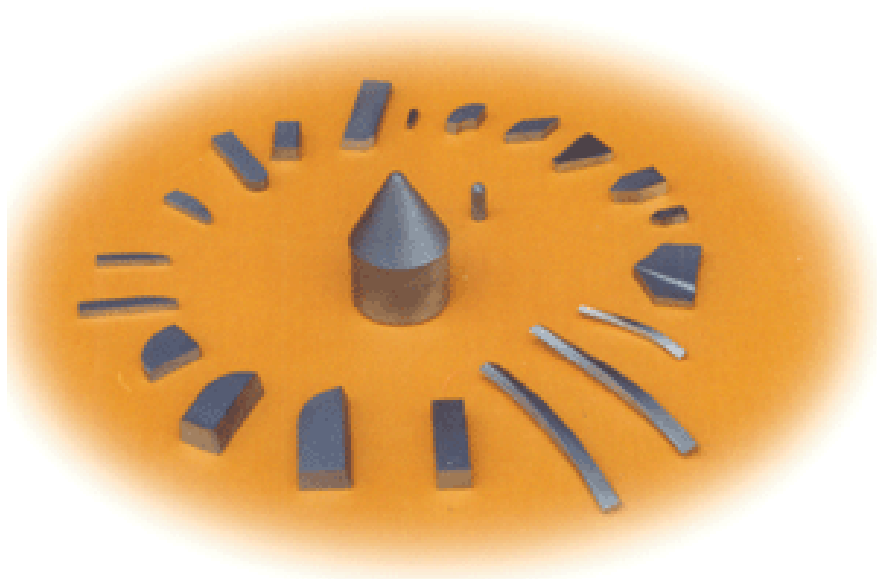
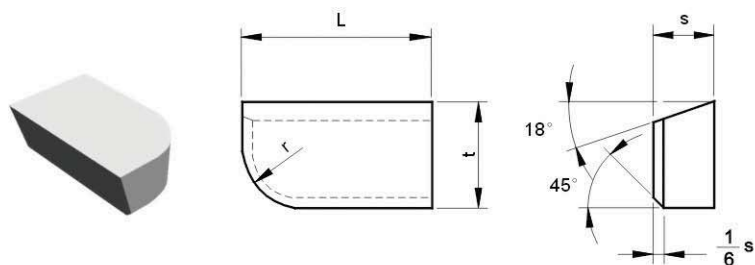


## **Brazed Tips**

**A kind of hot process composite material for surface refurbishing and making, capable to provide comprehensive coatings to enhance the wear resistance, thermal resistance, corrosion resistance and impact resistance of prot surface and special coatings of sealing, insulation and super-conduction.**

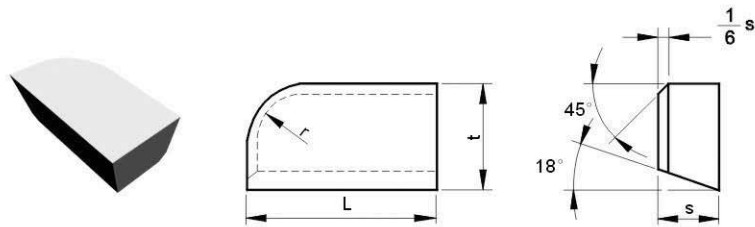


Type A



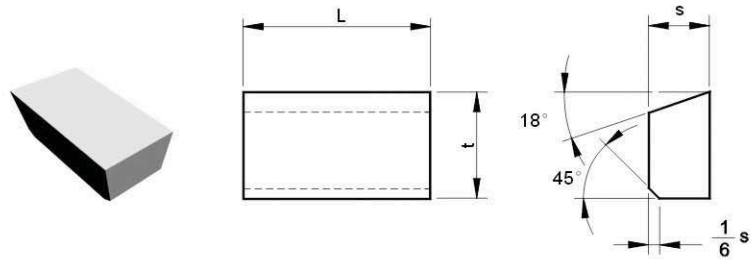
Type	Dimension(mm)				Approx unit weight(g)			
	L	t	s	r	YG6	YG8	YT5	YT14
A5	5.0	3.0	2.0	2.0	0.5	0.4	0.4	0.4
A6	6.0	4.0	2.5	2.5	0.9	0.8	0.8	0.7
A8	8.0	5.0	3.0	3.0	1.7	1.6	1.5	1.3
A10	10.0	6.0	4.0	4.0	3.1	3.1	2.7	2.4
A12	12.0	8.0	5.0	5.0	6.1	6.1	5.5	4.8
A16	16.0	10.0	6.0	6.0	12.7	12.7	11.2	9.8
A20	20.0	12.0	7.0	7.0	22.4	22.4	19.6	17.2
A25	25.0	14.0	8.0	8.0	38.4	38.4	32.2	28.4
A32	32.0	18.0	10.0	10.0	79.5	79.0	68.4	52.5
A40	40.0	22.0	12.0	12.0	144.0	140.0	124.2	109.4
A50	50.0	25.0	14.0	14.0	235.0	235.0	193.3	170.2

