

# morrisflex

part of the  group



Tungsten Carbide Rotary Burrs

[www.morrisflex.co.uk](http://www.morrisflex.co.uk)

# Introduction



Morrisflex is an internationally renowned brand of high quality carbide burrs 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 UK office offers a centre for excellence in customer service advising our customers on the most effective and safe use of our products. 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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 A - Shape 6

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 B - Shape 7

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 C - Shape 8

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 D - Shape 9
















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 E - Shape 10

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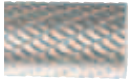
 F - Shape 11

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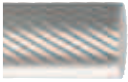
	G - Shape	12
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# Cut Selection Guide

## 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

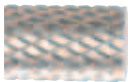
## Special Cut Types



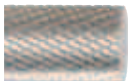
**Cut 1** - Coarse cut for metal removal and finishing applications on non-ferrous metal alloys



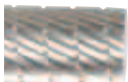
**Cut 4** - Fine cut for improved finish on all ferrous metals



**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

## Cut Selection Guide

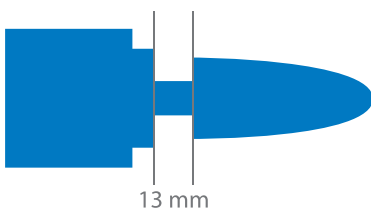
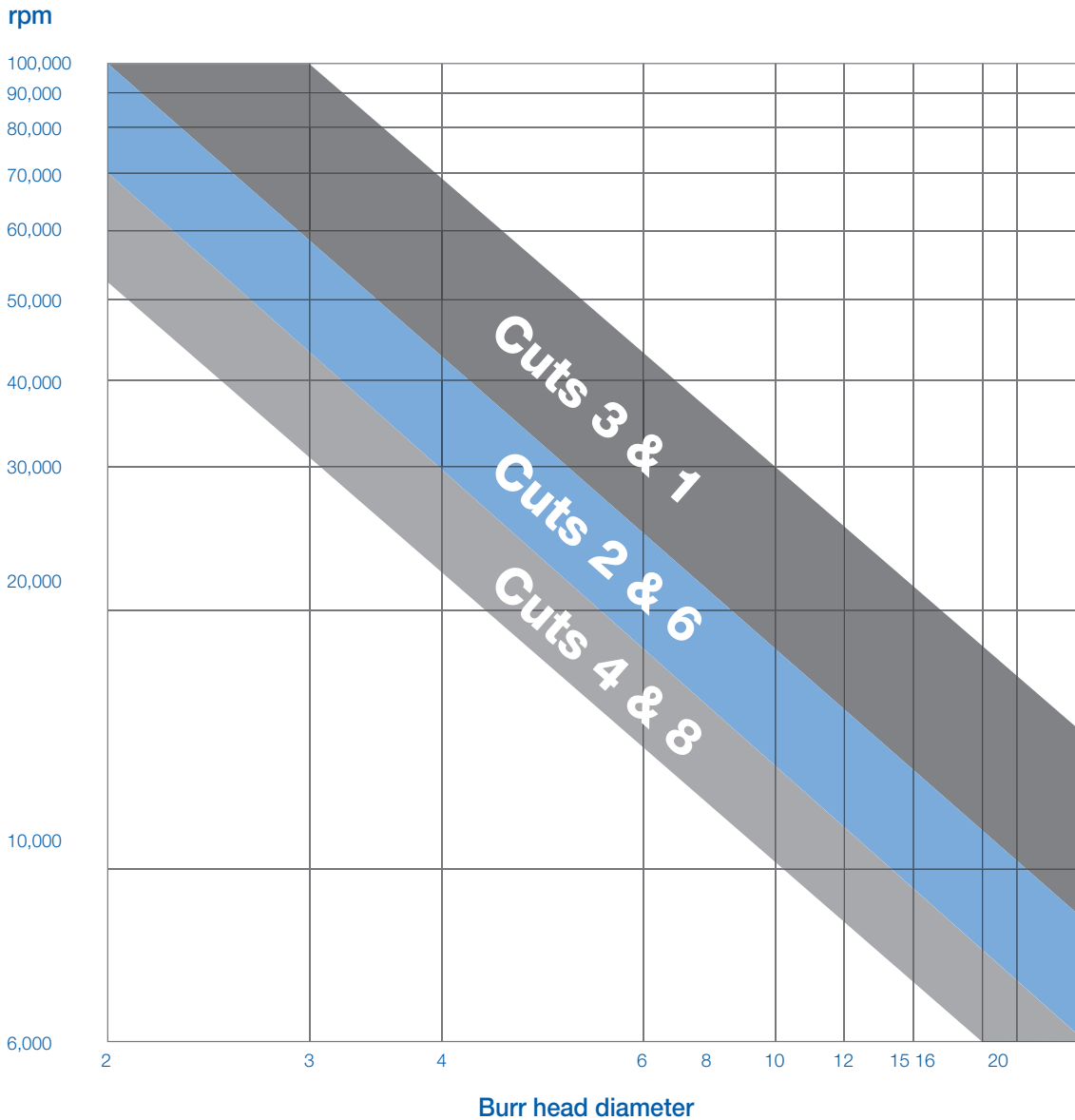
Material	Standard Cut Types			Special Cut Types					
	Cut 6	Cut 2	Cut 3	Cut 1	Cut 4	Cut 5	Cut 8	Cut 9	Cut 10
Aluminium, Plastic			●						○
Brass, Copper, Cast Iron, Bronze	●	●		○	○	●	○	○	
Unhardened Steel	●	●			○	●	○	○	
Hardened Steels, Stainless Steels, Nimonic Alloys, Titanium	●	●			●	○	●	○	

