042-6	-

8mm
shank

Dimensions - All in mm

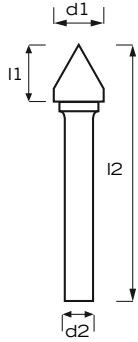
d1	l1	d2	l2	Type
12.7	32.0	8.0	77.0	Brazed
16.0	36.0	8.0	81.0	Brazed
19.0	41.0	8.0	86.0	Brazed

Part Numbers

Cut 2	Cut 6	Cut 3
KH81232-2	KH81232-6	-
KH81535-2	KH81535-6	-
KH82042-2	KH82042-6	-

60° Countersink

Shape: J, KSJ, SJ



3mm
shank

Dimensions - All in mm

d1	l1	d2	l2	Type
3.0	2.5	3.0	38.0	Solid

Part Numbers

Cut 2	Cut 6
KJ30303-2	KJ30303-6

6mm
shank

Dimensions - All in mm

d1	l1	d2	l2	Type
6.0	4.0	6.0	50.0	Solid
9.6	8.0	6.0	56.0	Brazed
12.7	11.0	6.0	59.0	Brazed
16.0	14.5	6.0	63.0	Brazed
19.0	17.5	6.0	65.0	Brazed
25.0	24.5	6.0	70.0	Brazed

Part Numbers

Cut 2	Cut 6
KJ60606-2	KJ60606-6
KJ61008-2	KJ61008-6
KJ61210-2	KJ61210-6
KJ61512-2	KJ61512-6
KJ62018-2	KJ62018-6
KJ62520-2	KJ62520-6

8mm
shank

Dimensions - All in mm

d1	l1	d2	l2	Type
12.7	11.0	8.0	59.0	Brazed
16.0	14.5	8.0	63.0	Brazed
19.0	17.5	8.0	65.0	Brazed
25.0	24.5	8.0	70.0	Brazed

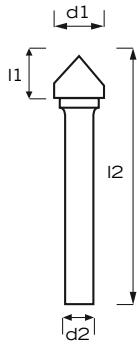
Part Numbers

Cut 2	Cut 6
KJ81210-2	KJ81210-6
KJ81512-2	KJ81512-6
KJ82018-2	KJ82018-6
KJ82520-2	KJ82520-6



90° Countersink

Shape: K, KSK, SK



3mm
shank

Dimensions - All in mm

d1	l1	d2	l2	Type	Cut 2	Cut 6
3.0	1.5	3.0	38.0	Solid	KK30303-2	KK30303-6

Part Numbers

6mm
shank

Dimensions - All in mm

d1	l1	d2	l2	Type	Cut 2	Cut 6
6.0	3.0	6.0	50.0	Solid	KK60603-2	KK60603-6
9.6	4.7	6.0	53.0	Brazed	KK61004-2	KK61004-6
12.7	6.3	6.0	55.0	Brazed	KK61206-2	KK61206-6
16.0	8.0	6.0	57.0	Brazed	KK61508-2	KK61508-6
19.0	9.5	6.0	59.0	Brazed	KK62012-2	KK62012-6
25.0	12.7	6.0	61.0	Brazed	KK62512-2	KK62512-6

Part Numbers

8mm
shank

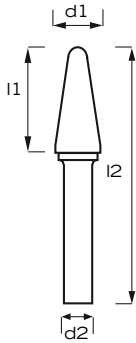
Dimensions - All in mm

d1	l1	d2	l2	Type	Cut 2	Cut 6
12.7	6.3	8.0	55.0	Brazed	KK81206-2	KK81206-6
16.0	8.0	8.0	57.0	Brazed	KK81508-2	KK81508-6
19.0	9.5	8.0	59.0	Brazed	KK82012-2	KK82012-6
25.0	12.7	8.0	61.0	Brazed	KK82512-2	KK82512-6

Part Numbers

Ball Nose Cone

Shape: L, KEL, SL



3mm shank

Dimensions - All in mm						Part Numbers		
d1	l1	d2	l2	Type	Angle	Cut 2	Cut 6	Cut 3
3.0	10.0	3.0	38.0	Solid	10°	KL30310-2	KL30310-6	-
3.0	14.0	3.0	38.0	Solid	8°	KL30312-2	KL30312-6	KL30312-3
5.0	12.7	3.0	38.0	Solid	14°	KL30512-2	KL30512-6	-
6.3	15.8	3.0	48.0	Brazed	22°	KL30612-2	KL30612-6	KL30612-3

6mm shank

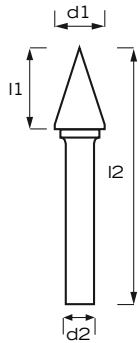
Dimensions - All in mm						Part Numbers		
d1	l1	d2	l2	Type	Angle	Cut 2	Cut 6	Cut 3
6.0	18.0	6.0	50.0	Solid	14°	KL60618-2	KL60618-6	KL60618-3
8.0	25.4	6.0	70.0	Brazed	14°	KL60822-2	KL60822-6	KL60822-3
10.0	20.0	6.0	65.0	Brazed	14°	KL61020-2	KL61020-6	KL61020-3
9.6	30.0	6.0	76.0	Brazed	14°	KL61026-2	KL61026-6	KL61026-3
12.0	25.0	6.0	70.0	Brazed	14°	KL61225-2	KL61225-6	-
12.7	32.0	6.0	77.0	Brazed	14°	KL61228-2	KL61228-6	KL61228-3
16.0	33.0	6.0	78.0	Brazed	14°	KL61533-2	KL61533-6	KL61533-3
19.0	41.0	6.0	86.0	Brazed	14°	KL62038-2	KL62038-6	-

8mm shank

Dimensions - All in mm						Part Numbers		
d1	l1	d2	l2	Type	Angle	Cut 2	Cut 6	Cut 3
12.7	32.0	8.0	77.0	Brazed	14°	KL81228-2	KL81228-6	KL81228-3
16.0	33.0	8.0	78.0	Brazed	14°	KL81533-2	KL81533-6	KL81533-3
19.0	41.0	8.0	86.0	Brazed	14°	KL82038-2	KL82038-6	-

Cone

Shape: M, SKM, SM



3mm shank

Dimensions - All in mm						Part Numbers		
d1	l1	d2	l2	Type	Angle	Cut 2	Cut 6	Cut 3
3.0	8.0	3.0	38.0	Solid	18°	KM30308-2	KM30308-6	-
3.0	11.0	3.0	38.0	Solid	14°	KM30311-2	KM30311-6	KM30311-3
3.0	15.0	3.0	38.0	Solid	10°	KM30315-2	KM30315-6	-
6.3	12.7	3.0	49.0	Brazed	22°	KM30612-2	KM30612-6	KM30612-3

6mm shank

Dimensions - All in mm						Part Numbers		
d1	l1	d2	l2	Type	Angle	Cut 2	Cut 6	Cut 3
6.0	12.7	6.0	50.0	Solid	20°	KM60612-2	KM60612-6	-
6.0	20.0	6.0	50.0	Solid	14°	KM60620-2	KM60620-6	KM60620-3
6.0	25.0	6.0	50.0	Solid	10°	KM60625-2	KM60625-6	-
8.0	18.0	6.0	64.0	Brazed	22°	KM60818-2	KM60818-6	-
9.6	16.0	6.0	64.0	Brazed	28°	KM61020-2	KM61020-6	KM61020-3
12.7	22.0	6.0	71.0	Brazed	28°	KM61222-2	KM61222-6	KM61222-3
16.0	25.0	6.0	71.0	Brazed	31°	KM61525-2	KM61525-6	-

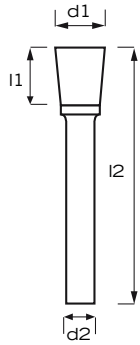
8mm shank

Dimensions - All in mm						Part Numbers		
d1	l1	d2	l2	Type	Angle	Cut 2	Cut 6	Cut 3
12.7	22.0	8.0	71.0	Brazed	28°	KM81222-2	KM81222-6	-
16.0	25.0	8.0	71.0	Brazed	31°	KM81525-2	KM81525-6	-



Inverted Cone

Shape: N, WKN, SN



3mm shank

Dimensions - All in mm						Part Numbers	
d1	l1	d2	l2	Type	Angle	Cut 2	Cut 6
3.0	4.0	3.0	38.0	Solid	10°	KN30304-2	KN30304-6
3.0	4.0	3.0	38.0	Solid	10°	KN30304-2E*	KN30304-6E*
6.3	6.0	3.0	39.0	Brazed	12°	KN30606-2	KN30606-6
6.3	6.4	3.0	39.0	Brazed	12°	KN306062E*	KN30606-6E*

* Inverted Cone with Endcut

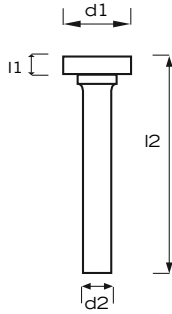
6mm shank

Dimensions - All in mm						Part Numbers	
d1	l1	d2	l2	Type	Angle	Cut 2	Cut 6
6.0	8.0	6.0	50.0	Solid	10°	KN60606-2	KN60606-6
9.6	9.5	6.0	55.0	Brazed	16°	KN61010-2	KN61010-6
12.7	12.7	6.0	58.0	Brazed	28°	KN61212-2	KN61212-6
16.0	19.0	6.0	64.0	Brazed	18°	KN61520-2	KN61520-6
19.0	16.0	6.0	61.0	Brazed	30°	KN62015-2	KN62015-6

8mm shank

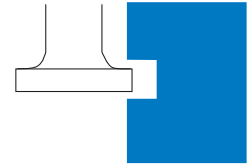
Dimensions - All in mm						Part Numbers	
d1	l1	d2	l2	Type	Angle	Cut 2	Cut 6
12.7	12.7	8.0	58.0	Brazed	28°	KN81212-2	KN81212-6
16.0	19.0	8.0	64.0	Brazed	18°	KN81520-2	KN81520-6
19.0	16.0	8.0	61.0	Brazed	30°	KN82015-2	KN82015-6

Rim Shape



A - Rectangle	R - Radius	RA - 90°	RAR - 90°+Rad

Profile Shapes



3mm
shank

Dimensions - All in mm

d1	l1	d2	l2	Type	Part Numbers
10.0	1.6	3.0	34.0	A	Cut 2 KA3101.6-2

6mm
shank

Dimensions - All in mm

d1	l1	d2	l2	Type	Part Numbers
12.0	2.6	6.0	48.0	A	Cut 2 KA6122.6-2
25.0	3.2	6.0	48.0	RAR	KRAR62503-2
25.0	5.5	6.0	50.0	RAR	KRA62505-2
25.0	6.3	6.0	51.0	A	KR62506-2
38.0	6.1	6.0	51.0	RAR	KRAR63806-2

8mm
shank

Dimensions - All in mm

d1	l1	d2	l2	Type	Part Numbers
25	3.2	8.0	48.0	RAR	Cut 2 KRAR82503-2
25.0	5.5	8.0	50.0	RA	KRA82505-2
25.0	6.3	8.0	51.0	R	KR82506-2
38.0	6.1	8.0	51.0	RAR	KRAR83806-2

Miniature Range

Cylinder without Endcut - Shape A, ZYA, SA



Dimensions - All in mm					Part Numbers		
d1	l1	d2	l2	Type	Cut 2	Cut 6	Cut 3
1.5	6.0	3.0	38.0	Solid	KA31.506-2	KA31.506-6	-
2.0	11.0	3.0	38.0	Solid	KA30211-2	KA30211-6	-
2.5	12.0	3.0	38.0	Solid	KA32.512-2	KA32.512-6	-
3.0	14.0	3.0	38.0	Solid	KA30314-2	KA30314-6	KA30314-3
5.0	12.7	3.0	38.0	Solid	KA30512-2	KA30512-6	-
6.3	4.7	3.0	37.0	Brazed	KA30605-2	KA30605-6	-
6.3	12.7	3.0	45.0	Brazed	KA30612-2	KA30612-6	KA30612-3

Cylinder with Endcut - Shape B, ZYAS, SB



Dimensions - All in mm					Part Numbers		
d1	l1	d2	l2	Type	Cut 2	Cut 6	Cut 3
1.5	6.0	3.0	38.0	Solid	KB31.506-2	KB31.506-6	-
2.0	11.0	3.0	38.0	Solid	KB30211-2	KB30211-6	-
2.5	12.0	3.0	38.0	Solid	KB32.512-2	KB32.512-6	-
3.0	14.0	3.0	38.0	Solid	KB30314-2	KB30314-6	KB30314-3
5.0	12.7	3.0	38.0	Solid	KB30512-2	KB30512-6	-
6.3	4.7	3.0	37.0	Brazed	KB30605-2	KB30605-6	-
6.3	12.7	3.0	45.0	Brazed	KB30612-2	KB30612-6	KB30612-3

Ball Nosed Cylinder - Shape C, WRC, SC



Dimensions - All in mm					Part Numbers		
d1	l1	d2	l2	Type	Cut 2	Cut 6	Cut 3
2.0	11.0	3.0	38.0	Solid	KC30211-2	KC30211-6	-
2.5	11.0	3.0	38.0	Solid	KC32.511-2	KC32.511-6	-
3.0	14.0	3.0	38.0	Solid	KC30312-2	KC30312-6	KC30312-3
5.0	12.7	3.0	38.0	Solid	KC30512-2	KC30512-6	-
6.3	12.7	3.0	45.0	Brazed	KC30612-2	KC30612-6	KC30612-3

Ball - Shape D, KUD, SD



Dimensions - All in mm					Part Numbers		
d1	l1	d2	l2	Type	Cut 2	Cut 6	Cut 3
2.0	1.8	3.0	38.0	Solid	KD30202-2	KD30202-6	-
2.5	2.3	3.0	38.0	Solid	KD32.52.5-2	KD32.52.5-6	-
3.0	2.5	3.0	38.0	Solid	KD30303-2	KD30303-6	KD30303-3
4.0	3.4	3.0	38.0	Solid	KD30404-2	KD30404-6	KD30404-3
5.0	4.7	3.0	38.0	Solid	KD30505-2	KD30505-6	-
6.3	5.0	3.0	38.0	Brazed	KD30606-2	KD30606-6	KD30606-3

Oval - Shape E, TRE, SE



Dimensions - All in mm					Part Numbers		
d1	l1	d2	l2	Type	Cut 2	Cut 6	Cut 3
3.0	6.0	3.0	38.0	Solid	KE30306-2	KE30306-6	KE30306-3
5.0	8.0	3.0	38.0	Solid	KE30508-2	KE30508-6	-
6.3	9.5	3.0	42.0	Brazed	KE30610-2	KE30610-6	KE30610-3