Type B



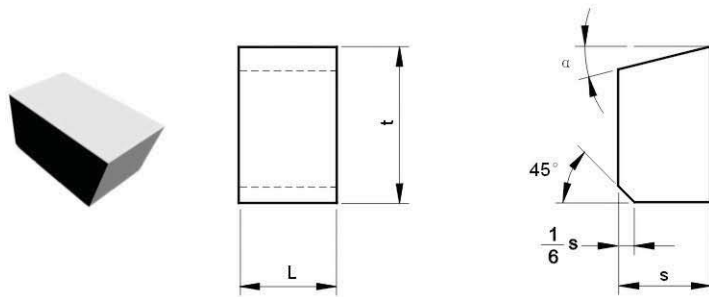
Type	Dimension(mm)				Approx unit weight(g)			
	L	t	s	r	YG6	YG8	YT5	YT14
B5	5.0	3.0	2.0	2.0	0.5	0.4	0.4	0.3
B6	6.0	4.0	2.5	2.5	0.8	0.8	0.6	0.6
B8	8.0	5.0	3.0	3.0	1.7	1.6	1.5	1.3
B10	10.0	6.0	4.0	4.0	3.2	3.1	2.7	2.4
B12	12.0	8.0	5.0	5.0	6.1	6.1	5.5	4.8
B16	16.0	10.0	6.0	6.0	12.7	12.7	11.1	9.8
B20	20.0	12.0	7.0	7.0	22.4	22.4	19.6	17.2
B25	25.0	14.0	8.0	8.0	38.4	38.4	32.2	28.4
B32	32.0	18.0	10.0	10.0	79.5	79.0	68.4	61.0
B40	40.0	22.0	12.0	12.0	144.0	139.0	120.0	107.0
B50	50.0	25.0	14.0	14.0	235.0	234.0	202.0	180.0

Type C



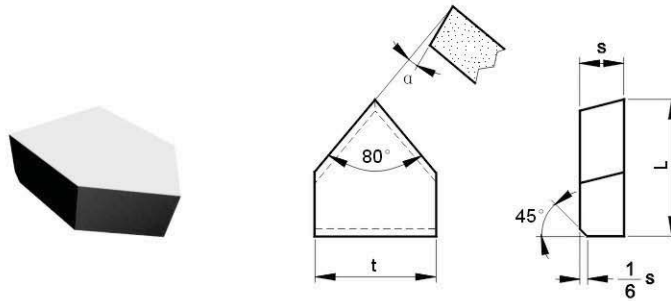
Type	Dimension(mm)			Approx unit weight(g)			
	L	t	s	YG6	YG8	YT5	YT14
C5	5.0	3.0	2.0	0.4	0.4	0.3	0.3
C6	6.0	4.0	2.5	0.8	0.8	0.7	0.6
C8	8.0	5.0	3.0	1.9	1.9	0.6	1.5
C10	10.0	6.0	4.0	3.2	3.2	2.8	2.5
C12	12.0	8.0	5.0	6.7	6.7	5.9	5.2
C16	16.0	10.0	6.0	13.8	13.6	11.6	10.2
C20	20.0	12.0	7.0	24.0	24.0	20.7	18.2
C25	25.0	14.0	8.0	40.0	40.6	34.7	30.6
C32	32.0	18.0	10.0	83.0	82.5	71.4	63.5
C40	40.0	22.0	12.0	151.0	150.6	129.8	115.7
C50	50.0	25.0	14.0	248.0	247.0	213.2	190.0

Type D



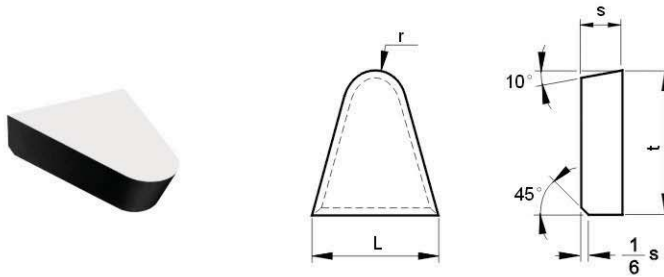
Type	Dimension(mm)				Approx unit weight(g)			
	L	t	s	α	YG6	YG8	YT5	YT14
D3	3.5	8.0	3.0	/	1.3	1.3	1.2	1.0
D4	4.5	10.0	4.0	14°	2.8	2.8	2.1	1.8
D5	5.5	12.0	5.0	14°	5.0	5.1	3.9	3.4
D6	6.5	14.0	6.0	14°	8.0	8.0	6.4	5.6
D8	8.6	16.0	8.0	14°	16.2	16.2	13.3	11.7
D10	10.5	18.0	10.0	14°	28.0	28.0	23.0	20.3
D12	12.5	20.0	12.0	14°	44.0	44.0	36.4	32.0