○ Recommended

● Highly Recommended

# Speed Guide

## Recommended Operating Speeds



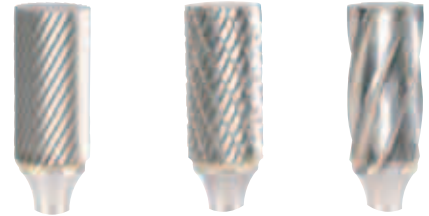
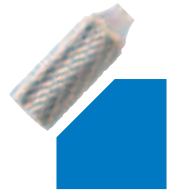
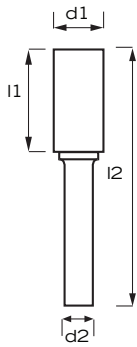
**WARNING:** These are recommended speeds for Standard Length Burrs with 13 mm maximum overhang. Long Shank Burrs are generally subject to much lower maximum safe speeds.

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



# 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	Brazed
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	-
KA61225-2	KA61225-6	KA61225-3
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

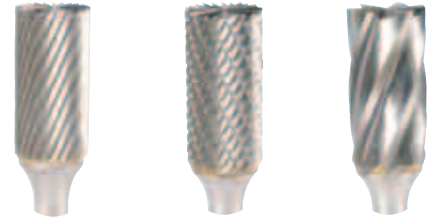
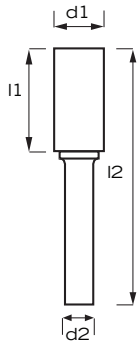
### Part Numbers

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

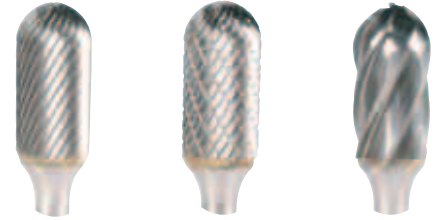
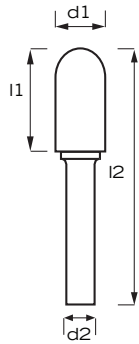
### Part Numbers

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
11.0	25.0	6.0	70.0	Brazed
12.0	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

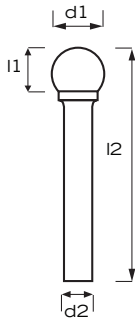
### Part Numbers

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

d1	l1	d2	l2	Type
2.0	1.8	3.0	38.0	Solid
2.5	2.3	3.0	38.0	Solid
3.0	2.5	3.0	38.0	Solid
4.0	3.4	3.0	38.0	Solid
5.0	4.7	3.0	38.0	Solid
6.3	5.0	3.0	38.0	Brazed

### Part Numbers

Cut 2	Cut 6	Cut 3
KD30202-2	KD30202-6	-
KD32.52.5-2	KD32.52.5-6	-
KD30303-2	KD30303-6	KD30303-3
KD30404-2	KD30404-6	KD30404-3
KD30505-2	KD30505-6	-
KD30606-2	KD30606-6	KD30606-3

6mm  
shank

### Dimensions - All in mm

d1	l1	d2	l2	Type
3.0	2.5	6.0	50.0	Solid
4.0	3.0	6.0	50.0	Solid
5.0	4.0	6.0	50.0	Solid
6.0	4.7	6.0	50.0	Solid
8.0	6.0	6.0	52.0	Brazed
9.6	8.0	6.0	54.0	Brazed
11.0	9.5	6.0	55.0	Brazed
12.7	11.0	6.0	56.0	Brazed
16.0	14.0	6.0	59.0	Brazed
19.0	16.5	6.0	62.0	Brazed
25.0	22.0	6.0	67.0	Brazed

### Part Numbers

Cut 2	Cut 6	Cut 3
KD60303-2	KD60303-6	-
KD60404-2	KD60404-6	-
KD60505-2	KD60505-6	-
KD60606-2	KD60606-6	KD60606-3
KD60808-2	KD60808-6	KD60808-3
KD61010-2	KD61010-6	KD61010-3
KD61111-2	KD61111-6	-
KD61212-2	KD61212-6	KD61212-3
KD61515-2	KD61515-6	KD61515-3
KD62020-2	KD62020-6	KD62020-3
KD62525-2	KD62525-6	KD62525-3

8mm  
shank

### Dimensions - All in mm

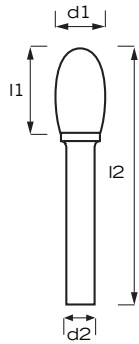
d1	l1	d2	l2	Type
12.7	11.0	8.0	56.0	Brazed
16.0	14.0	8.0	59.0	Brazed
19.0	16.5	8.0	62.0	Brazed
25.0	22.0	8.0	67.0	Brazed

### Part Numbers

Cut 2	Cut 6	Cut 3
KD81212-2	KD81212-6	KD81212-3
KD81515-2	KD81515-6	KD81515-3
KD82020-2	KD82020-6	KD82020-3
KD82525-2	KD82525-6	KD82525-3

# Oval

Shape: E, TRE, SE



## 3mm shank

### Dimensions - All in mm

d1	l1	d2	l2	Type
3.0	6.0	3.0	38.0	Solid
5.0	8.0	3.0	38.0	Solid
6.3	9.5	3.0	42.0	Brazed