Ball Nosed Tree - Shape F, RBF, SF



Dimensions - All in mm					Part Numbers		
d1	l1	d2	l2	Type	Cut 2	Cut 6	Cut 3
3.0	6.0	3.0	38.0	Solid	KF30306-2	KF30306-6	-
3.0	8.0	3.0	38.0	Solid	KF30308-2	KF30308-6	-
3.0	14.0	3.0	38.0	Solid	KF30312-2	KF30312-6	KF30312-3
5.0	12.7	3.0	38.0	Solid	KF30512-2	KF30512-6	-
6.3	12.7	3.0	45.0	Brazed	KF30612-2	KF30612-6	KF30612-3

Pointed Tree - Shape G, SPG, SG



Dimensions - All in mm					Part Numbers		
d1	l1	d2	l2	Type	Cut 2	Cut 6	Cut 3
3.0	6.0	3.0	38.0	Solid	KG30306-2	KG30306-6	-
3.0	10.0	3.0	38.0	Solid	KG30310-2	KG30310-6	-
3.0	14.0	3.0	38.0	Solid	KG30312-2	KG30312-6	KG30312-3
5.0	12.7	3.0	38.0	Solid	KG30512-2	KG30512-6	-
6.3	12.7	3.0	45.0	Brazed	KG30612-2	KG30612-6	KG30612-3

Flame - Shape H, SH



Dimensions - All in mm					Part Numbers		
d1	l1	d2	l2	Type	Cut 2	Cut 6	Cut 3
3.0	6.0	3.0	38.0	Solid	KH30306-2	KH30306-6	-
5.0	9.5	3.0	38.0	Solid	KH30510-2	KH30510-6	-
6.0	10.0	3.0	43.0	Brazed	KH30612-2	KH30612-6	-

60° Countersink - Shape J, KSJ, SJ



Dimensions - All in mm					Part Numbers		
d1	l1	d2	l2	Type	Cut 2	Cut 6	Cut 3
3.0	2.5	3.0	38.0	Solid	KJ30303-2	KJ30303-6	-

Miniature Range



90° Countersink - Shape K, KSK, SK

Dimensions - All in mm					Part Numbers		
d1	l1	d2	l2	Type	Cut 2	Cut 6	Cut 3
3.0	1.5	3.0	38.0	Solid	KK30303-2	KK30303-6	-



Ball Nosed Cone - Shape L, KEL, SL

Dimensions - All in mm					Part Numbers			
d1	l1	d2	l2	Type	Angle	Cut 2	Cut 6	Cut 3
3.0	10.0	3.0	38.0	Solid	10°	KL30310-2	KL30310-6	-
3.0	14.0	3.0	38.0	Solid	8°	KL30312-2	KL30312-6	KL30312-3
5.0	12.7	3.0	38.0	Solid	14°	KL30512-2	KL30512-6	-
6.3	15.8	3.0	48.0	Brazed	22°	KL30612-2	KL30612-6	KL30612-3



Cone - Shape M, SKM, SM

Dimensions - All in mm					Part Numbers			
d1	l1	d2	l2	Type	Angle	Cut 2	Cut 6	Cut 3
3.0	8.0	3.0	38.0	Solid	18°	KM30308-2	KM30308-6	-
3.0	11.0	3.0	38.0	Solid	14°	KM30311-2	KM30311-6	KM30311-3
5.0	15.0	3.0	38.0	Solid	10°	KM30315-2	KM30315-6	-
6.3	12.7	3.0	48.0	Brazed	22°	KM30612-2	KM30612-6	KM30612-3



Inverted Cone - Shape N, WKN, SN

Dimensions - All in mm					Part Numbers			
d1	l1	d2	l2	Type	Angle	Cut 2	Cut 6	Cut 3
3.0	4.0	3.0	38.0	Solid	10°	KN30304-2	KN30304-6	-
6.3	6.4	3.0	39.0	Brazed	12°	KN30606-2	KN30606-6	-
3.0	4.0	3.0	38.0	Solid	10°	KN30304-2E*	KN30304-6E*	-
6.3	6.4	3.0	39.0	Brazed	12°	KN30606-2E*	KN30606-6E*	-

* Inverted cone with endcut



Rim

Dimensions - All in mm					Part Numbers		
d1	l1	d2	l2	Type	Cut 2	Cut 6	Cut 3
10.0	1.6	3.0	34.0	Brazed	KA3101.6-2	-	-

Micro Range -

High tolerance geometry for precision applications

Cylinder without Endcut Shape A

Dimensions - All in mm					Part Numbers
d1	l1	d2	l2	Type	Cut 2 MICRO
1.0	4.0	3.0	38.0	Solid	KA30104-2 MICRO
1.5	4.0	3.0	38.0	Solid	KA31.504-2 MICRO
2.0	4.0	3.0	38.0	Solid	KA30204-2 MICRO



Ball Nosed Cylinder Shape C

Dimensions - All in mm					Part Numbers
d1	l1	d2	l2	Type	Cut 2 MICRO
1.0	4.0	3.0	38.0	Solid	KC30104-2 MICRO
1.5	4.0	3.0	38.0	Solid	KC31.504-2 MICRO
2.0	4.0	3.0	38.0	Solid	KC30204-2 MICRO



Ball Shape D

Dimensions - All in mm					Part Numbers
d1	l1	d2	l2	Type	Cut 2 MICRO
1.0	0.9	3.0	38.0	Solid	KD30101-2 MICRO
1.5	1.4	3.0	38.0	Solid	KD31.51.5-2 MICRO
2.0	1.8	3.0	38.0	Solid	KD30202-2 MICRO



Ball Nosed Tree Shape F

Dimensions - All in mm					Part Numbers
d1	l1	d2	l2	Type	Cut 2 MICRO
1.5	4.0	3.0	38.0	Solid	KE31.504-2 MICRO



Pointed Tree Shape G

Dimensions - All in mm					Part Numbers
d1	l1	d2	l2	Type	Cut 2 MICRO
1.5	4.0	3.0	38.0	Solid	KF31.504-2 MICRO



Cone Shape M

Dimensions - All in mm						Part Numbers
d1	l1	d2	l2	Type	Angle	Cut 2 MICRO
1.5	4.0	3.0	38.0	Solid	16°	M31.504-2 MICRO



Long Shank Range

Cylinder without Endcut - Shape A, ZYA, SA

3mm shank		Dimensions - All in mm					Part Numbers	
d1	l1	d2	l2	Type	Cut 2	Cut 6		
3.0	14.0	3.0	50.0	Solid	KA30314-2-50	KA30314-6-50		
3.0	14.0	3.0	75.0	Solid	KA30314-2-75	KA30314-6-75		
3.0	14.0	3.0	100.0	Solid	KA30314-2-100	KA30314-6-100		

6mm shank		Dimensions - All in mm					Part Numbers	
d1	l1	d2	l2	Type	Cut 2	Cut 6		
6.0	18.0	6.0	100.0	Solid	KA60618-2-100	KA60618-6-100		
6.0	18.0	6.0	150.0	Solid	KA60618-2-150	KA60618-6-150		
8.0	19.0	6.0	172.0	Brazed	KA60820-2-170	KA60820-6-170		
9.6	19.0	6.0	172.0	Brazed	KA61020-2-170	KA61020-6-170		
12.7	25.0	6.0	178.0	Brazed	KA61225-2-175	KA61225-6-175*		

Cylinder with Endcut - Shape B, ZYAS, SB

3mm shank		Dimensions - All in mm					Part Numbers	
d1	l1	d2	l2	Type	Cut 2	Cut 6		
3.0	14.0	3.0	50.0	Solid	KB30314-2-50	KB30314-6-50		
3.0	14.0	3.0	75.0	Solid	KB30314-2-75	KB30314-6-75		
3.0	14.0	3.0	100.0	Solid	KB30314-2-100	KB30314-6-100		

6mm shank		Dimensions - All in mm					Part Numbers	
d1	l1	d2	l2	Type	Cut 2	Cut 6		
6.0	18.0	6.0	100.0	Solid	KB60618-2-100	KB60618-6-100		
6.0	18.0	6.0	150.0	Solid	KB60618-2-150	KB60618-6-150		
8.0	19.0	6.0	172.0	Brazed	KB60820-2-170	KB60820-6-170		
9.6	19.0	6.0	172.0	Brazed	KB61020-2-170	KB61020-6-170		
12.7	25.0	6.0	178.0	Brazed	KB61225-2-175	KB61225-6-175*		

Ball Nosed Cylinder - Shape C, WRC, SC

3mm shank		Dimensions - All in mm					Part Numbers	
d1	l1	d2	l2	Type	Cut 2	Cut 6		
3.0	14.0	3.0	50.0	Solid	KC30312-2-50	KC30312-6-50		
3.0	14.0	3.0	75.0	Solid	KC30312-2-75	KC30312-6-75		
3.0	14.0	3.0	100.0	Solid	KC30312-2-100	KC30312-6-100		

6mm shank		Dimensions - All in mm					Part Numbers	
d1	l1	d2	l2	Type	Cut 2	Cut 6		
6.0	18.0	6.0	100.0	Solid	KC60618-2-100	KC60618-6-100		
6.0	18.0	6.0	150.0	Solid	KC60618-2-150	KC60618-6-150		
8.0	19.0	6.0	172.0	Brazed	KC60820-2-170	KC60820-6-170		
9.6	19.0	6.0	172.0	Brazed	KC61020-2-170	KC61020-6-170		
12.7	25.0	6.0	178.0	Brazed	KC612225-2-175	KC612225-6-175*		

*Also available with 8mm shank



Ball - Shape D, KUD, SD

3mm shank	Dimensions - All in mm					Part Numbers	
	d1	l1	d2	l2	Type	Cut 2	Cut 6
6mm shank	3.0	2.5	3.0	50.0	Solid	KD30303-2-50	KD30303-6-50
	3.0	2.5	3.0	75.0	Solid	KD30303-2-75	KD30303-6-75
6mm shank	d1	l1	d2	l2	Type	Cut 2	Cut 6
	8.0	6.0	6.0	182.0	Brazed	KD60808-2-180	KD60808-6-180
	9.6	8.0	6.0	184.0	Brazed	KD61010-2-185	KD61010-6-185
	12.7	11.0	6.0	184.0	Brazed	KD61212-2-162	KD61212-6-162*

Oval - Shape E, TRE, SE

3mm shank	Dimensions - All in mm					Part Numbers	
	d1	l1	d2	l2	Type	Cut 2	Cut 6
6mm shank	3.0	6.0	3.0	50.0	Solid	KE30306-2-50	KE30306-6-50
	3.0	6.0	3.0	75.0	Solid	KE30306-2-75	KE30306-6-75
6mm shank	d1	l1	d2	l2	Type	Cut 2	Cut 6
	9.6	16.0	6.0	168.0	Brazed	KE61015-2-165	KE610-6-165
	12.7	22.0	6.0	175.0	Brazed	KE61220-2-170	KE61220-6-170*

Ball Nosed Tree - Shape F, RBF, SF

3mm shank	Dimensions - All in mm					Part Numbers	
	d1	l1	d2	l2	Type	Cut 2	Cut 6
6mm shank	3.0	14.0	3.0	50.0	Solid	KF30312-2-50	KF30312-6-50
	3.0	14.0	3.0	75.0	Solid	KF30312-2-75	KF30312-6-75
6mm shank	d1	l1	d2	l2	Type	Cut 2	Cut 6
	6.0	18.0	6.0	150.0	Solid	KF60618-2-150	KF60618-6-150
	9.6	19.0	6.0	172.0	Brazed	KF61020-2-170	KF61020-6-170
	12.7	25.0	6.0	178.0	Brazed	KF61225-2-175	KF61225-6-175*

*Also available with 8mm shank

Long Shank Range



Pointed Tree - Shape G, SPG, SG

3mm shank	Dimensions - All in mm					Part Numbers	
	d1	l1	d2	l2	Type	Cut 2	Cut 6
6mm shank	3.0	14.0	3.0	50.0	Solid	KG30312-2-50	KG30312-6-50
	3.0	14.0	3.0	75.0	Solid	KG30312-2-75	KG30312-6-75
	d1	l1	d2	l2	Type	Cut 2	Cut 6
	9.6	19.0	6.0	172.0	Brazed	KG61020-2-170	KG61020-6-170
	12.7	25.0	6.0	178.0	Brazed	KG61020-2-175	KG61020-6-175*

Flame - Shape H, SH

3mm shank	Dimensions - All in mm					Part Numbers	
	d1	l1	d2	l2	Type	Cut 2	Cut 6
6mm shank	3.0	14.0	3.0	50.0	Solid	KH30306-2-50	KH30306-6-50
	3.0	14.0	3.0	75.0	Solid	KH30306-2-75	KH30306-6-75
	d1	l1	d2	l2	Type	Cut 2	Cut 6
	8.0	19.0	6.0	172.0	Brazed	KH60820-6-170	KH60820-6-170
	12.7	32.0	6.0	178.0	Brazed	KH61232-2-182	KH61232-6-182*

Ball Nosed Cone - Shape L, KEL, SL

3mm shank	Dimensions - All in mm						Part Numbers	
	d1	l1	d2	l2	Type	Angle	Cut 2	Cut 6
6mm shank	3.0	14.0	3.0	50.0	Solid	8°	KL30312-2-50	KL30312-6-50
	3.0	14.0	3.0	75.0	Solid	8°	KL30312-2-75	KL30312-6-75
	d1	l1	d2	l2	Type	Angle	Cut 2	Cut 6
	9.6	30.0	6.0	183.0	Brazed	14°	KL61026-2-176	KL61026-6-176
	12.7	30.2	6.0	185.0	Brazed	14°	KL61228-2-182	KL61228-2-182*

*Also available with 8mm shank

Coated Range -

TiAlN coated for extended tool life

Cylinder without Endcut - Shape A, ZYA, SA

3mm shank	Dimensions - All in mm					Part Numbers	
	d1	l1	d2	l2	Type	Cut 6	Cut 3
	3.0	14.0	3.0	38.0	Solid	KA30314-6 TIALN	-
6mm shank	d1	l1	d2	l2	Type	Cut 6	Cut 3
	6.0	18.0	6.0	50.0	Solid	KA60618-6 TIALN	-
	8.0	19.0	6.0	64.0	Brazed	KA60820-6 TIALN	-
	9.6	19.0	6.0	64.0	Brazed	KA61020-6 TIALN	KA61020-3 TIALN
	12.7	25.0	6.0	70.0	Brazed	KA61225-6 TIALN	KA61225-3 TIALN

