



**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	A31.506-2	A31.506-6	-
2.0	11.0	3.0	38.0	Solid	A30211-2	A30211-6	-
2.5	12.0	3.0	38.0	Solid	A32.512-2	A32.512-6	-
3.0	14.0	3.0	38.0	Solid	A30314-2	A30314-6	A30314-3
5.0	12.7	3.0	38.0	Solid	A30512-2	A30512-6	-
6.3	4.7	3.0	37.0	Brazed	A30605-2	A30605-6	-
6.3	12.7	3.0	45.0	Brazed	A30612-2	A30612-6	A30612-3

**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	B31.506-2	B31.506-6	-
2.0	11.0	3.0	38.0	Solid	B30211-2	B30211-6	-
2.5	12.0	3.0	38.0	Solid	B32.512-2	B32.512-6	-
3.0	14.0	3.0	38.0	Solid	B30314-2	B30314-6	B30314-3
5.0	12.7	3.0	38.0	Solid	B30512-2	B30512-6	-
6.3	4.7	3.0	37.0	Brazed	B30605-2	B30605-6	-
6.3	12.7	3.0	45.0	Brazed	B30612-2	B30612-6	B30612-3

**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	C30211-2	C30211-6	-
2.5	11.0	3.0	38.0	Solid	C32.511-2	C32.511-6	-
3.0	14.0	3.0	38.0	Solid	C30312-2	C30312-6	C30312-3
5.0	12.7	3.0	38.0	Solid	C30512-2	C30512-6	-
6.3	12.7	3.0	45.0	Brazed	C30612-2	C30612-6	C30612-3

**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	D30202-2	D30202-6	-
2.5	2.3	3.0	38.0	Solid	D32.52.5-2	D32.52.5-6	-
3.0	2.5	3.0	38.0	Solid	D30303-2	D30303-6	D30303-3
4.0	3.4	3.0	38.0	Solid	D30404-2	D30404-6	D30404-3
5.0	4.7	3.0	38.0	Solid	D30505-2	D30505-6	-
6.3	5.0	3.0	38.0	Brazed	D30606-2	D30606-6	D30606-3

**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	K30303-2	K30303-6	-

**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°	L30310-2	L30310-6	-
3.0	14.0	3.0	38.0	Solid	8°	L30312-2	L30312-6	L30312-3
5.0	12.7	3.0	38.0	Solid	14°	L30512-2	L30512-6	-
6.3	15.8	3.0	48.0	Brazed	22°	L30612-2	L30612-6	L30612-3

**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°	M30308-2	M30308-6	-
3.0	11.0	3.0	38.0	Solid	14°	M30311-2	M30311-6	M30311-3
3.0	15.0	3.0	38.0	Solid	10°	M30315-2	M30315-6	-
6.3	12.7	3.0	49.0	Brazed	22°	M30612-2	M30612-6	M30612-3

**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°	N30304-2	N30304-6	-
6.3	6.4	3.0	39.0	Brazed	12°	N30606-2	N30606-6	-
3.0	4.0	3.0	38.0	Solid	10°	N30304-2E*	N30304-6E*	-
6.3	6.4	3.0	39.0	Brazed	12°	N30606-2E*	N30606-6E*	-

**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	A3101.6-2	-	-

**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	E30306-2	E30306-6	E30306-3
5.0	8.0	3.0	38.0	Solid	E30506-2	E30506-6	-
6.3	9.5	3.0	42.0	Brazed	E30610-2	E30610-6	E30610-3

**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	F30306-2	F30306-6	-
3.0	8.0	3.0	38.0	Solid	F30308-2	F30308-6	-
3.0	14.0	3.0	38.0	Solid	F30312-2	F30312-6	F30312-3
5.0	12.7	3.0	38.0	Solid	F30512-2	F30512-6	-
6.3	12.7	3.0	45.0	Brazed	F30612-2	F30612-6	F30612-3

**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	G30306-2	G30306-6	-
3.0	10.0	3.0	38.0	Solid	G30310-2	G30310-6	-
3.0	14.0	3.0	38.0	Solid	G30312-2	G30312-6	G30312-3
5.0	12.7	3.0	38.0	Solid	G30512-2	G30512-6	-
6.3	12.7	3.0	45.0	Brazed	G30612-2	G30612-6	G30612-3

**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	H30306-2	H30306-6	-
5.0	9.5	3.0	38.0	Solid	H30510-2	H30510-6	-
6.0	10.0	3.0	43.0	Brazed	H30612-2	H30612-6	-

**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	J30303-2	J30303-6	-

**Micro Range**

High tolerance geometry for precision applications

Dimensions - All in mm						Part Numbers	
d1	l1	d2	l2	Type	Cut 2 MICRO		
1.0	4.0	3.0	38.0	Solid	A30104-2 MICRO		
1.5	4.0	3.0	38.0	Solid	A31.504-2 MICRO		
2.0	4.0	3.0	38.0	Solid	A30204-2 MICRO		

Dimensions - All in mm						Part Numbers	
d1	l1	d2	l2	Type	Cut 2 MICRO		
1.0	4.0	3.0	38.0	Solid	C30104-2 MICRO		
1.5	4.0	3.0	38.0	Solid	C31.504-2 MICRO		
2.0	4.0	3.0	38.0	Solid	C30204-2 MICRO		

Dimensions - All in mm						Part Numbers	
d1	l1	d2	l2	Type	Cut 2 MICRO		
1.0	0.9	3.0	38.0	Solid	D30101-2 MICRO		
1.5	1.4	3.0	38.0	Solid	D31.51.5-2 MICRO		
2.0	1.8	3.0	38.0	Solid	D30202-2 MICRO		

Dimensions - All in mm						Part Numbers	
d1	l1	d2	l2	Type	Cut 2 MICRO		
1.5	4.0	3.0	38.0	Solid	E31.504-2 MICRO		

Dimensions - All in mm						Part Numbers	
d1	l1	d2	l2	Type	Cut 2 MICRO		
1.5	4.0	3.0	38.0	Solid	F31.504-2 MICRO		

Dimensions - All in mm						Part Numbers	
d1	l1	d2	l2	Type	Cut 2 MICRO		
1.5	4.0	3.0	38.0	Solid	G31.504-2 MICRO		

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		