### Part Numbers

Cut 2	Cut 6	Cut 3
KE30306-2	KE30306-6	KE30306-3
KE30508-2	KE30508-6	-
KE30610-2	KE30610-6	KE30610-3

## 6mm shank

### Dimensions - All in mm

d1	l1	d2	l2	Type
6.0	10.0	6.0	50.0	Solid
8.0	15.0	6.0	60.0	Brazed
9.6	16.0	6.0	60.0	Brazed
12.7	22.0	6.0	67.0	Brazed
16.0	25.0	6.0	70.0	Brazed
19.0	25.0	6.0	70.0	Brazed

### Part Numbers

Cut 2	Cut 6	Cut 3
KE60610-2	KE60610-6	KE60610-3
KE60815-2	KE60815-6	KE60815-3
KE61015-2	KE61015-6	KE61015-3
KE61220-2	KE61220-6	KE61220-3
KE61525-2	KE61525-6	KE61525-3
KE62025-2	KE62025-6	KE62025-3

## 8mm shank

### Dimensions - All in mm

d1	l1	d2	l2	Type
12.7	22.0	8.0	67.0	Brazed
16.0	25.0	8.0	70.0	Brazed
19.0	25.0	8.0	70.0	Brazed

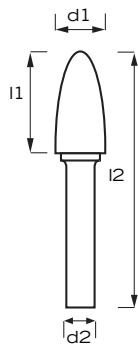
### Part Numbers

Cut 2	Cut 6	Cut 3
KE81220-2	KE81220-6	KE81220-3
KE81525-2	KE81525-6	KE81525-3
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

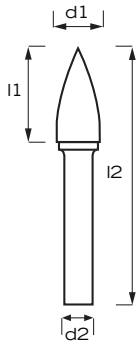
### Part Numbers

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
KG61530-2	KG61530-6	-
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

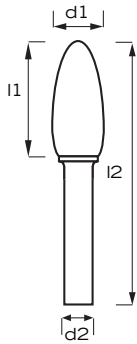
### Part Numbers

Cut 2	Cut 6	Cut 3
KG81225-2	KG81225-6	KG81225-3
KG81230-2	KG81230-6	-
KG81525-2	KG81525-6	KG81525-3
KG81530-2	KG81530-6	-
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

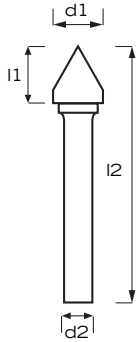
d1	l1	d2	l2	Type
12.7	32.0	8.0	77.0	Brazed
16.0	36.0	8.0	81.0	Brazed
19.0	41.0	8.0	86.0	Brazed

### 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

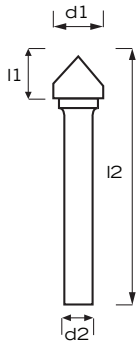
d1	l1	d2	l2	Type
12.7	11.0	8.0	59.0	Brazed
16.0	14.5	8.0	63.0	Brazed
19.0	17.5	8.0	65.0	Brazed
25.0	24.5	8.0	70.0	Brazed

### 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
3.0	1.5	3.0	38.0	Solid

Part Numbers

Cut 2	Cut 6
KK30303-2	KK30303-6

6mm  
shank

Dimensions - All in mm

d1	l1	d2	l2	Type
6.0	3.0	6.0	50.0	Solid
9.6	4.7	6.0	53.0	Brazed
12.7	6.3	6.0	55.0	Brazed
16.0	8.0	6.0	57.0	Brazed
19.0	9.5	6.0	59.0	Brazed
25.0	12.7	6.0	61.0	Brazed

Part Numbers

Cut 2	Cut 6
KK60603-2	KK60603-6
KK61004-2	KK61004-6
KK61206-2	KK61206-6
KK61508-2	KK61508-6
KK62012-2	KK62012-6
KK62512-2	KK62512-6

8mm  
shank

Dimensions - All in mm

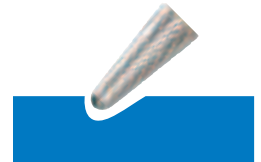
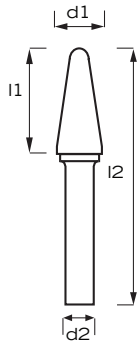
d1	l1	d2	l2	Type
12.7	6.3	8.0	55.0	Brazed
16.0	8.0	8.0	57.0	Brazed
19.0	9.5	8.0	59.0	Brazed
25.0	12.7	8.0	61.0	Brazed

Part Numbers

Cut 2	Cut 6
KK81206-2	KK81206-6
KK81508-2	KK81508-6
KK82012-2	KK82012-6
KK82512-2	KK82512-6

# Ball Nose Cone

Shape: L, KEL, SL



## 3mm shank

### Dimensions - All in mm

d1	l1	d2	l2	Type	Angle
3.0	10.0	3.0	38.0	Solid	10°
3.0	14.0	3.0	38.0	Solid	8°
5.0	12.7	3.0	38.0	Solid	14°
6.3	15.8	3.0	48.0	Brazed	22°

### Part Numbers

Cut 2	Cut 6	Cut 3
KL30310-2	KL30310-6	-
KL30312-2	KL30312-6	KL30312-3
KL30512-2	KL30512-6	-
KL30612-2	KL30612-6	KL30612-3