Cylinder with Endcut - Shape B, ZYAS, SB



3mm shank	Dimensions - All in mm					Part Numbers	
	d1	l1	d2	l2	Type	Cut 6	Cut 3
	3.0	14.0	3.0	38.0	Solid	KB30314-6 TIALN	-
6mm shank	d1	l1	d2	l2	Type	Cut 6	Cut 3
	6.0	18.0	6.0	50.0	Solid	KB60618-6 TIALN	-
	8.0	19.0	6.0	64.0	Brazed	KB60820-6 TIALN	-
	9.6	19.0	6.0	64.0	Brazed	KB61020-6 TIALN	KB61020-3 TIALN
	12.7	25.0	6.0	70.0	Brazed	KB61225-6 TIALN	KB61225-3 TIALN

Ball Nosed Cylinder - Shape C, WRC, SC



3mm shank	Dimensions - All in mm					Part Numbers	
	d1	l1	d2	l2	Type	Cut 6	Cut 3
	3.0	14.0	3.0	38.0	Solid	KC30312-6 TIALN	-
6mm shank	d1	l1	d2	l2	Type	Cut 6	Cut 3
	6.0	18.0	6.0	50.0	Solid	KC60618-6 TIALN	-
	8.0	19.0	6.0	64.0	Brazed	KC60820-6 TIALN	-
	9.6	19.0	6.0	64.0	Brazed	KC61020-6 TIALN	KC61020-3 TIALN
	12.7	25.0	6.0	70.0	Brazed	KC61225-6 TIALN	KC61225-3 TIALN

Coated Range

Ball - Shape D, KUD, SD



3mm shank		Dimensions - All in mm				Part Numbers	
d1	l1	d2	l2	Type	Cut 6	Cut 3	
3.0	2.5	3.0	38.0	Solid	KD30303-6 TIALN	-	

6mm shank		Dimensions - All in mm				Part Numbers	
d1	l1	d2	l2	Type	Cut 6	Cut 3	
6.0	4.7	6.0	50.0	Solid	KD60606-6 TIALN	-	
8.0	6.0	6.0	52.0	Brazed	KD60808-6 TIALN	-	
9.6	8.0	6.0	54.0	Brazed	KD61010-6 TIALN	KD61010-3 TIALN	
12.7	11.0	6.0	56.0	Brazed	KD61212-6 TIALN	KD61212-3 TIALN	

Ball Nosed Tree - Shape F, RBF, SF



3mm shank		Dimensions - All in mm				Part Numbers	
d1	l1	d2	l2	Type	Cut 6	Cut 3	
3.0	14.0	3.0	38.0	Solid	KF30312-6 TIALN	-	

6mm shank		Dimensions - All in mm				Part Numbers	
d1	l1	d2	l2	Type	Cut 6	Cut 3	
6.0	18.0	6.0	50.0	Solid	KF60618-6 TIALN	-	
9.6	19.0	6.0	65.0	Brazed	KF61020-6 TIALN	KF61020-3 TIALN	
12.7	25.0	6.0	70.0	Brazed	KF61225-6 TIALN	KF61225-3 TIALN	

Pointed Tree - Shape G, SPG, SG



3mm shank		Dimensions - All in mm				Part Numbers	
d1	l1	d2	l2	Type	Cut 6	Cut 3	
3.0	14.0	3.0	38.0	Solid	KG30312-6 TIALN	-	

6mm shank		Dimensions - All in mm				Part Numbers	
d1	l1	d2	l2	Type	Cut 6	Cut 3	
6.0	18.0	6.0	50.0	Solid	G60618-6 TIALN	-	
9.6	19.0	6.0	65.0	Brazed	G61020-6 TIALN	-	
12.7	25.0	6.0	70.0	Brazed	G61225-6 TIALN	-	

Coated Range

Flame - Shape H, SH

6mm
shank

Dimensions - All in mm

d1	l1	d2	l2	Type
8.0	19.0	6.0	64.0	Brazed
12.7	32.0	6.0	77.0	Brazed

Part Numbers

Cut 6	Cut 3
KH60820-6 TIALN	-
KH61232-6 TIALN	-

Ball Nosed Cone - Shape L, KEL, SL

3mm
shank

Dimensions - All in mm

d1	l1	d2	l2	Type
3.0	14.0	3.0	38.0	Solid

Part Numbers

Cut 6	Cut 3
KL30312-6 TIALN	-

6mm
shank

d1	l1	d2	l2	Type
12.7	32.0	6.0	77.0	Brazed

Cut 6	Cut 3
KL61228-6 TIALN	KL61228-3 TIALN

Wear Eye
Protection!Wear Hearing
Protection!Observe the recommended
rotational speed, especially when
using burs with long shanks!Wear Protective
Gloves

Powercut Range -

for heavy duty applications (Foundries / Shipyards)

Cylinder without Endcut - Shape A, ZYA, SA

6mm shank	Dimensions - All in mm					Part Numbers
	d1	l1	d2	l2	Type	Cut 5
	9.6	19.0	6.0	64.0	Brazed	KA61020-5
	12.7	25.0	6.0	70.0	Brazed	KA61225-5
	16.0	25.0	6.0	70.0	Brazed	KA61525-5

8mm shank	Dimensions - All in mm					Part Numbers
	d1	l1	d2	l2	Type	Cut 5
	12.7	25.0	8.0	70.0	Brazed	KA81225-5



Cylinder with Endcut - Shape B, ZYAS, SB

6mm shank	Dimensions - All in mm					Part Numbers
	d1	l1	d2	l2	Type	Cut 5
	9.6	19.0	6.0	64.0	Brazed	KB61020-5
	12.7	25.0	6.0	70.0	Brazed	KB61225-5
	16.0	25.0	6.0	70.0	Brazed	KB61525-5

8mm shank	Dimensions - All in mm					Part Numbers
	d1	l1	d2	l2	Type	Cut 5
	12.7	25.0	8.0	70.0	Brazed	KB81225-5



Ball Nosed Cylinder - Shape C, WRC, SC

6mm shank	Dimensions - All in mm					Part Numbers
	d1	l1	d2	l2	Type	Cut 5
	8.0	19.0	6.0	64.0	Brazed	KC60820-5
	9.6	19.0	6.0	64.0	Brazed	KC61020-5
	12.7	25.0	6.0	70.0	Brazed	KC61225-5
	16.0	25.0	6.0	70.0	Brazed	KC61525-5

8mm shank	Dimensions - All in mm					Part Numbers
	d1	l1	d2	l2	Type	Cut 5
	12.7	25.0	8.0	70.0	Brazed	KC81225-5



Powercut Range

Ball - Shape D, KUD, SD

6mm shank

Dimensions - All in mm					Part Numbers
d1	l1	d2	l2	Type	Cut 5
9.6	8.0	6.0	54.0	Brazed	KD61010-5
12.7	11.0	6.0	56.0	Brazed	KD61212-5



Oval - Shape E, TRE, SE

6mm shank

Dimensions - All in mm					Part Numbers
d1	l1	d2	l2	Type	Cut 5
9.6	16.0	6.0	60.0	Brazed	KE61015-5
12.7	22.0	6.0	67.0	Brazed	KE61220-5



Ball Nosed Tree - Shape F, RBF, SF

6mm shank

Dimensions - All in mm					Part Numbers
d1	l1	d2	l2	Type	Cut 5
9.6	19.0	6.0	64.0	Brazed	KF61020-5
12.7	25.0	6.0	70.0	Brazed	KF61225-5
16.0	25.0	6.0	70.0	Brazed	KF61525-5

8mm shank

Dimensions - All in mm					Part Numbers
d1	l1	d2	l2	Type	Cut 5
12.7	25.0	8.0	70.0	Brazed	KF81225-5
16.0	25.0	8.0	70.0	Brazed	KF81525-5



Powercut Range

Pointed Tree - Shape G, SPG, SG

6mm shank	Dimensions - All in mm					Part Numbers
	d1	l1	d2	l2	Type	Cut 5
8mm shank	9.6	19.0	6.0	64.0	Brazed	KG61020-5
	12.7	25.0	6.0	70.0	Brazed	KG61225-5
	d1	l1	d2	l2	Type	Cut 5
	12.7	25.0	8.0	70.0	Brazed	KG81225-5



Flame - Shape H, SH

6mm shank	Dimensions - All in mm					Part Numbers
	d1	l1	d2	l2	Type	Cut 5
	12.7	32.0	6.0	77.0	Brazed	KH61232-5



Ball Nosed Cone - Shape L, KEL, SL

6mm shank	Dimensions - All in mm						Part Numbers
	d1	l1	d2	l2	Type	Angle	Cut 5
8mm shank	8.0	25.0	6.0	70.0	Brazed	14°	KL60822-5
	9.6	30.0	6.0	76.0	Brazed	14°	KL61026-5
	12.7	32.0	6.0	77.0	Brazed	14°	KL61228-5
	16.0	33.0	6.0	78.0	Brazed	14°	KL61533-5
	d1	l1	d2	l2	Type	Angle	Cut 5
	12.7	32.0	8.0	77.0	Brazed	14°	KL81228-5



Cone - Shape M, SKM, SM

6mm shank	Dimensions - All in mm						Part Numbers
	d1	l1	d2	l2	Type	Angle	Cut 5
	12.7	22.0	6.0	7.1	Brazed	28°	KM61222-5



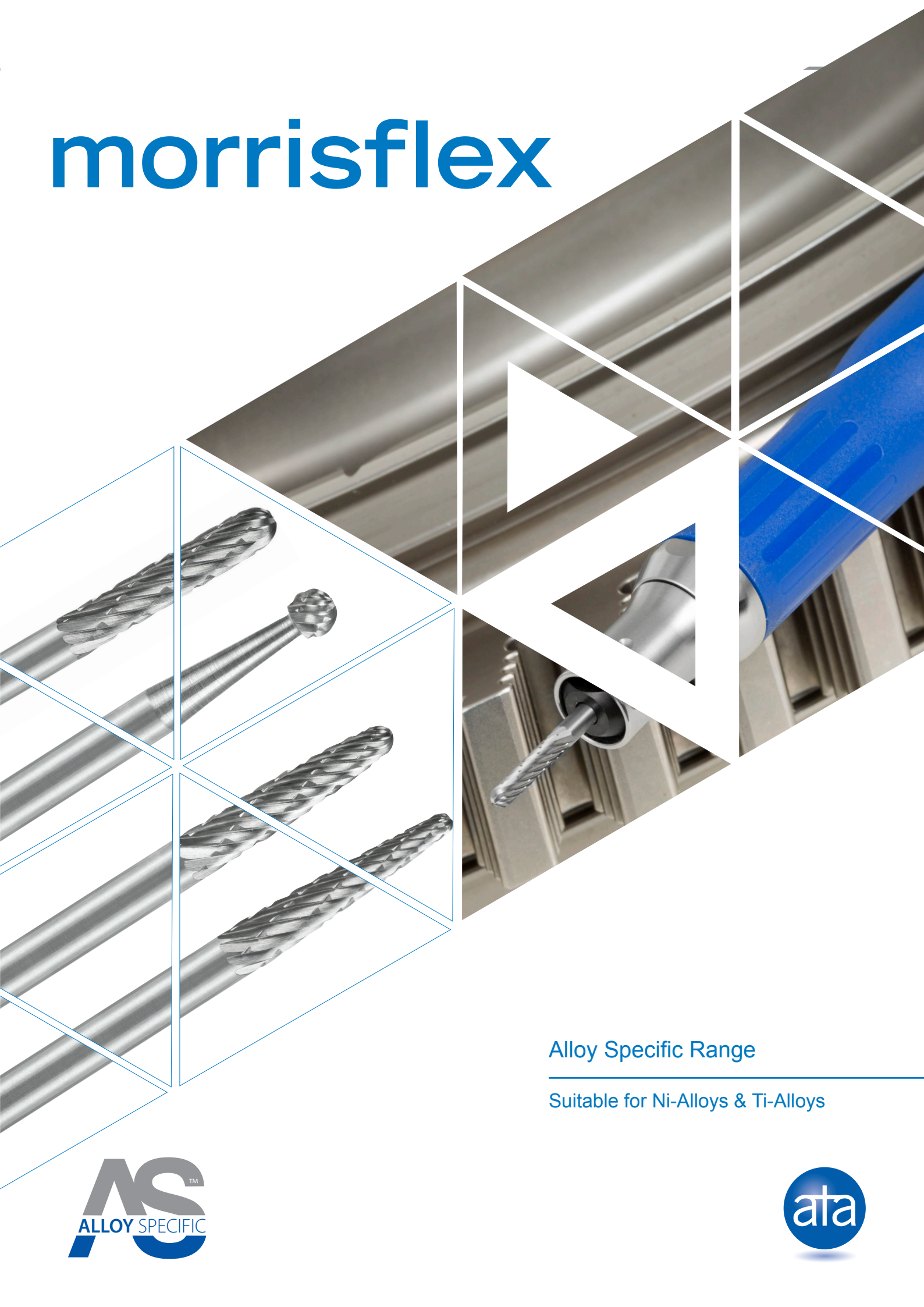
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MATERIAL
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Alloy Specific Range

Suitable for Ni-Alloys & Ti-Alloys



morrisflex ALLOY SPECIFIC RANGE

Introducing the new Alloy Specific Bur range from Morrisflex

Designed specifically to meet the most demanding metal finishing needs of high tech industries.

The geometry has been specifically designed for use on Ni-Alloys & Ti-Alloys.

Our new alloy specific bur geometry offers:

- Advanced cutting geometry , allowing for -
 - Increased stock removal
 - Improved surface finish
 - Increased tool life
 - Controlled cutting action
- High performance grinding - ensuring production savings and reduced downtime
- CNC Machined - high consistent quality
- Combined with the ATA Pencil Grinders, the AS range allows for:
 - A smoother grinding operation
 - Increased productivity



D1	Cutting Diameter
L2	Length of Cut
D2	Shank Diameter
L1	Overall Length



To find out more scan here



Wear Eye Protection!