## 6mm shank

### Dimensions - All in mm

d1	l1	d2	l2	Type	Angle
6.0	18.0	6.0	50.0	Solid	14°
8.0	25.4	6.0	70.0	Brazed	14°
10.0	20.0	6.0	65.0	Brazed	14°
9.6	30.0	6.0	76.0	Brazed	14°
12.0	25.0	6.0	70.0	Brazed	14°
12.7	32.0	6.0	77.0	Brazed	14°
16.0	33.0	6.0	78.0	Brazed	14°
19.0	41.0	6.0	86.0	Brazed	14°

### Part Numbers

Cut 2	Cut 6	Cut 3
KL60618-2	KL60618-6	KL60618-3
KL60822-2	KL60822-6	KL60822-3
KL61020-2	KL61020-6	KL61020-3
KL61026-2	KL61026-6	KL61026-3
KL61225-2	KL61225-6	-
KL61228-2	KL61228-6	KL61228-3
KL61533-2	KL61533-6	KL61533-3
KL62038-2	KL62038-6	-

## 8mm shank

### Dimensions - All in mm

d1	l1	d2	l2	Type	Angle
12.7	32.0	8.0	77.0	Brazed	14°
16.0	33.0	8.0	78.0	Brazed	14°
19.0	41.0	8.0	86.0	Brazed	14°

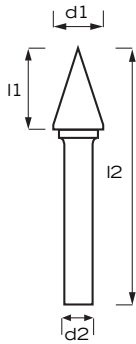
### Part Numbers

Cut 2	Cut 6	Cut 3
KL81228-2	KL81228-6	KL81228-3
KL81533-2	KL81533-6	KL81533-3
KL82038-2	KL82038-6	-



## Cone

Shape: M, SKM, SM



3mm  
shank

### Dimensions - All in mm

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

### Part Numbers

6mm  
shank

### Dimensions - All in mm

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	-

### Part Numbers

8mm  
shank

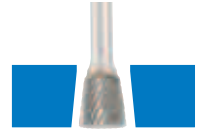
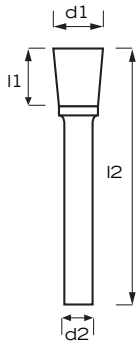
### Dimensions - All in mm

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	-

### Part Numbers

# Inverted Cone

Shape: N, WKN, SN



## 3mm shank

### Dimensions - All in mm

d1	l1	d2	l2	Type	Angle
3.0	4.0	3.0	38.0	Solid	10°
3.0	4.0	3.0	38.0	Solid	10°
6.3	6.0	3.0	39.0	Brazed	12°
6.3	6.4	3.0	39.0	Brazed	12°

### Part Numbers

Cut 2	Cut 6
KN30304-2	KN30304-6
KN30304-2E*	KN30304-6E*
KN30606-2	KN30606-6
KN30606-2E*	KN30606-6E*

\* Inverted Cone with Endcut

## 6mm shank

### Dimensions - All in mm

d1	l1	d2	l2	Type	Angle
6.0	8.0	6.0	50.0	Solid	10°
9.6	9.5	6.0	55.0	Brazed	16°
12.7	12.7	6.0	58.0	Brazed	28°
16.0	19.0	6.0	64.0	Brazed	18°
19.0	16.0	6.0	61.0	Brazed	30°

### Part Numbers

Cut 2	Cut 6
KN60606-2	KN60606-6
KN61010-2	KN61010-6
KN61212-2	KN61212-6
KN61520-2	KN61520-6
KN62015-2	KN62015-6

## 8mm shank

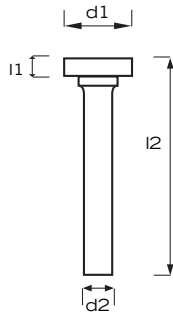
### Dimensions - All in mm

d1	l1	d2	l2	Type	Angle
12.7	12.7	8.0	58.0	Brazed	28°
16.0	19.0	8.0	64.0	Brazed	18°
19.0	16.0	8.0	61.0	Brazed	30°

### Part Numbers

Cut 2	Cut 6
KN81212-2	KN81212-6
KN81520-2	KN81520-6
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
10.0	1.6	3.0	34.0	A

### Part Numbers

Cut 2
KA3101.6-2

## 6mm shank

### Dimensions - All in mm

d1	l1	d2	l2	Type
12	2.6	6.0	48.0	A
25.0	3.2	6.0	48.0	RAR
25.0	5.5	6.0	50.0	RA
25.0	6.3	6.0	51.0	R
38.0	6.1	6.0	51.0	RAR

### Part Numbers

Cut 2
KA6122.6-2
KRAR62503-2
KRA62505-2
KR62506-2
KRAR63806-2

## 8mm shank

### Dimensions - All in mm

d1	l1	d2	l2	Type
25	3.2	8.0	48.0	RAR
25.0	5.5	8.0	50.0	RA
25.0	6.3	8.0	51.0	R
38.0	6.1	8.0	51.0	RAR

### Part Numbers

Cut 2
KRAR82503-2
KRA82505-2
KR82506-2
KRAR83806-2

# Miniature Range

## Cylinder without Endcut - Shape A, ZYA, SA



### 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
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

## Cylinder with Endcut - Shape B, ZYAS, SB



### 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

## Ball Nosed Cylinder - Shape C, WRC, SC



### 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

## Ball - Shape D, KUD, SD



### Dimensions - All in mm

d1	l1	d2	l2	Type
2.0	1.8	3.0	38.0	Solid
2.5	2.3	3.0	38.0	Solid
3.0	2.5	3.0	38.0	Solid
4.0	3.4	3.0	38.0	Solid
5.0	4.7	3.0	38.0	Solid
6.3	5.0	3.0	38.0	Brazed

### Part Numbers

Cut 2	Cut 6	Cut 3
KD30202-2	KD30202-6	-
KD32.52.5-2	KD32.52.5-6	-
KD30303-2	KD30303-6	KD30303-3
KD30404-2	KD30404-6	KD30404-3
KD30505-2	KD30505-6	-
KD30606-2	KD30606-6	KD30606-3

**Oval** - Shape E, TRE, SE**Dimensions** - All in mm

d1	l1	d2	l2	Type
3.0	6.0	3.0	38.0	Solid
5.0	8.0	3.0	38.0	Solid
6.3	9.5	3.0	42.0	Brazed

**Part Numbers**

Cut 2	Cut 6	Cut 3
KE30306-2	KE30306-6	KE30306-3
KE30508-2	KE30508-6	-
KE30610-2	KE30610-6	KE30610-3

**Ball Nosed Tree** - Shape F, RBF, SF**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

**Pointed Tree** - Shape G, SPG, SG**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

**Flame** - Shape H, SH**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	-

**60° Countersink** - Shape J, KSJ, SJ**Dimensions** - All in mm

d1	l1	d2	l2	Type
3.0	2.5	3.0	38.0	Solid

**Part Numbers**

Cut 2	Cut 6	Cut 3
KJ30303-2	KJ30303-6	-

# Miniature Range



## 90° Countersink - Shape K, KSK, SK

### Dimensions - All in mm

d1	l1	d2	l2	Type
3.0	1.5	3.0	38.0	Solid

### Part Numbers

Cut 2	Cut 6	Cut 3
KK30303-2	KK30303-6	-



## Ball Nosed Cone - Shape L, KEL, SL

### Dimensions - All in mm

d1	l1	d2	l2	Type	Angle
3.0	10.0	3.0	38.0	Solid	10°
3.0	14.0	3.0	38.0	Solid	8°
5.0	12.7	3.0	38.0	Solid	14°
6.3	15.8	3.0	48.0	Brazed	22°

### Part Numbers

Cut 2	Cut 6	Cut 3
KL30310-2	KL30310-6	-
KL30312-2	KL30312-6	KL30312-3
KL30512-2	KL30512-6	-
KL30612-2	KL30612-6	KL30612-3



## Cone - Shape M, SKM, SM

### Dimensions - All in mm

d1	l1	d2	l2	Type	Angle
3.0	8.0	3.0	38.0	Solid	18°
3.0	11.0	3.0	38.0	Solid	14°
3.0	15.0	3.0	38.0	Solid	10°
6.3	12.7	3.0	49.0	Brazed	22°

### Part Numbers

Cut 2	Cut 6	Cut 3
KM30308-2	KM30308-6	-
KM30311-2	KM30311-6	KM30311-3
KM30315-2	KM30315-6	-
KM30612-2	KM30612-6	KM30612-3



## Inverted Cone Shape N, WKN, SN

### Dimensions - All in mm

d1	l1	d2	l2	Type	Angle
3.0	4.0	3.0	38.0	Solid	10°
6.3	6.4	3.0	39.0	Brazed	12°
3.0	4.0	3.0	38.0	Solid	10°
6.3	6.4	3.0	39.0	Brazed	12°

### Part Numbers

Cut 2	Cut 6	Cut 3
KN30304-2	KN30304-6	-
KN30606-2	KN30606-6	-
KN30304-2E*	KN30304-6E*	-
KN30606-2E*	KN30606-6E*	-

\* Inverted cone with endcut



## Rim

### Dimensions - All in mm

d1	l1	d2	l2	Type
10.0	1.6	3.0	34.0	Brazed

### Part Numbers

Cut 2	Cut 6	Cut 3
KA3101.6-2	-	-

# Micro Range -

High tolerance geometry for precision applications



## Cylinder without Endcut Shape A

### Dimensions - All in mm

d1	l1	d2	l2	Type
1.0	4.0	3.0	38.0	
1.5	4.0	3.0	38.0	
2.0	4.0	3.0	38.0	

### Part Numbers

Cut 2 MICRO
KA30104-2 MICRO
KA31.504-2 MICRO
KA30204-2 MICRO

## Ball Nosed Cylinder Shape C

### Dimensions - All in mm

d1	l1	d2	l2	Type
1.0	4.0	3.0	38.0	
1.5	4.0	3.0	38.0	
2.0	4.0	3.0	38.0	

### Part Numbers

Cut 2 MICRO
KC30104-2 MICRO
KC31.504-2 MICRO
KC30204-2 MICRO

## Ball Shape D

### Dimensions - All in mm

d1	l1	d2	l2	Type
1.0	0.9	3.0	38.0	Solid
1.5	1.4	3.0	38.0	Solid
2.0	1.8	3.0	38.0	Solid