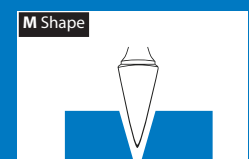
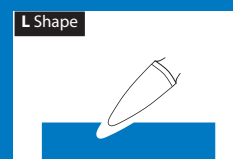
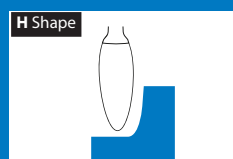
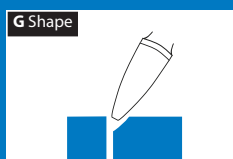
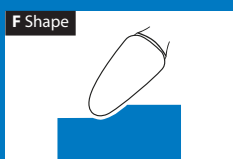
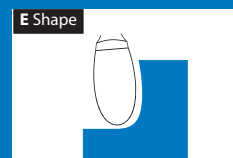
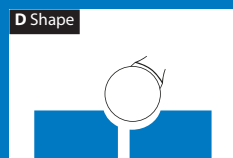
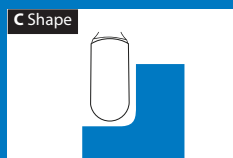
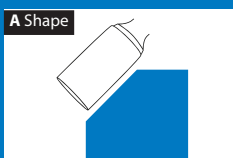
Wear Hearing Protection!



Observe the recommended rotational speed, especially when using burs with long shanks!



Wear Protective Gloves



SHAPE A, ZYA, SA



Cylinder without Endcut

Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Part No.
3.0	12.0	3.0	38	KA30312-6AS

SHAPE C, WRC, SC



Ball Nosed Cylinder

Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Part No.
3.0	14.0	3.0	38	KC30312-6AS

SHAPE D, KUD, SD



Ball Shape

Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Part No.
3.0	2.5	3.0	38	KD30303-6AS

SHAPE E, TRE, SE



Oval Shape

Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Part No.
3.0	6.0	3.0	38	KE30306-6AS

SHAPE F, RBF, SF



Ball Nosed Tree

Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Part No.
3.0	14.0	3.0	38	KF30312-6AS

SHAPE G, SPG, SG



Pointed Tree

Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Part No.
3.0	8.0	3.0	38	KG30308-6AS
3.0	14.0	3.0	38	KG30314-6AS

SHAPE H, SH



Flame

Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Part No.
3.0	6.0	3.0	38	KH30306-6AS

SHAPE L, KEL, SL



<i>Ball Nosed Cone</i>				
Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Part No.
3.0	14.0	3.0	38	KL30314-6AS

SHAPE M, SKM, SM



<i>Cone</i>				
Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Part No.
3.0	15.0	3.0	38	KM30315-6AS



Wear Eye Protection!



Wear Hearing Protection!



Observe the recommended rotational speed, especially when using burs with long shanks!



Wear Protective Gloves

AS RANGE SET

Features & Benefits

FEATURES

Compact

Versatile assortment

BENEFITS

Easy to carry

Ideal for demonstrations, samplings or special promotions



Line	Description Type	Contents	Alloy Specific Part No.
Sets	10 pcs Alloy Specific Cut	KA30312-6AS; KC30312-6AS; KD30303-6AS; KE30306-6AS; KF30312-6AS; KG30308-6AS; KG30314-6AS; KH30306-6AS; KL30314-6AS; KM30315-6AS	>MORFLX-IS-10X3MM-6AS

AS RANGE SPEED GUIDE

Bur Head Diameter	Maximum Operating Speed	Speed Range	Suggested Air Tools
3mm (1/8")	100,000	45,000 - 100,000	SP & SPT* Ranges

Recommended speeds are based on standard overall length of 38mm (1-1/2") maximum overhang of 10mm (3/8")

*SPT Range is oil-free



To find out more scan here

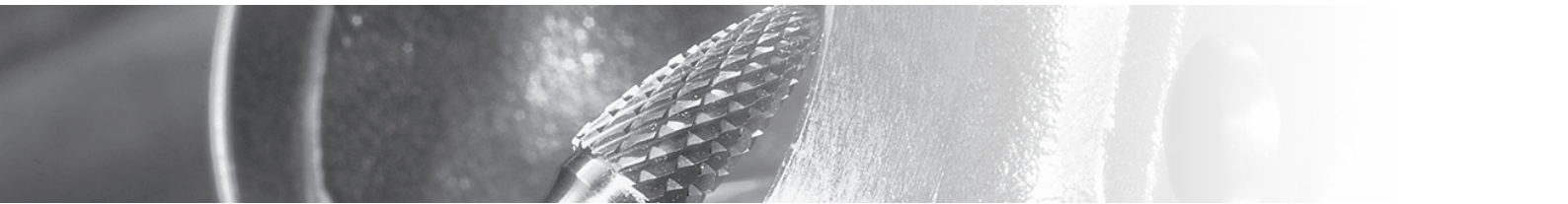
morrisflex



Inox Range

www.atagroup.co



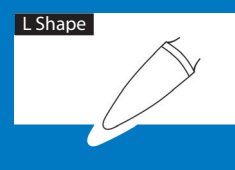
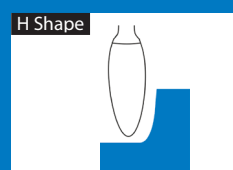
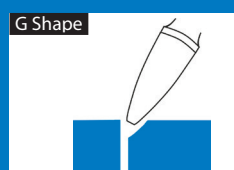
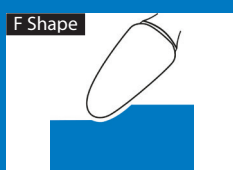
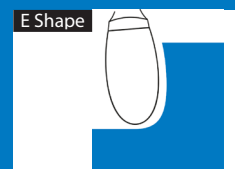
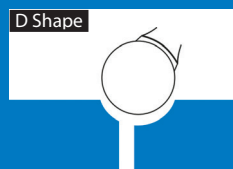
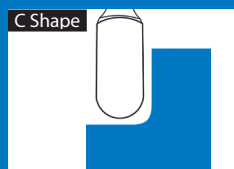
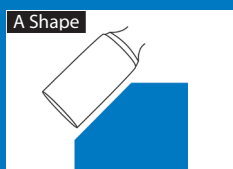
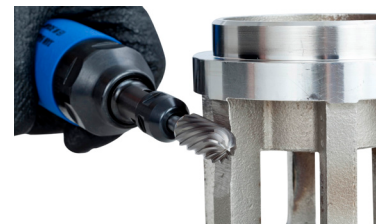


morrisflex INOX RANGE

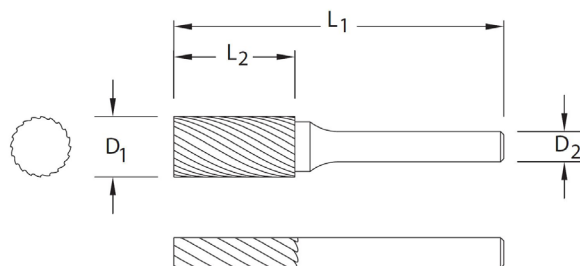
Morrisflex Inox Range has a specially designed geometry to suit growing market demands for stainless steel applications. This is a cost effective alternative to standard solutions due to the greater rate of stainless steel stock removal and on Ferritic, Austenitic & Martensitic based materials.

Features & Benefits

- Developed cutting geometry - generating high stock removal on Inox components
- High performance grinding - ensuring production savings and reduced downtime
- Specifically developed Inox cutting geometry - reducing heat build up at the cutting edge and workpiece
- Manufactured from high quality sintered tungsten carbide - guaranteed high performance and durability
- CNC Machined - High consistent quality
- Combination of ATA air tool with Inox cut geometry - gives a guaranteed smoother grinding operation
- Manufactured to strict quality control standards - Incorporates 100% inspection of brazed joints



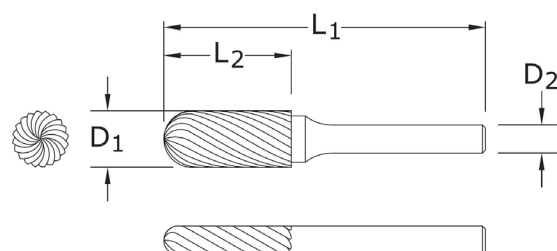
INOX RANGE A



Inox A - Cylinder without Endcut

Product Code	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1
KA30314-3INOX	3.0	14.0	3.0	38.0
KA30612-3INOX	6.3	12.7	3.0	45.0
KA60618-3INOX	6.0	18.0	6.0	50.0
KA60820-3INOX	8.0	19.0	6.0	64.0
KA61020-3INOX	9.6	19.0	6.0	64.0
KA61225-3INOX	12.7	25.0	6.0	70.0

INOX RANGE C



Inox C - Ball Nosed Cylinder

Product Code	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1
KC30312-3INOX	3.0	14.0	3.0	38.0
KC30612-3INOX	6.3	12.7	3.0	45.0
KC60618-3INOX	6.0	18.0	6.0	50.0
KC60820-3INOX	8.0	19.0	6.0	64.0
KC61020-3INOX	9.6	19.0	6.0	64.0
KC61225-3INOX	12.7	25.0	6.0	70.0



Wear Eye Protection!



Wear Hearing Protection!

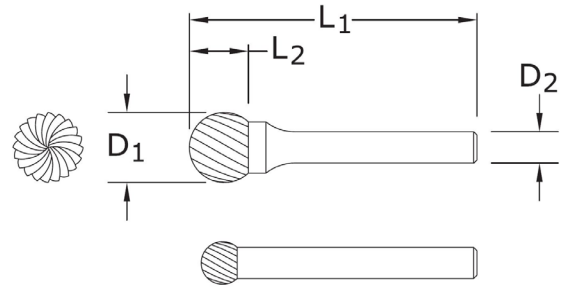


Observe the recommended rotational speed, especially when using burs with long shanks!



Wear Protective Gloves

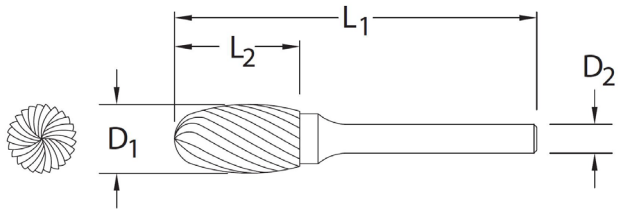
INOX RANGE D



Inox D - Ball Shape

Product Code	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1
KD30303-3INOX	3.0	2.5	3.0	38.0
KD30606-3INOX	6.3	5.0	3.0	38.0
KD60606-3INOX	6.0	4.7	6.0	50.0
KD60808-3INOX	8.0	6.0	6.0	52.0
KD61010-3INOX	9.6	8.0	6.0	54.0
KD61212-3INOX	12.7	11.0	6.0	56.0

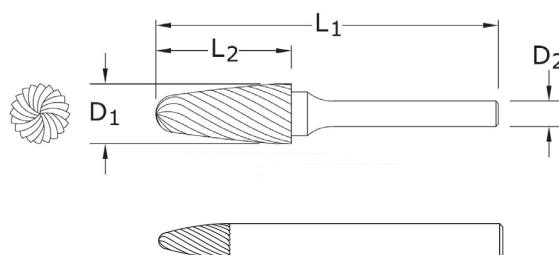
INOX RANGE E



Inox E - Oval Shape

Product Code	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1
KE60815-3INOX	8.0	15.0	6.0	60.0
KE61015-3INOX	9.6	16.0	6.0	60.0
KE61220-3INOX	12.7	22.0	6.0	67.0

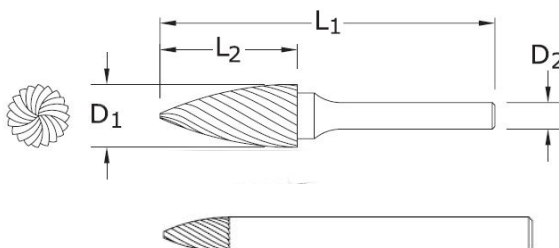
INOX RANGE F



Inox F - Ball Nosed Tree Shape

Product Code	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1
KF30312-3INOX	3.0	14.0	3.0	38.0
KF30612-3INOX	6.3	12.7	3.0	45.0
KF60618-3INOX	6.0	18.0	6.0	50.0
KF60820-3INOX	8.0	20.0	6.0	65.0
KF61020-3INOX	9.6	19.0	6.0	64.0
KF61225-3INOX	12.7	25.0	6.0	70.0

INOX RANGE G



Inox G - Pointed Tree Shape

Product Code	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1
KG60618-3INOX	6.0	18.0	6.0	50.0
KG60820-3INOX	8.0	19.0	6.0	64.0
KG61020-3INOX	9.6	19.0	6.0	64.0
KG61225-3INOX	12.7	25.0	6.0	70.0



Wear Eye Protection!



Wear Hearing Protection!

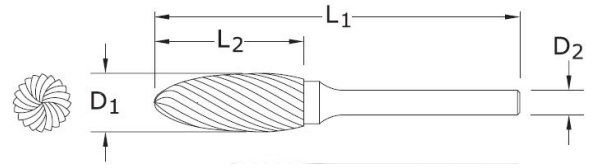


Observe the recommended rotational speed, especially when using burs with long shanks!



Wear Protective Gloves

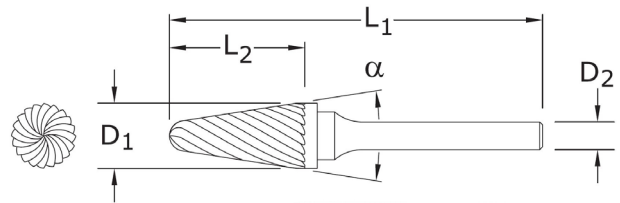
INOX RANGE H



InOX H - Flame Shape

Product Code	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1
KH60820-3INOX	8.0	19.0	6.0	64.0
KH61020-3INOX	9.6	19.0	6.0	65.0
KH61232-3INOX	12.7	32.0	6.0	77.0

INOX RANGE L



InOX L - Ball Nosed Cone Shape

Product Code	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Included Angle α
KL60822-3INOX	8.0	25.4	6.0	70.0	14°
KL61020-3INOX	10.0	20.0	6.0	65.0	14°
KL61228-3INOX	12.7	32.0	6.0	77.0	14°

INOX RANGE SETS

Features & Benefits - Bur Set

FEATURES

Compact
Versatile assortment

BENEFITS

Easy to carry
Ideal for demonstrations, samplings
or special promotions



Line	Description Type	Type	Contents	Cut - Inox Part No.
Sets	BUR5 INOX	5pcs INOX CUT	KA61225-3INOX; KC61225-3INOX; KF61225-3INOX; KG1225-3INOX; KL61228-3INOX	>SET11MX-HB-5X6MM-IX
Sets	BUR5 INOX	5pcs INOX CUT	KA61020-3INOX; KC61020-3INOX; KD61010-3INOX; KF61020-3INOX; KL61020-3INOX	>MORFLX-IG-5X6MM-3IN

INOX RANGE SPEED GUIDE

MATERIAL GROUPS	N/mm2	B.S	EN	DIN
Free Machining	<850	303 S21, 416 S37	EN56 EN60	X100CrNiS189; X12CrMoS17
Austenitic	<850	304 S15, 321 S17, 316S, 320 S12	EN80, EN58+C EN58J, 316	X5CrNi189; X10CrNiMoTi1810
Ferritic; Austenitic & Martensitic	<1000	317 S16, 316 S16	EB58 b,e,j,t Duplex alloys	XbCrNiMo275; X4CrNiMoN6257

INOX	Bur Head ø	Maximum Operating Speed	Speed Range	Suggested Air Tools
	3mm	100,000	60,000 - 80,000	SP75R / ST100
	6mm	65,000	30,000 - 45,000	SD45LR / S50
	10mm	55,000	19,000 - 30,000	SD30LR / SD37LR
	12mm	35,000	15,000 - 22,000	SMD25LR-CA / SM25LR-CA

Recommended Speeds are based on standard shank length of 45mm; max overhang of 10mm

Front & Rear Exhaust options available for certain models. Refer to ATA Air tool catalogue.