### Part Numbers

Cut 2 MICRO
KD30101-2 MICRO
KD31.51.5-2 MICRO
KD30202-2 MICRO

## Oval Shape E

### Dimensions - All in mm

d1	l1	d2	l2	Type
1.5	4.0	3.0	38.0	Solid

### Part Numbers

Cut 2 MICRO
KE31.504-2 MICRO

## Ball Nosed Tree Shape F

### Dimensions - All in mm

d1	l1	d2	l2	Type
1.5	4.0	3.0	38.0	Solid

### Part Numbers

Cut 2 MICRO
KF31.504-2 MICRO

## Pointed Tree Shape G

### Dimensions - All in mm

d1	l1	d2	l2	Type
1.5	4.0	3.0	38.0	Solid

### Part Numbers

Cut 2 MICRO
KG31.504-2 MICRO

## Cone Shape M

### Dimensions - All in mm

d1	l1	d2	l2	Type	Angle
1.5	4.0	3.0	38.0	Solid	16°

### Part Numbers

Cut 2 MICRO
KM31.504-2 MICRO

# Long Shank Range

## Cylinder without Endcut - Shape A, ZYA, SA

3mm  
shank

### Dimensions - All in mm

d1	l1	d2	l2	Type
3.0	14.0	3.0	50	Solid
3.0	14.0	3.0	75	Solid
3.0	14.0	3.0	100	Solid

### Part Numbers

Cut 2	Cut 6
KA30314-2-50	KA30314-6-50
KA30314-2-75	KA30314-6-75
KA30314-2-100	KA30314-6-100

6mm  
shank

d1	l1	d2	l2	Type
6.0	18.0	6.0	100	Solid
6.0	18.0	6.0	150	Solid
8.0	19.0	6.0	172	Brazed
9.6	19.0	6.0	172	Brazed
12.7	25.0	6.0	178	Brazed

Cut 2	Cut 6
KA60618-2-100	KA60618-6-100
KA60618-2-150	KA60618-6-150
KA60820-2-170	KA60820-6-170
KA61020-2-170	KA61020-6-170
KA61225-2-175	KA61225-6-175*

## Cylinder with Endcut - Shape B, ZYAS, SB

3mm  
shank

### Dimensions - All in mm

d1	l1	d2	l2	Type
3.0	14.0	3.0	50	Solid
3.0	14.0	3.0	75	Solid
3.0	14.0	3.0	100	Solid

### Part Numbers

Cut 2	Cut 6
KB30314-2-50	KB30314-6-50
KB30314-2-75	KB30314-6-75
KB30314-2-100	KB30314-6-100

6mm  
shank

d1	l1	d2	l2	Type
6.0	18.0	6.0	100	Solid
6.0	18.0	6.0	150	Solid
8.0	19.0	6.0	172	Brazed
9.6	19.0	6.0	172	Brazed
12.7	25.0	6.0	178	Brazed

Cut 2	Cut 6
KB60618-2-100	KB60618-6-100
KB60618-2-150	KB60618-6-150
KB60820-2-170	KB60820-6-170
KB61020-2-170	KB61020-6-170
KB61225-2-175	KB61225-6-175*

## Ball Nosed Cylinder - Shape C, WRC, SC

3mm  
shank

### Dimensions - All in mm

d1	l1	d2	l2	Type
3.0	14.0	3.0	50	Solid
3.0	14.0	3.0	75	Solid
3.0	14.0	3.0	100	Solid

### Part Numbers

Cut 2	Cut 6
KC30312-2-50	KC30312-6-50
KC30312-2-75	KC30312-6-75
KC30312-2-100	KC30312-6-100

6mm  
shank

d1	l1	d2	l2	Type
6.0	18.0	6.0	100	Solid
6.0	18.0	6.0	150	Solid
8.0	19.0	6.0	172	Brazed
9.6	19.0	6.0	172	Brazed
12.7	25.0	6.0	178	Brazed

Cut 2	Cut 6
KC60618-2-100	KC60618-6-100
KC60618-2-150	KC60618-6-150
KC60820-2-170	KC60820-6-170
KC61020-2-170	KC61020-6-170
KC61225-2-175	KC61225-6-175*



**Ball** - Shape D, KUD, SD3mm  
shank**Dimensions** - All in mm

d1	l1	d2	l2	Type	Cut 2	Cut 6
3.0	2.5	3.0	50	Solid	KD30303-2-50	KD30303-6-50
3.0	2.5	3.0	75	Solid	KD30303-2-75	KD30303-6-75

**Part Numbers**6mm  
shank

d1	l1	d2	l2	Type	Cut 2	Cut 6
8.0	6.0	6.0	182	Brazed	KD60808-2-180	KD60808-6-180
9.6	8.0	6.0	184	Brazed	KD61010-2-185	KD61010-6-185
12.7	11.0	6.0	164	Brazed	KD61212-2-162	KD61212-6-162*

**Oval** - Shape E, TRE, SE3mm  
shank**Dimensions** - All in mm

d1	l1	d2	l2	Type	Cut 2	Cut 6
3.0	6.0	3.0	50	Solid	KE30306-2-50	KE30306-6-50
3.0	6.0	3.0	75	Solid	KE30306-2-75	KE30306-6-75

**Part Numbers**6mm  
shank

d1	l1	d2	l2	Type	Cut 2	Cut 6
9.6	16.0	6.0	168	Brazed	KE61015-2-165	KE61015-6-165
12.7	22.0	6.0	175	Brazed	KE61220-2-170	KE61220-6-170*

**Ball Nosed Tree** - Shape F, RBF, SF3mm  
shank**Dimensions** - All in mm

d1	l1	d2	l2	Type	Cut 2	Cut 6
3.0	14.0	3.0	50	Solid	KF30312-2-50	KF30312-6-50
3.0	14.0	3.0	75	Solid	KF30312-2-75	KF30312-6-75

**Part Numbers**6mm  
shank

d1	l1	d2	l2	Type	Cut 2	Cut 6
6.0	18.0	6.0	150	Solid	KF60618-2-150	KF60618-6-150
9.6	19.0	6.0	172	Brazed	KF61020-2-170	KF61020-6-170
12.7	25.0	6.0	178	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	
3.0	14.0	3.0	50	Solid	KG30312-2-50	KG30312-6-50	
3.0	14.0	3.0	75	Solid	KG30312-2-75	KG30312-6-75	