Wear Eye Protection!



Wear Hearing Protection!



Observe the recommended rotational speed, especially when using burs with long shanks!



Wear Protective Gloves

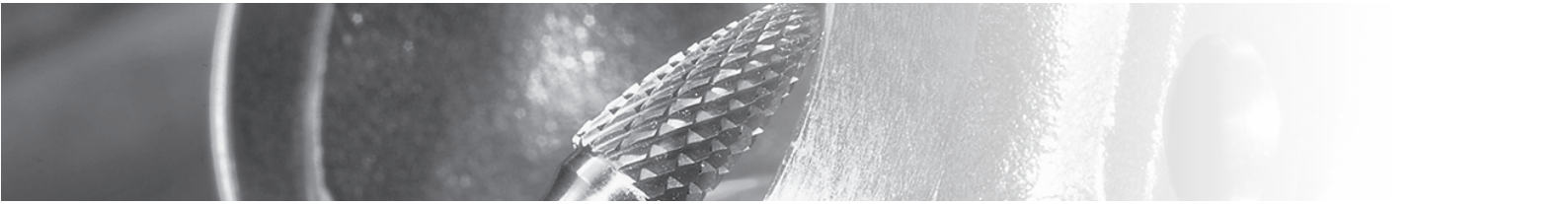
morrisflex



Steel Range

www.atagroup.co





morrisflex STEEL RANGE

Morrisflex Steel Range has a specially designed geometry to suit growing market demands for steel and cast steel applications. This is a cost effective alternative to standard solutions due to a greater rate of stock removal.

Features & Benefits

- Specifically developed geometry - Increasing machining output on Steel components compared to cuts 2; 5 & 6
- Aggressive cutting form - producing large chips with increased stock removal
- Specifically engineered steel cutting geometry - generating lower heat at cutting edge
- CNC Machined - high consistent quality
- Combination of ATA air tool with Steel cut geometry - gives a guaranteed smoother grinding operation
- Manufactured to strict quality control standards - Incorporates 100% inspection of brazed joints



Wear Eye Protection!



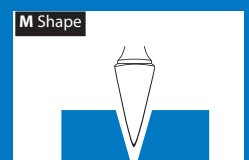
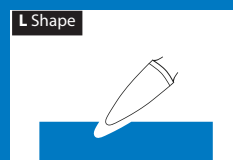
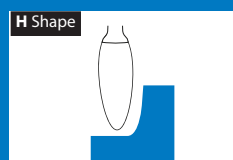
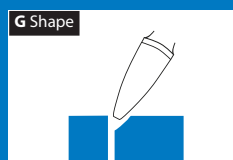
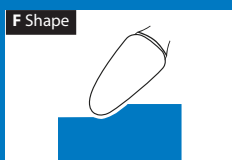
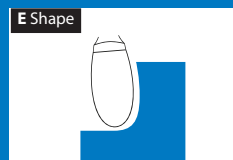
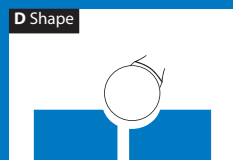
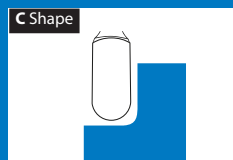
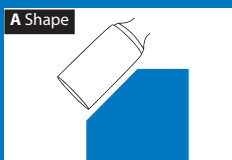
Wear Hearing Protection!



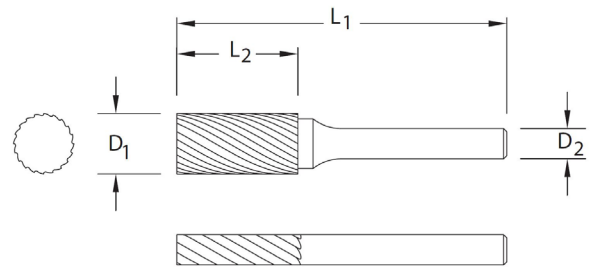
Observe the recommended rotational speed, especially when using burs with long shanks!



Wear Protective Gloves



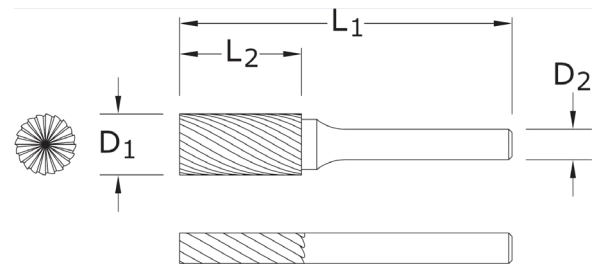
STEEL RANGE A



Steel A - Cylinder without Endcut

Product Code	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1
KA60618-6STEEL	6.0	18.0	6.0	50.0
KA60820-6STEEL	8.0	19.0	6.0	64.0
KA61020-6STEEL	9.6	19.0	6.0	64.0
KA61225-6STEEL	12.7	25.0	6.0	70.0

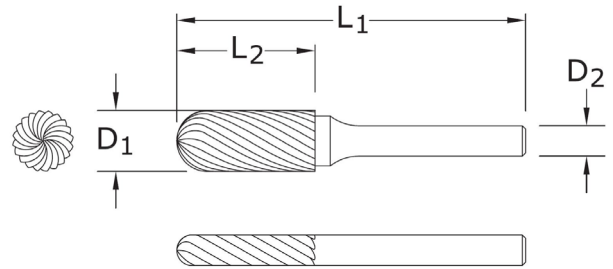
STEEL RANGE B



Steel B - Cylinder with Endcut

Product Code	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1
KB60618-6STEEL	6.0	18.0	6.0	50.0
KB60820-6STEEL	8.0	19.0	6.0	64.0
KB61020-6STEEL	9.6	19.0	6.0	64.0
KB61225-6STEEL	12.7	25.0	6.0	70.0

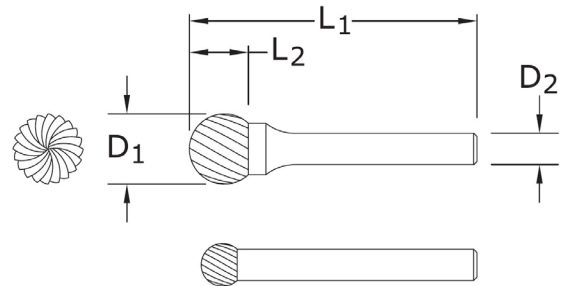
STEEL RANGE C



Steel C - Ball Nosed Cylinder

Product Code	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1
KC60618-6STEEL	6.0	18.0	6.0	50.0
KC60820-6STEEL	8.0	19.0	6.0	64.0
KC61020-6STEEL	9.6	19.0	6.0	64.0
KC61225-6STEEL	12.7	25.0	6.0	70.0

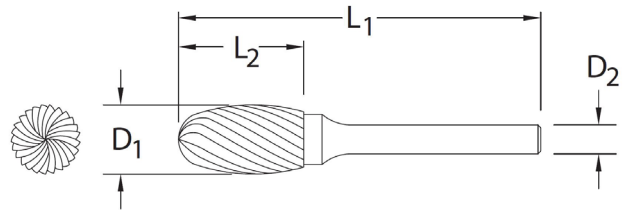
STEEL RANGE D



Steel D - Ball Shape

Product Code	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1
KD60606-6STEEL	6.0	4.7	6.0	50.0
KD60808-6STEEL	8.0	6.0	6.0	52.0
KD61010-6STEEL	9.6	8.0	6.0	54.0
KD61212-6STEEL	12.7	11.0	6.0	56.0

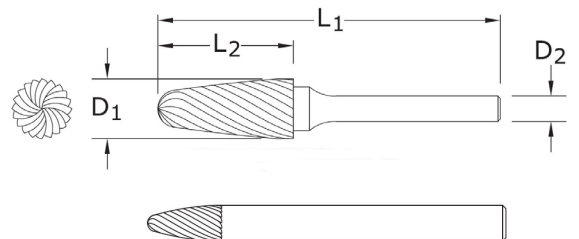
STEEL RANGE E



Steel E - Oval Shape

Product Code	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1
KE61220-6STEEL	12.7	22.0	6.0	67.0

STEEL RANGE F



Steel F - Ball Nosed Tree Shape

Product Code	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1
KF60618-6STEEL	6.0	18.0	6.0	50.0
KF60820-6STEEL	8.0	20.0	6.0	65.0
KF61020-6STEEL	9.6	19.0	6.0	64.0
KF61225-6STEEL	12.7	25.0	6.0	70.0



Wear Eye Protection!



Wear Hearing Protection!

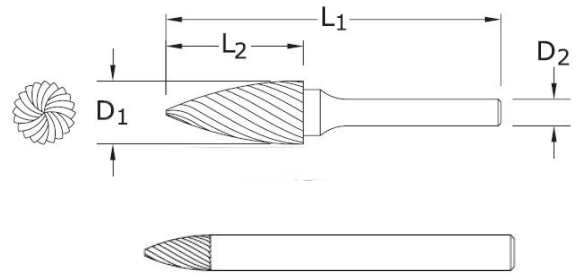


Observe the recommended rotational speed, especially when using burs with long shanks!



Wear Protective Gloves

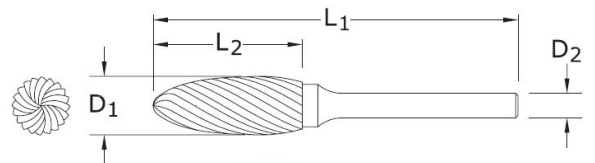
STEEL RANGE G



Steel G - Pointed Tree Shape

Product Code	Cutting Diameter D_1	Length of Cut L_2	Shank Diameter D_2	Overall Length L_1
KG60618-6STEEL	6.0	18.0	6.0	50.0
KG60820-6STEEL	8.0	19.0	6.0	64.0
KG61020-6STEEL	9.6	19.0	6.0	64.0
KG61225-6STEEL	12.7	25.0	6.0	70.0

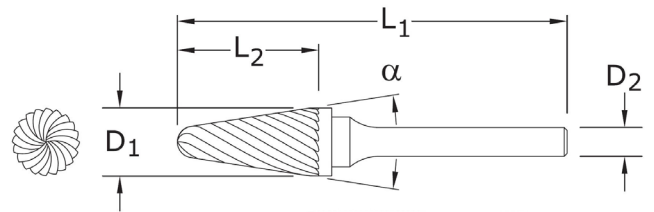
STEEL RANGE H



Steel H - Flame Shape

Product Code	Cutting Diameter D_1	Length of Cut L_2	Shank Diameter D_2	Overall Length L_1
KH60820-6STEEL	8.0	19.0	6.0	65.0
KH61232-6STEEL	12.7	32.0	6.0	77.0

STEEL RANGE L



STEEL L - Ball Nosed Cone Shape

Product Code	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Included Angle a
KL61020-6STEEL	10.0	20.0	6.0	65.0	14°
KL61026-6STEEL	9.6	30.0	6.0	76.0	14°
KL61228-6STEEL	12.7	32.0	6.0	77.0	14°

STEEL RANGE SETS

Features & Benefits - Bur Set

FEATURES

Compact
Versatile assortment

BENEFITS

Easy to carry
Ideal for demonstrations, samplings
or special promotions



Line	Description Type	Type	Contents	Cut - Steel Part No.
Sets	BUR5 STEEL	5pcs STEEL CUT	KB61225-6STEEL; KC61225-6STEEL; KF61225-6STEEL; KG61225-6STEEL; KL61228-6STEEL	>SET12MX-HC-5X6MM-ST
Sets	BUR5 STEEL	5pcs STEEL CUT	KB61020-6STEEL; KC61020-6STEEL; KD61010-6STEEL; KF61020-6STEEL; KL61026-6STEEL	>MORFLX-IF-5X6MM-6ST

STEEL RANGE SPEED GUIDE

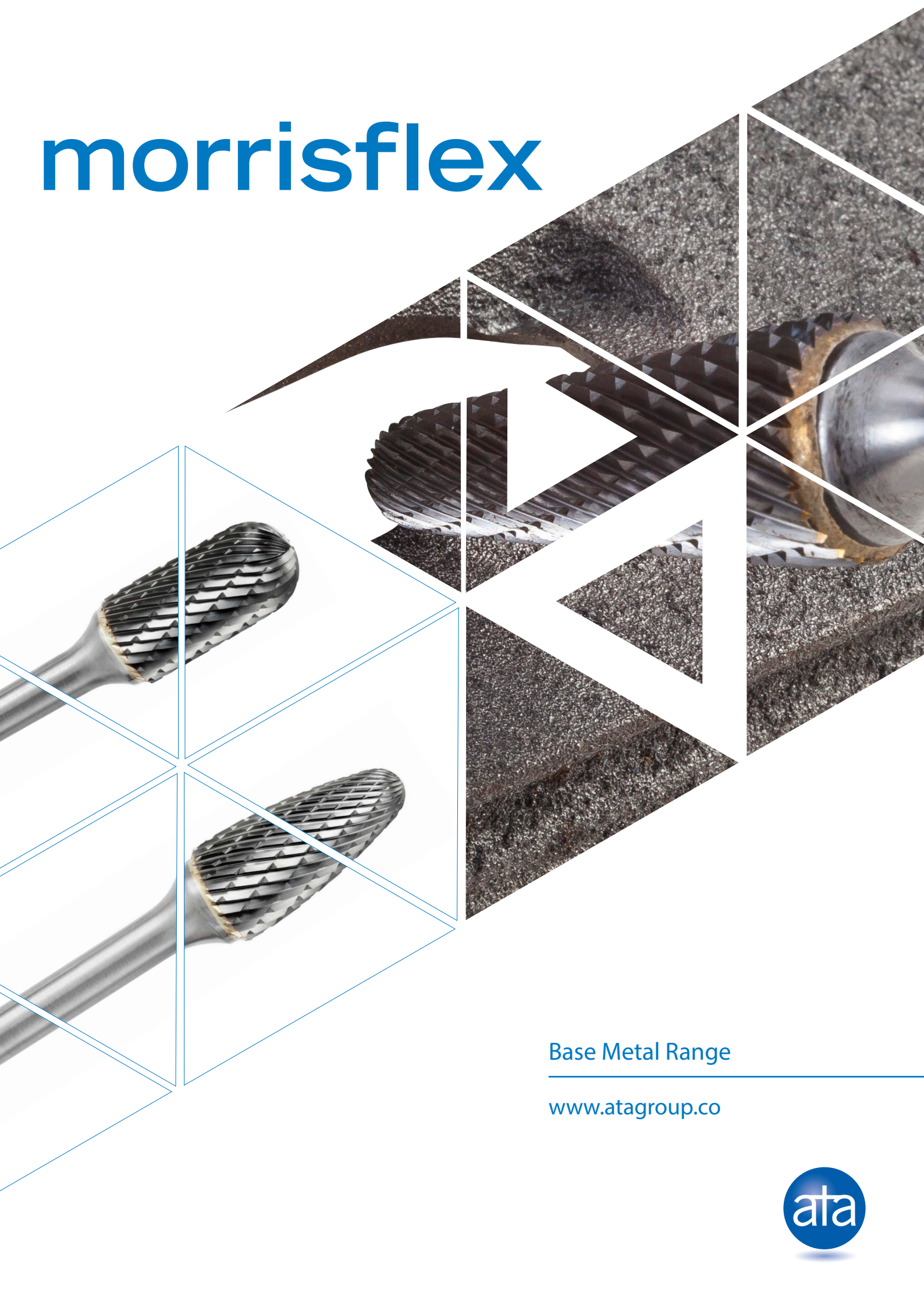
STEEL CONDITION	N/mm2	Material Types
Non Hardened or treated Steel	<1200	Construction steels; Structural steels; Carbon steels, Tool steels
Hardened or treated Steel	>1200	Alloy steel; Hardened and Tempered steel

STEEL	Bur Head Ø	Maximum Operating Speed	Speed Range	Suggested Air Tools
	3mm	100,000	60,000 - 80,000	SP75R / ST100
	6mm	65,000	45,000 - 60,000	SD45LR / S50
	10mm	55,000	30,000 - 40,000	SD30LR / SD37LR
	12mm	35,000	22,000 - 30,000	SMD25LR-CA / SM25LR-CA

Recommended Speeds are based on standard shank length of 45mm; max overhang of 10mm

Front & Rear Exhaust options available for certain models. Refer to ATA Air tool catalogue.

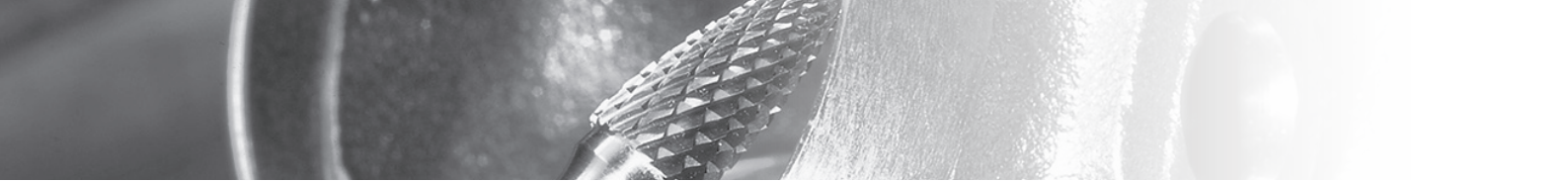
morrisflex



Base Metal Range

www.atagroup.co



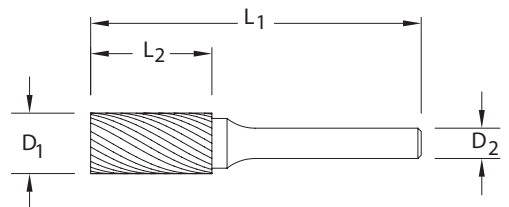


morrisflex BM RANGE

Introducing the new Base Metal Bur range from ATA.

Designed specifically for general deburring applications on metals less than 250 HB*.

The geometry has been specifically designed for use on Low Carbon Steels, Copper and Brass materials.



Features & Benefits:

Advanced cutting geometry

- Allowing rapid stock removal
- Increasing production output
- Resulting in a smoother operation
- Breaking down the material removed efficiently

CNC Machined

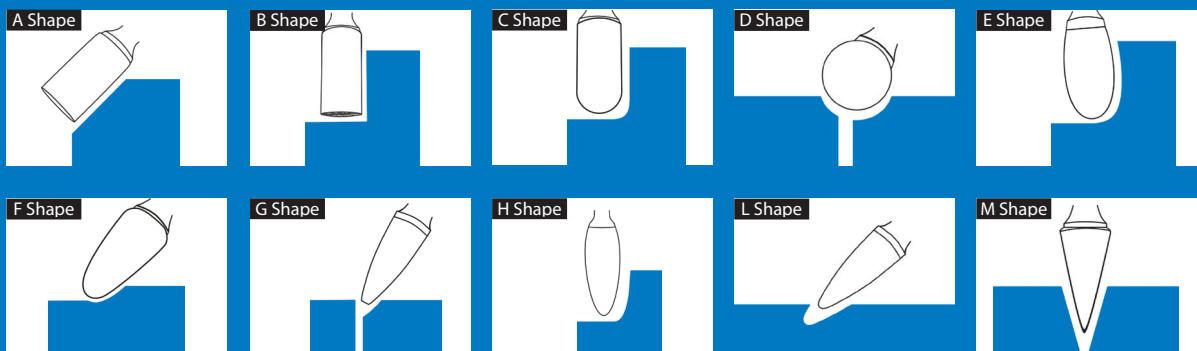
- High consistent quality

Combination of an ATA air tool with a Base Metal geometry –

- Delivering a guaranteed smoother grinding operation
- Maximises productivity

*Hardness Brinell

D1	Cutting Diameter
L2	Length of Cut
D2	Shank Diameter
L1	Overall Length



SHAPE A, ZYA, SA



Cylinder without Endcut - Shape SA, ZYA, SA

Tool	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Part No.
SA-2M	8.0	19.0	6.0	64	KA60820-6BM
SA-3M	9.6	19.0	6.0	64	KA61020-6BM
SA-5M	12.7	25.0	6.0	70	KA61225-6BM

SHAPE B, ZYAS, SB



Cylinder with Endcut - Shape B, ZYAS, SB

Tool	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Part No.
SB-2M	8.0	19.0	6.0	64	KB60820-6BM
SB-3M	9.6	19.0	6.0	64	KB61020-6BM
SB-5M	12.7	25.0	6.0	70	KB61225-6BM

SHAPE C, WRC, SC



Ball Nosed Cylinder - Shape C, WRC, SC

Tool	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Part No.
SC-2M	8.0	19.0	6.0	64	KC60820-6BM
SC-3M	9.6	19.0	6.0	64	KC61020-6BM
	12.7	19.0	6.0	64	KC61220-6BM
SC-5M	12.7	25.0	6.0	70	KC61225-6BM



Wear Eye Protection!



Wear Hearing Protection!



Observe the recommended rotational speed, especially when using burs with long shanks!



Wear Protective Gloves



Wear Protective Mask

SHAPE D, KUD, SD



Ball - Shape D, KUD, SD

Tool	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Part No.
SD-2M	8.0	6.0	6.0	52	KD60808-6BM
SD-3M	9.6	8.0	6.0	54	KD61010-6BM
SD-5M	12.7	11.0	6.0	56	KD61212-6BM

SHAPE E, TRE, SE



Oval - Shape E, TRE, SE

Tool	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Part No.
SE-2M	8.0	15.0	6.0	60	KE60815-6BM
SE-3M	9.6	16.0	6.0	60	KE61015-6BM
SE-5M	12.7	22.0	6.0	67	KE61220-6BM

SHAPE F, RBF, SF



Ball Nosed Tree - Shape F, RBF, SF

Tool	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Part No.
SF-2M	8.0	20.0	6.0	65	KF60820-6BM
SF-3M	9.6	19.0	6.0	64	KF61020-6BM
SF-5M	12.7	25.0	6.0	70	KF61225-6BM

SHAPE G, SPG, SG



Pointed Tree- Shape G, SPG, SG

Tool	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Part No.
SG-2M	8.0	19.0	6.0	64	KG60820-6BM
SG-3M	9.6	19.0	6.0	64	KG61020-6BM
SG-5M	12.7	25.0	6.0	70	KG61225-6BM

SHAPE H, SH



Flame - Shape H, SH

Tool	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Part No.
SH-5M	12.7	32.0	6.0	77	KH61232-6BM

SHAPE L, KEL, SL



Ball Nosed Cone- Shape L, KEL, SL

Tool	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Part No.
SL-2M	8.0	25.4	6.0	70	KL60822-6BM
	10.0	20.0	6.0	65	KL61020-6BM
SL-3M	9.6	30.0	6.0	76	KL61026-6BM
SL-4M	12.7	32.0	6.0	77	KL61228-6BM



Wear Eye Protection!



Wear Hearing Protection!



Observe the recommended rotational speed, especially when using burs with long shanks!



Wear Protective Gloves



Wear Protective Mask

SHAPE M,SKM,SM



Cone- Shape M, SKM, SM

Tool	Cutting Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Part No.
SM-4M	9.6	16.0	6.0	64	KM61020-6BM
SM-5M	12.7	22.0	6.0	71	KM61222-6BM

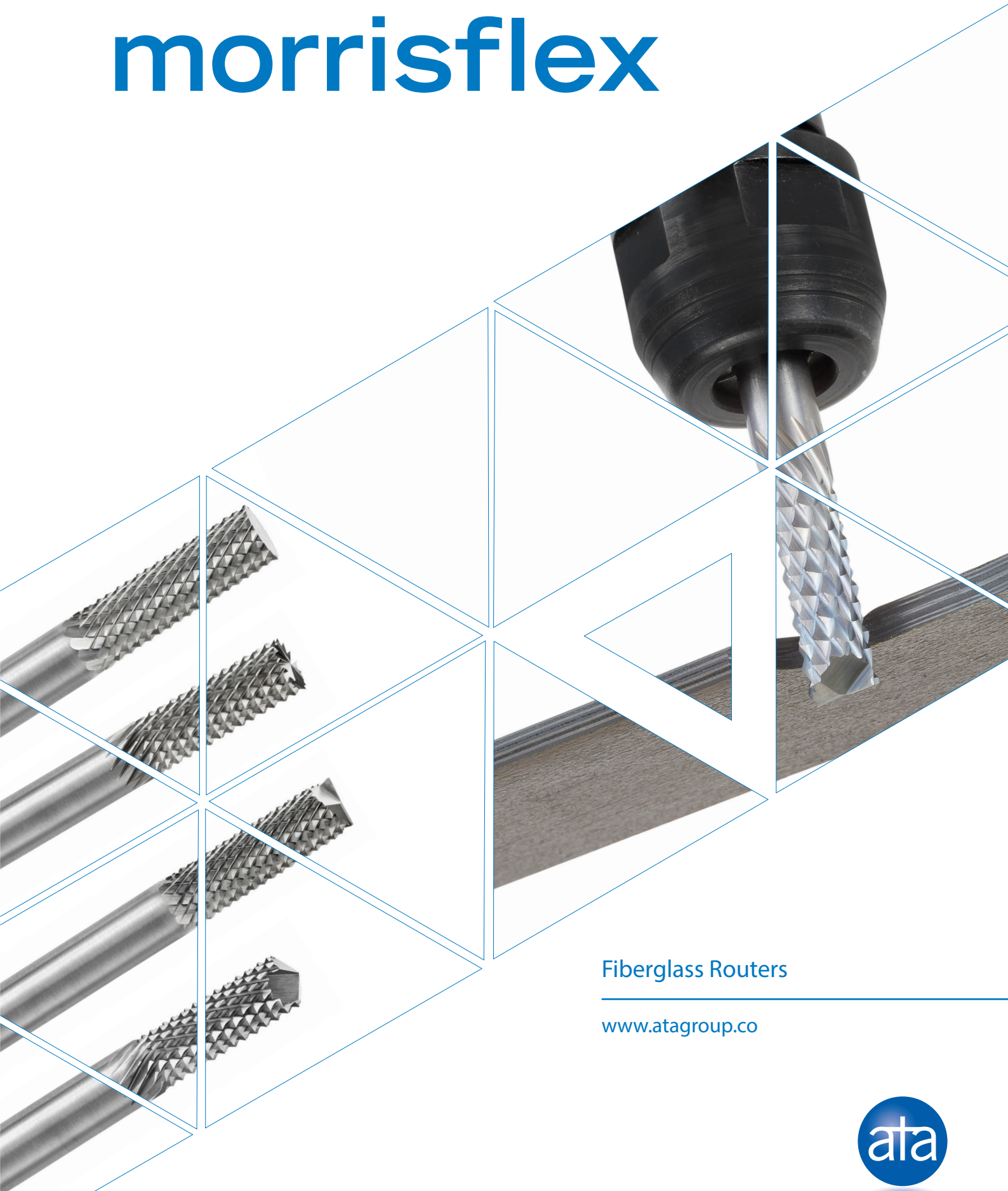
BM RANGE SPEED GUIDE

	Material Groups	HB*	B.S	EN	DIN
Steel	Magnetic Soft	<120	230M07, 050A12	EN1, EN2 Leadloy	RFe60
	Structural case carburising	<200	060A35, 080M40, 4360-50B	EN3A, 4,6,7,8 32	st37-2, 16MnCr5, St50-2
Cast Iron	Lameller graphite	<150	grade 150, grade 400	Grey cast iron soft	GG10, GG40
	Nodular graphite, malleable	<200	420/12, P440/7, 700/2, 30g/72	S.G. iron Mehanite	GGG40, GGG70, GTS45-
Brass, Copper, Bronze	Unalloyed	<100	C101	Commercially Pure	E-Cu57, SE-Cu
	β - Brass, Bronze	<200	CZ120, CZ109, PB104	2.1030, 2.1080	CuZn39Pb2, CuZn40,
	Y - Brass	<200	CZ108, CZ106		CuZn37, CuZn28

Head Diameter	6mm	8mm	10mm	12mm	Suggested Air Tool Ranges
Max. RPM	65,000	60,000	55,000	35,000	
Steel	35,000 - 45,000	30,000 - 40,000	22,500 - 35,000	20,500 - 30,000	S, SD, SM & SMD Die Grinder Ranges*
Cast Iron	22,500 - 45,000	20,000 - 40,000	15,000 - 35,000	11,000 - 30,000	
Brass, Copper, Bronze	22,500 - 45,000	20,000 - 40,000	15,000 - 35,000	11,000 - 30,000	