6mm shank		Dimensions - All in mm				Part Numbers	
d1	l1	d2	l2	Type	Cut 2	Cut 6	
9.6	19.0	6.0	172	Brazed	KG61020-2-170	KG61020-6-170	
12.7	25.0	6.0	178	Brazed	KG61225-2-175	KG61225-5-175*	

## Flame - Shape H, SH

3mm shank		Dimensions - All in mm				Part Numbers	
d1	l1	d2	l2	Type	Cut 2	Cut 6	
3.0	14.0	3.0	50	Solid	KH30306-2-50	KH30306-6-50	
3.0	14.0	3.0	75	Solid	KH30306-2-75	KH30306-6-75	

6mm shank		Dimensions - All in mm				Part Numbers	
d1	l1	d2	l2	Type	Cut 2	Cut 6	
8.0	19.0	6.0	172	Brazed	KH60820-2-170	KH60820-6-170	
12.7	32.0	6.0	178	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
3.0	14.0	3.0	50	Solid	8°	KL30312-2-50	KL30312-6-50
3.0	14.0	3.0	75	Solid	8°	KL30312-2-75	KL30312-6-75

6mm shank		Dimensions - All in mm				Part Numbers	
d1	l1	d2	l2	Type	Angle	Cut 2	Cut 6
9.6	30.0	6.0	183	Brazed	14°	KL61026-2-176	KL61026-6-176
12.7	30.2	6.0	185	Brazed	14°	KL61228-2-182	KL61228-6-182*

\*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

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

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

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	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	KG60618-6 TIALN	-
	9.6	19.0	6.0	64.0	Brazed	KG61020-6 TIALN	-
	12.7	25.0	6.0	70.0	Brazed	KG61225-6 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

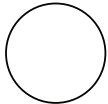
Cut 6	Cut 3
KL61228-6 TIALN	KL61228-3 TIALN

# Diamond Cut Router Range -

for fibre glass and composite materials (GFK, CFK)



**Without  
Endcut**



**Dimensions** - All in mm

d1	l1	d2	l2	Type	Part Numbers
3.0	13.0	3.0	45.0	Solid	Cut 8 KP30313-8
4.0	16.0	4.0	50.0	Solid	KP40416-8
6.0	19.0	6.0	63.0	Solid	KP60619-8
8.0	25.0	8.0	63.0	Solid	KP80825-8
10.0	25.0	10.0	63.0	Solid	KP101025-8
12.0	30.0	12.0	75.0	Solid	KP121230-8

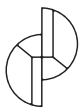
**With  
Endcut**



**Dimensions** - All in mm

d1	l1	d2	l2	Type	Part Numbers
3.0	13.0	3.0	45.0	Solid	Cut 8 KP30313-8E
4.0	16.0	4.0	50.0	Solid	KP40416-8E
6.0	19.0	6.0	63.0	Solid	KP60619-8E
8.0	25.0	8.0	63.0	Solid	KP80825-8E
10.0	25.0	10.0	63.0	Solid	KP101025-8E
12.0	30.0	12.0	75.0	Solid	KP121230-8E

**Two Flute  
Endmill  
Endcut**



**Dimensions** - All in mm

d1	l1	d2	l2	Type	Part Numbers
3.0	13.0	3.0	45.0	Solid	Cut 8 KP30313-8ME
4.0	16.0	4.0	50.0	Solid	KP40416-8ME
6.0	19.0	6.0	63.0	Solid	KP60619-8ME
8.0	25.0	8.0	63.0	Solid	KP80825-8ME
10.0	25.0	10.0	63.0	Solid	KP101025-8ME
12.0	30.0	12.0	75.0	Solid	KP121230-8ME

**135°  
Drill Point**



**Dimensions** - All in mm

d1	l1	d2	l2	Type	Part Numbers
3.0	13.0	3.0	45.0	Solid	Cut 8 KP30313-8DP
4.0	16.0	4.0	50.0	Solid	KP40416-8DP
6.0	19.0	6.3	63.0	Solid	KP60619-8DP
8.0	25.0	8.0	63.0	Solid	KP80825-8DP
10.0	25.0	10.0	63.0	Solid	KP101025-8DP
12.0	30.0	12.0	75.0	Solid	KP121230-8DP



## Extra Cut Range -

for heavy duty applications (Foundries / Shipyards)

### Cylinder without Endcut - Shape A, ZYA, SA

6mm  
shank

#### Dimensions - All in mm

d1	l1	d2	l2	Type	Part Numbers
9.6	19.0	6.0	64.0	Brazed	Cut 5 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

d1	l1	d2	l2	Type	Part Numbers
12.7	25.0	8.0	70.0	Brazed	Cut 5 KA81225-5

### Cylinder with Endcut- Shape B, ZYAS, SB

6mm  
shank

#### Dimensions - All in mm

d1	l1	d2	l2	Type	Part Numbers
9.6	19.0	6.0	64.0	Brazed	Cut 5 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

d1	l1	d2	l2	Type	Part Numbers
12.7	25.0	8.0	70.0	Brazed	Cut 5 KB81225-5

### Ball Nosed Cylinder - Shape C, WRC, SC

6mm  
shank

#### Dimensions - All in mm

d1	l1	d2	l2	Type	Part Numbers
8.0	19.0	6.0	64.0	Brazed	Cut 5 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