*Hardness Brinell

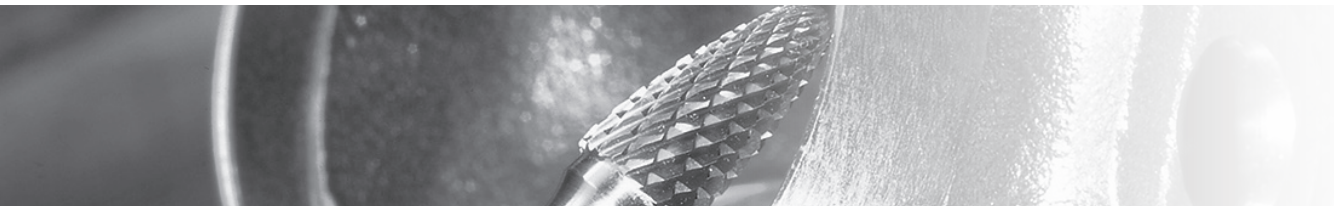
morrisflex



Fiberglass Routers

www.atagroup.co





morrisflex FIBERGLASS ROUTER RANGE

Features

- Special cut style

Benefits

- Best for roughing and contouring composite
- Can be used with hand-held tools or CNC machines
- Can be used on various materials, from large fiberglass panels to small parts made of composite



No End Cut

Product Code	Cutting Diameter	Length of Cut	Shank Diameter	Overall Length
KP30313-8	3.0	12.0	3.0	38.0
KP40416-8	4.0	16.0	4.0	50.0
KP60619-8	6.0	19.0	6.0	63.0
KP80825-8	8.0	25.0	8.0	63.0
KP101025-8	10.0	25.0	10.0	75.0
KP121230-8	12.0	25.0	12.0	75.0



Bur Style

Product Code	Cutting Diameter	Length of Cut	Shank Diameter	Overall Length
KP30313-8E	3.0	12.0	3.0	38.0
KP40416-8E	4.0	16.0	4.0	50.0
KP60619-8E	6.0	19.0	6.0	63.0
KP80825-8E	8.0	25.0	8.0	63.0
KP101025-8E	10.0	25.0	10.0	75.0
KP121230-8E	12.0	25.0	12.0	75.0

Visit our Routers webpage



Recommendations

- The routers are recommended for use on phenolics, fiberglass and hard non-metallic materials
- For best results, FGRs should be rigidly mounted in accurate collet chucks

Applications

- Trimming
- Routing
- Pocketing



Endmill

Product Code	Cutting Diameter	Length of Cut	Shank Diameter	Overall Length
KP30313-8ME	3.0	12.0	3.0	38.0
KP40416-8ME	4.0	16.0	4.0	50.0
KP60619-8ME	6.0	19.0	6.0	63.0
KP80825-8ME	8.0	25.0	8.0	63.0
KP101025-8ME	10.0	25.0	10.0	75.0
KP121230-8ME	12.0	25.0	12.0	75.0



Drillpoint

Product Code	Cutting Diameter	Length of Cut	Shank Diameter	Overall Length
KP30313-8DP	3.0	12.0	3.0	38.0
KP40416-8DP	4.0	16.0	4.0	50.0
KP60619-8DP	6.0	19.0	6.0	63.0
KP80825-8DP	8.0	25.0	8.0	63.0
KP101025-8DP	10.0	25.0	10.0	75.0
KP121230-8DP	12.0	25.0	12.0	75.0



Wear Eye Protection!



Wear Hearing Protection!



Observe the recommended rotational speed, especially when using burs with long shanks!

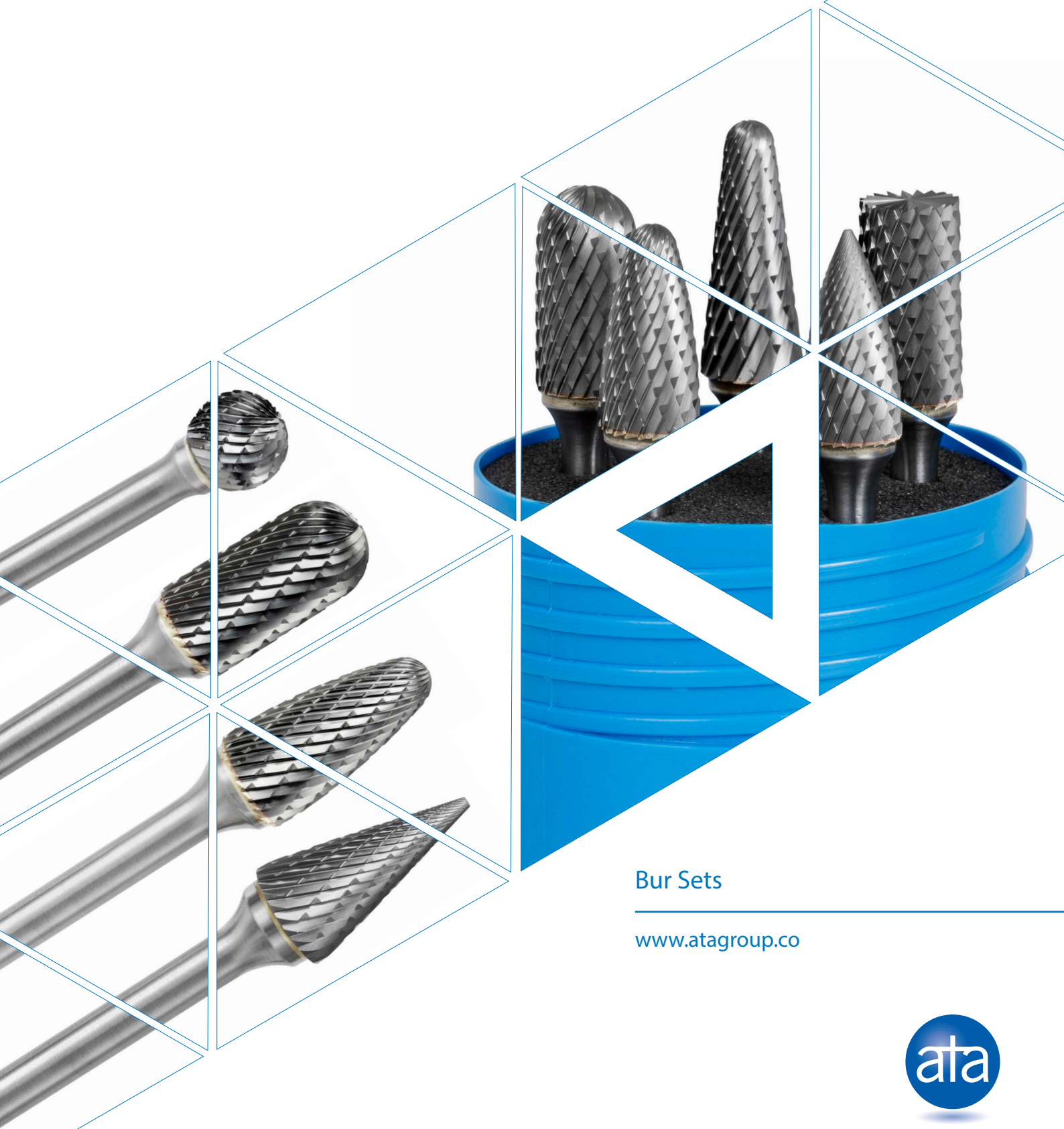


Wear Protective Gloves



Wear Protective Mask

morrisflex



Bur Sets

www.atagroup.co



morrisflex BUR SETS

ATA has selected an assortment of the most popular burs for use in general application. These sets are presented in robust packaging that is:

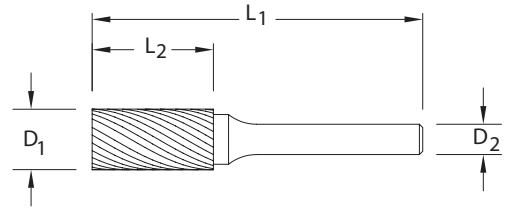
- Easy to carry
- Compact
- Recyclable

Ideal for:

- Demonstrations
- Sampling
- Special promotions

The following sets are all universal double cut sets:

- Suitable for general application
- Offers good control
- Reduced chip size
- Industries - applicable to all industries



D1	Cutting Diameter
L2	Length of Cut
D2	Shank Diameter
L1	Overall Length

- >MORFLX-BK-5X6MM-6
- >MORFLX-BL-5X6MM-6
- >MORFLX-AL-10X6MM-6
- >MORFLX-AT-40X6MM-6
- >MORFLX-HQ-10X3MM-6
- >MORFLX-IE-5X6MM-6



Double Cut - 5 Piece >MORFLX-BK-5X6MM-6

CONTENTS

- 5 piece selection of standard shaped burs
- 9.6mm and 12.7mm cut diameters
- 6mm shanks

Description	Cut Ø	L.O.C	Shk Ø	O.A.L	Incl. angle	Morrisflex No.
Cylinder with endcut	9.6	19.0	6.0	64.0		KB61020-6
Ball nosed cylinder	12.7	25.0	6.0	70.0		KC61225-6
Ball nosed tree	12.7	25.0	6.0	70.0		KF61225-6
Pointed tree	9.6	19.0	6.0	64.0		KG61020-6
Ball nosed cone	12.7	32.0	6.0	77.0	14°	KL61228-6

Double Cut - 5 Piece (9.6mm) >MORFLX-IE-5X6MM-6

CONTENTS

- 5 piece selection of established burs
- 9.6mm cut diameters
- 6mm shanks



Description	Cut Ø	L.O.C	Shk Ø	O.A.L	Incl. angle	Morrisflex No.
Cylinder with endcut	9.6	19.0	6.0	64.0		KB61020-6
Ball nosed cylinder	9.6	19.0	6.0	64.0		KC61020-6
Ball	9.6	8.0	6.0	54.0		KD61010-6
Ball nosed tree	9.6	19.0	6.0	64.0		KF61020-6
Ball nosed cone	9.6	30.0	6.0	76.0	14°	KL61026-6



Double Cut - 5 Piece Set >MORFLX-BL-5X6MM-6

CONTENTS

- 5 piece selection of coated burs
- 9.6mm & 12.7mm cut diameters
- 6mm shanks

Description	Cut Ø	L.O.C	Shk Ø	O.A.L	Incl. angle	Morrisflex No.
Cylinder with endcut	9.6	19.0	6.0	64.0		KB61020-6 TIALN
Ball nosed cylinder	12.7	25.0	6.0	70.0		KC61225-6 TIALN
Ball nosed tree	12.7	25.0	6.0	70.0		KF61225-6 TIALN
Pointed tree	9.6	19.0	6.0	64.0		KG61020-6 TIALN
Ball nosed cone	12.7	32.0	6.0	77.0	14°	KL61228-6 TIALN

Double Cut - 10 Piece Set >MORFLX-AL-10X6MM-6

CONTENTS

- 10 piece selection of standard shaped burs
- 9.6mm & 12.7mm cut diameters
- 6mm shanks



Description	Cut Ø	L.O.C	Shk Ø	O.A.L	Incl. angle	Morrisflex No.
Cylinder with endcut	9.6	19.0	6.0	64.0		KB61020-6
Cylinder with endcut	12.7	25.0	6.0	70.0		KB61225-6
Ball nosed cylinder	9.6	19.0	6.0	64.0		KC61020-6
Ball nosed cylinder	12.7	25.0	6.0	70.0		KC61225-6
Ball	12.7	11.0	6.0	56.0		KD61212-6
Oval	9.6	16.0	6.0	60.0		KE61015-6
Ball nosed tree	12.7	25.0	6.0	70.0		KF61225-6
Tree	9.6	19.0	6.0	64.0		KG61020-6
Tree	12.7	25.0	6.0	70.0		KG61225-6
Ball nosed cone	12.7	32.0	6.0	77.0	14°	KL61228-6



Wear Eye Protection!



Wear Hearing Protection!



Observe the recommended rotational speed, especially when using burs with long shanks!



Wear Protective Gloves



Wear Protective Mask

Double Cut - 40 Piece Display Case >MORFLX-AT-40X6MM-6

40 Piece display case showcases a wider bur offering.

- Counter top display
- Low maintenance
- Heavy duty packaging
- Secure product
- Maximise retail space
- 100% recyclable

Contents include:

- 6mm, 8mm, 9.6mm & 12.7mm diameter
- 6mm shanks
- Five shape configurations



Description	Cut Ø	L.O.C	Shk Ø	O.A.L	Incl. angle	Morrisflex No.
Cylinder with endcut	6.0	18.0	6.0	50.0		KB60618-6
Cylinder with endcut	8.0	19.0	6.0	64.0		KB60820-6
Cylinder with endcut	9.6	19.0	6.0	64.0		KB61020-6
Cylinder with endcut	12.7	25.0	6.0	70.0		KB61225-6
Ball nosed cylinder	6.0	18.0	6.0	50.0		KC60618-6
Ball nosed cylinder	8.0	19.0	6.0	64.0		KC60820-6
Ball nosed cylinder	9.6	19.0	6.0	64.0		KC61020-6
Ball nosed cylinder	12.7	25.0	6.0	70.0		KC61225-6
Ball nosed tree	6.0	18.0	6.0	50.0		KF60618-6
Ball nosed tree	8.0	20.0	6.0	65.0		KF60820-6
Ball nosed tree	9.6	19.0	6.0	64.0		KF61020-6
Ball nosed tree	12.7	25.0	6.0	70.0		KF61225-6
Pointed tree	6.0	18.0	6.0	50.0		KG60618-6
Pointed tree	8.0	19.0	6.0	64.0		KG60820-6
Pointed tree	9.6	19.0	6.0	64.0		KG61020-6
Pointed tree	12.7	25.0	6.0	70.0		KG61225-6
Ball nosed cone	6.0	18.0	6.0	50.0	14°	KL60618-6
Ball nosed cone	8.0	25.4	6.0	70.0	14°	KL60822-6
Ball nosed cone	9.6	30.0	6.0	76.0	14°	KL61026-6
Ball nosed cone	12.7	32.0	6.0	77.0	14°	KL61228-6

Double Cut Miniature - 10 Piece Set >MORFLX-HQ-10X3MM-6

CONTENTS

- 10 piece selection of miniature burs
- 3mm cut diameters
- 3mm shanks

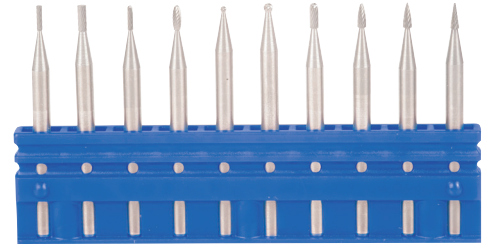


Description	Cut Ø	L.O.C	Shk Ø	O.A.L	Incl. angle	Morrisflex No.
Cylinder w/o endcut	3.0	14.0	3.0	38.0		KA30314-6
Cylinder with endcut	3.0	14.0	3.0	38.0		KB30314-6
Ball nosed cylinder	3.0	14.0	3.0	38.0		KC30312-6
Ball	3.0	2.5	3.0	38.0		KD30303-6
Oval	3.0	6.0	3.0	38.0		KE30306-6
Ball nosed tree	3.0	14.0	3.0	38.0		KF30312-6
Tree	3.0	14.0	3.0	38.0		KG30312-6
Flame	3.0	6.0	3.0	38.0		KH30306-6
Ball nosed cone	3.0	9.5	3.0	38.0	8°	KL30310-6
Cone	3.0	11.0	3.0	38.0	14°	KM30311-6

Micro - 10 Piece Set >BSMICMX-BQ-10X3MM-2

CONTENTS

- 10 piece selection of micro burs
- 1mm and 1.5mm cut diameters
- 3mm shanks



Description	Cut Ø	L.O.C	Shk Ø	O.A.L	Incl. angle	Morrisflex No.
Cylinder w/o endcut	1.0	4.0	3.0	38.0		KA30104-2 MICRO
Cylinder w/o endcut	1.5	4.0	3.0	38.0		KA31.504-2 MICRO
Ball nosed cylinder	1.0	4.0	3.0	38.0		KC30104-2 MICRO
Ball nosed cylinder	1.5	4.0	3.0	38.0		KC31.504-2 MICRO
Ball	1.0	0.9	3.0	38.0		KD30101-2 MICRO
Ball	1.5	1.4	3.0	38.0		KD31.515-2 MICRO
Oval	1.5	4.0	3.0	38.0		KE31.504-2 MICRO
Ball nosed tree	1.5	4.0	3.0	38.0		KF31.504-2 MICRO
Pointed tree	1.5	4.0	3.0	38.0		KG31.504-2 MICRO
Flame	1.5	4.0	3.0	38.0	16°	KM31.504-2 MICRO

Aluminium Cut - 5 Piece Set >MORFLX-BO-5-6MM-3

CONTENTS

- 5 piece selection of standard shaped burs
- 12.7mm cut diameter
- 6mm shanks
- Aluminium cut - maximum stock removal
- Industries - foundry & shipbuilding



Description	Cut Ø	L.O.C	Shk Ø	O.A.L	Incl. angle	Morrisflex No.
Cylinder with endcut	12.7	25.0	6.0	70.0		KB61225-3 TIALN
Ball nosed cylinder	12.7	25.0	6.0	70.0		KC61225-3 TIALN
Ball	12.7	11.0	6.0	56.0		KD61212-3 TIALN
Ball nosed tree	12.7	25.0	6.0	70.0		KF61225-3 TIALN
Ball nosed cone	12.7	32.0	6.0	77.0	14°	KL61228-3 TIALN



Wear Eye Protection!



Wear Hearing Protection!



Observe the recommended rotational speed, especially when using burs with long shanks!



Wear Protective Gloves



Wear Protective Mask

Cut 5 - 5 Piece Set >MORFLX-CN-5X6MM-5

CONTENTS

- 5 piece selection of standard shaped burs
- 12.7mm cut diameter
- 6mm shanks

BENEFITS

- Cut 5 - maximum stock removal
- Industries - foundry and ship building steel applications



Description	Cut Ø	L.O.C	Shk Ø	O.A.L	Incl. angle	Morrisflex No.
Cylinder with endcut	12.7	25.0	6.0	70.0		KB61225-5
Ball nosed cylinder	12.7	25.0	6.0	70.0		KC61225-5
Ball nosed tree	12.7	25.0	6.0	70.0		KF61225-5
Pointed tree	12.7	25.0	6.0	70.0		KG61225-5
Ball nosed cone	12.7	32.0	6.0	70.0	14°	KL61228-5

AS RANGE SET

FEATURES

- Compact
- Versatile assortment

BENEFITS

- Easy to carry
- Ideal for demonstrations, samplings or special promotions



Line	Description Type	Contents	Alloy Specific Part No.
Sets	10 pcs Alloy Specific Cut	KA30312-6AS; KC30312-6AS; KD30303-6AS; KE30306-6AS; KF30312-6AS; KG30308-6AS; KG30314-6AS; KH30306-6AS; KL30314-6AS; KM30315-6AS	>MORFLX-IS-10X3MM-6AS

INNOVATION BUR SETS

Inox Range - 5 Piece Set >SET11MX-HB-5X6MM-IX

CONTENTS

- 5 piece selection of standard shaped burs
- 12.7mm cut diameter
- 6mm shanks

BENEFITS

- Developed cutting geometry
- High performance grinding
- Reduces heat build up on the workpiece

See the bur in action!



Description	Cut Ø	L.O.C	Shk Ø	O.A.L	Morrisflex No.
Cylinder without endcut	12.7	25.0	6.0	70.0	KA61225-3INOX
Ball nosed cylinder	12.7	25.0	6.0	70.0	KC61225-3INOX
Ball nosed tree	12.7	25.0	6.0	70.0	KF61225-3INOX
Pointed tree	12.7	25.0	6.0	70.0	KG61225-3INOX
Ball nosed cone	12.7	32.0	6.0	77.0	KL61228-3INOX

Inox Range - 5 Piece Set (9.6mm) >MORFLX-IG-5X6MM-3IN

CONTENTS

- 5 Piece Selection of established burs
- 9.6mm cut diameter
- 6mm shanks



Description	Cut Ø	L.O.C	Shk Ø	O.A.L	Incl. angle	Morrisflex No.
Cylinder without endcut	9.6	19.0	6.0	64.0		KA61020-3INOX
Ball nosed cylinder	9.6	19.0	6.0	64.0		KC61020-3INOX
Ball	9.6	8.0	6.0	54.0		KD61010-3INOX
Ball nosed tree	9.6	19.0	6.0	64.0		KF61020-3INOX
Ball nosed cone	10.0	20.0	6.0	65.0	14°	KL61020-3INOX

INNOVATION BUR SETS

Steel Range - 5 Piece Set >SET12MX-HC-5X6MM-ST

CONTENTS

- 5 piece selection of standard shaped burs
- 12.7mm cut diameter
- 6mm shanks

BENEFITS

- Increasing machine output on steel components
- Aggressive cutting form
- Specifically engineered steel cutting geometry

See the bur in action!



Description	Cut Ø	L.O.C	Shk Ø	O.A.L	Morrisflex No.
Cylinder with endcut	12.7	25.0	6.0	70.0	KB61225-6STEEL
Ball nosed cylinder	12.7	25.0	6.0	70.0	KC61225-6STEEL
Ball nosed tree	12.7	25.0	6.0	70.0	KF61225-6STEEL
Pointed tree	12.7	25.0	6.0	70.0	KG61225-6STEEL
Ball nosed cone	12.7	32.0	6.0	77.0	KL61228-6STEEL

Steel Cut - 5 Piece Set (9.6mm) >MORFLX-IF-5X6MM-6ST

CONTENTS

- 5 Piece Selection of established burs
- 9.6mm cut diameter
- 6mm shanks



Description	Cut Ø	L.O.C	Shk Ø	O.A.L	Incl. angle	Morrisflex No.
Cylinder with endcut	9.6	19.0	6.0	64.0		KB61020-6STEEL
Ball nosed cylinder	9.6	19.0	6.0	64.0		KC61020-6STEEL
Ball	9.6	8.0	6.0	54.0		KD61010-6STEEL
Ball nosed tree	9.6	19.0	6.0	64.0		KF61020-6STEEL
Ball nosed cone	9.6	30.0	6.0	76.0	14°	KL61026-6STEEL



Wear Eye Protection!



Wear Hearing Protection!



Observe the recommended rotational speed, especially when using burs with long shanks!



Wear Protective Gloves



Wear Protective Mask

morrisflex



New Geometry Bur Sets

www.atagroup.co



NEW GEOMETRY BUR SETS

The Radius bur sets contain an exclusive range of multi-application burs that cover all general metal removal, thanks to the exclusive inverted curve design.

5 Piece Chamfer Application Set >RADMF-FF-5X6MM-VAR

CONTENTS

- 12.7mm and 16mm cutting diameter
- 6mm shanks

BENEFITS

- Easy control
- Reduce downtime
- Creates smooth radius



Description	Cut Ø	L.O.C	Shk Ø	O.A.L	Morrisflex No.
Double Inverted 45°	16.0	15.0	6.0	60.0	KKN61515-2
Radius/Cylinder w endcut	12.7	25.0	6.0	70.0	KBMN61225-6F
Radius/ Cylinder ball nosed	12.7	25.0	6.0	70.0	KCMN61225-6F
Radius/Ball nosed tree	12.7	35.0	6.0	80.0	KFMN61235-6F
Radius/Cylinder/Countersink 90°	12.7	28.0	6.0	73.0	KKMN61228-6F

See the bur in action!



10 Piece Radius Application Set >RADMF-FG-10X6MM-VAR

CONTENTS

- 12.7mm cut diameter
- 6mm shanks



Description	Cut Ø	L.O.C	Shk Ø	O.A.L	Morrisflex No.
Radius/Cylinder	12.7	25.0	6.0	70.0	KAMN61225-6F
Radius/Cylinder w endcut	12.7	25.0	6.0	70.0	KBMN61225-6F
Radius/ Cylinder ball nosed	12.7	25.0	6.0	70.0	KCMN61225-2
Radius/ Cylinder ball nosed	12.7	25.0	6.0	70.0	KCMN61225-2F
Radius/ Cylinder ball nosed	12.7	25.0	6.0	70.0	KCMN61225-6F
Radius/Ball nosed tree	12.7	35.0	6.0	80.0	KFMN61235-6F
Radius/Tree	12.7	35.0	6.0	80.0	KGMN61235-6F
Radius/ Countersink 60°	12.7	31.0	6.0	76.0	KJMN61231-6F
Radius/Cylinder/Countersink 90°	12.7	28.0	6.0	73.0	KKMN61228-6F
Radius/Ball nose cone	12.7	35.0	6.0	80.0	KLMN61235-6F



The Combi bur sets include high performance, multi-purpose burs for the various industries. This innovative design allows for less downtime and covers multiple applications.

5 Piece Multi Purpose Set >COMBIMF-FH-5X6MM-6

CONTENTS

- 12.7mm & 16mm cut diameter
- 6mm shanks

BENEFITS

- Better performance
- Suit complex application
- Consistent performance



Description	Cut Ø	L.O.C	Shk Ø	O.A.L	Morrisflex No.
Inverted/Ball	12.7	20.0	6.0	65.0	KDN61220-6
Cylinder/Countersink 60°	12.7	25.0	6.0	70.0	KJA61225-6
Inverted/Countersink 90°	12.7	18.0	6.0	64.0	KKN61218-6
Double Inverted 45°	16.0	15.0	6.0	60.0	KKN61515-2
Double Inverted	12.7	25.0	6.0	70.0	KNN61225-6

10 Piece Multi Application Set >COMBIMF-FI-10X6MM-6

CONTENTS

- 12.7mm cut diameter
- 6mm shanks



Description	Cut Ø	L.O.C	Shk Ø	O.A.L	Morrisflex No.
Inverted/Cylinder endcut	12.7	25.0	6.0	70.0	KBN61225-6
Inverted/Ball	12.7	20.0	6.0	65.0	KDN61220-2
Inverted/Ball nosed tree	12.7	32.0	6.0	77.0	KFN61232-6
Inverted/Tree	12.7	32.0	6.0	77.0	KGN61232-6
Inverted/Countersink 60°	12.7	23.0	6.0	68.0	KJN61223-6
Cylinder/Countersink 90°	12.7	25.0	6.0	70.0	KKA61225-6
Inverted/Countersink 90°	12.7	18.0	6.0	64.0	KKN61218-6
Inverted/Ball nosed cone	12.7	32.0	6.0	77.0	KLN61232-6
Inverted/Cone	12.7	35.0	6.0	80.0	KMN61235-6
Double Inverted	12.7	25.0	6.0	70.0	KNN61225-6



Wear Eye Protection!



Wear Hearing Protection!



Observe the recommended rotational speed, especially when using burs with long shanks!



Wear Protective Gloves



Wear Protective Mask



The Corner Radius bur set has been specially designed to meet the high manufacturing standards. The radius design at the top allows for extended tool life.

Corner Radius - 6 Piece Set >CRADMF-FJ-6XVAR-6

CONTENTS

- 3mm, 6mm, 8mm, 9.6mm, 12.7mm and 16mm cut diameter
- 3mm and 6mm shanks

BENEFITS

- Flute strength
- Prevents from digging
- Reduces flute chipping



Description	Cut Ø	L.O.C	Shk Ø	O.A.L	Morrisflex No.
Cylinder w Radius	3.0	14.0	3.0	38.0	KA30314-6 RAD
Cylinder w Radius	6.0	18.0	6.0	50.0	KA60618-6 RAD
Cylinder w Radius	8.0	20.0	6.0	64.0	KA60820-6 RAD
Cylinder w Radius	9.6	19.0	6.0	64.0	KA61020-6 RAD
Cylinder w Radius	12.7	25.0	6.0	70.0	KA61225-6 RAD
Cylinder w Radius	16.0	25.0	6.0	70.0	KA61525-6 RAD

See the bur in action!



- **Always operate the bur within the recommended speeds guide. For guidance see page 5.**
- **Always select the appropriate shape, diameter and cut style for the application.**
- **Always ensure the appropriate tool is used and that it is regularly maintained.**
- **Always fix the maximum length of bur in the collet. Do not exceed the recommended maximum over hang. For guidance see page 5.**
- **Always use a smooth cutting action with constant movement in both directions.**
- **Don't Run bur above the maximum operating speed, this can cause premature tooth wear.**
- **Don't Run a bur too slowly, this can cause chipping.**
- **Don't Sink the bur to more than one third of its periphery. Do not encapsulate.**
- **Don't Allow bur to become too hot, this may cause the braze to soften and cause the head to become detached from the shank (only applies to burs where head diameter is greater than the shank diameter).**



Wear Eye Protection!



Wear Hearing Protection!



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Wear Protective Gloves

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