d1	l1	d2	l2	Type	Part Numbers
12.7	25.0	8.0	70.0	Brazed	Cut 5 KC81225-5

## Extra Cut Range

### Ball - Shape D, KUD, SD

6mm  
shank

#### Dimensions - All in mm

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

### Oval - Shape E, TRE, SE

6mm  
shank

#### Dimensions - All in mm

d1	l1	d2	l2	Type	Part Numbers
9.6	16.0	6.0	60.0	Brazed	Cut 5 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

d1	l1	d2	l2	Type	Part Numbers
9.6	19.0	6.0	64.0	Brazed	Cut 5 KF61020-5
12.7	25	6.0	70.0	Brazed	KF61225-5
16.0	25	6.0	70.0	Brazed	KF61525-5

8mm  
shank

d1	l1	d2	l2	Type	Part Numbers
12.7	25	8.0	70.0	Brazed	Cut 5 KF81225-5
16.0	25	8.0	70.0	Brazed	KF81525-5





## Extra Cut 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

# Burr Sets

## Burr Set 8pc (6mm Shank/Cut 6)

**Part Number: KBS2**

- KA61225-6
- KC61020-6
- KC61225-6
- KD61212-6
- KE61015-6
- KF61020-6
- KF61225-6
- KG61020-6



## Burr Set 5pc (6mm Shank/Cut 6)

**Part Number: KBS6**

- KB61020-6
- KC61225-6
- KF61225-6
- KG61020-6
- KL61228-6



## Coated Burr Set 5pc (6mm Shank/Cut 6)

**Part Number: KBSCB6**

- KB61020-6 TIALN
- KC61225-6 TIALN
- KF61225-6 TIALN
- KG61020-6 TIALN
- KL61228-6 TIALN



## Power Cut Burr Set 5pc (6mm Shank/Cut 5)

**Part Number: KBSPC5**

- KB61225-5
- KC61225-5
- KF61225-5
- KG61225-5
- KL61228-5



## Burr Set 10pc (3mm Shank/Cut 6)

**Part Number: KBS1A**

- KA30314-6
- KC30312-6
- KD30303-6
- KE30306-6
- KF30312-6
- KG30312-6
- KH30306-6
- KL30312-6
- KM30311-6
- KN30304-6



## Micro Burr Set 10pc (3mm Shank/Cut 2 MICRO)

**Part Number: KBSMICRO**

- KA30104-2 MICRO
- KA31.504-2 MICRO
- KC30104-2 MICRO
- KC31.504-2 MICRO
- KD30101-2 MICRO
- KD31.51.5-2 MICRO
- KE31.504-2 MICRO
- KF31.504-2 MICRO
- KG31.504-2 MICRO
- KM31.504-2 MICRO



## 40pc Burr Display

**Part Number: KBS40**

- |                  |                  |
|------------------|------------------|
| <u>KB60618-6</u> | <u>KF61020-6</u> |
| <u>KB60820-6</u> | <u>KF61225-6</u> |
| <u>KB61020-6</u> | <u>KG60618-6</u> |
| <u>KB61225-6</u> | <u>KG60820-6</u> |
| <u>KC60618-6</u> | <u>KG61020-6</u> |
| <u>KC60820-6</u> | <u>KG61225-6</u> |
| <u>KC61020-6</u> | <u>KL60618-6</u> |
| <u>KC61225-6</u> | <u>KL60822-6</u> |
| <u>KF60618-6</u> | <u>KL61026-6</u> |
| <u>KF60820-6</u> | <u>KL61228-6</u> |



- 2 pieces of each part included
- Secure lockable design
- Dimensions: (w)165mm x (h)310mm x (l)245mm

# Recommendations For Use

## Specials Service:

Here at Morrisflex we are happy to work with you to solve any application problems. We can vary head, cut and shank configurations to suit a variety of materials, work piece shapes and any access problems. Please contact us to discuss your requirements.

## Double Ended Products:

A selection of our burrs are available with double ends please contact us for further information.

## Consumable and Tool Mix:

Ata Group manufactures both tools and consumable, offering you the customer expertise in matching the right products for use in your work place. Using an ATA Tools and a Morrisflex burr can help to reduce FOTT, lower vibration exposure levels and reduce production labour costs.

View our tool range at - [www.atatools.ie](http://www.atatools.ie)

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- Always operate the burr 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 burr in the collet. Do not exceed the recommended maximum over hang. For guidance see page 5.
- Long shank burrs require slower running speeds.
- Always use a smooth cutting action with constant movement in both directions.
- **Don't Run burr above the maximum operating speed, this can cause premature tooth wear.**
- **Don't Run a burr too slowly, this can cause chipping.**
- **Don't Sink the burr to more than one third of its periphery. Do not encapsulate.**
- **Don't Allow burr to become too hot, this may cause the braze to soften and cause the head to become detached from the shank (only applies to burrs where head diameter is greater than the shank diameter).**

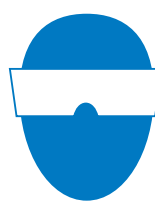
## Always Remember to Wear



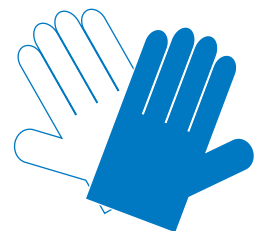
Ear Protection



Face Mask



Safety Glasses



Protective Gloves

# morrisflex

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