Type E



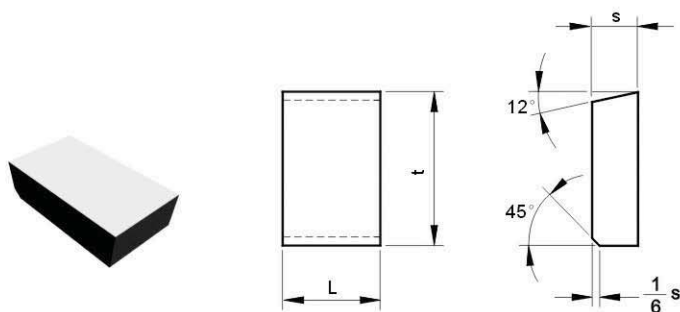
Type	Dimension(mm)				Approx unit weight(g)			
	L	t	s	$\alpha$	YG6	YG8	YT5	YT14
E4	10.0	4.0	2.5	/	1.4	1.4	1.2	1.1
E5	12.0	5.0	3.0	/	2.5	2.5	2.2	1.9
E6	14.0	6.0	3.5	/	4.1	4.1	3.6	3.1
E8	16.0	8.0	4.0	9°	6.8	6.8	5.9	5.2
E10	18.0	10.0	5.0	9°	11.6	11.5	10.1	8.9
E12	20.0	12.0	6.0	9°	17.8	17.7	15.5	13.7
E16	22.0	16.0	7.0	9°	29.4	29.4	25.3	22.3
E20	25.0	20.0	8.0	9°	46.5	45.2	39.5	34.8
E25	28.0	25.0	9.0	9°	68.5	68.0	67.3	59.3
E32	32.0	32.0	10.0	9°	107.0	107.0	92.0	82.0

Type G



Type	Dimension(mm)				Approx unit weight(g)			
	L	t	s	r	YG6	YG8	YT5	YT14
G8	8.0	12.0	4.0	1.0	3.1	3.1	2.7	2.4
G10	10.0	14.0	4.0	1.5	4.9	4.8	4.2	3.7
G12	12.0	17.0	5.0	2.5	9.4	9.4	8.2	7.2
G16	16.0	20.0	6.0	3.5	17.9	17.9	15.5	13.7
G20	20.0	24.0	6.0	4.5	28.1	28.0	24.4	21.5
G25	25.0	28.0	8.0	6.0	54.2	54.0	46.0	41.5
G30	30.0	34.0	10.0	8.0	99.3	99.0	85.3	76.1

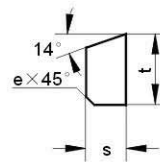
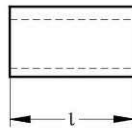
Type K



Type	Dimension(mm)			Approx unit weight(g)			
	L	t	s	YG6	YG8	YT5	YT14
K2	2.5	15.0	4.0	2.3	2.3	2.0	1.7
K3	3.5	15.0	4.0	3.1	3.1	2.7	2.3
K4	4.5	15.0	4.0	4.1	4.0	2.6	2.3
K5	5.5	15.0	4.0	4.9	4.8	4.2	3.7
K6	6.5	15.0	4.0	5.8	5.8	5.0	4.5
K7	7.5	15.0	4.0	6.6	6.5	5.1	4.6
K8	8.5	20.0	6.0	15.7	15.6	13.5	12.0
K9	9.5	20.0	6.0	17.5	17.4	15.0	13.4
K10	10.5	20.0	6.0	19.0	19.0	16.3	14.6
K12	12.5	20.0	6.0	21.0	20.0	18.0	16.0

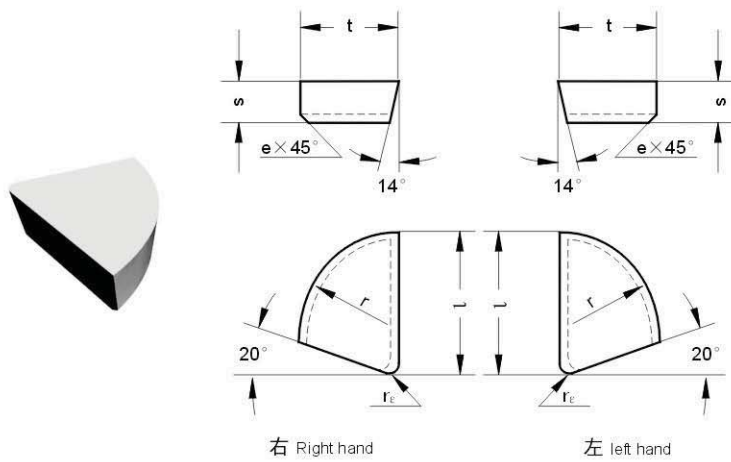


**Type A1** For making external turning tools, boring tools and grooving tools



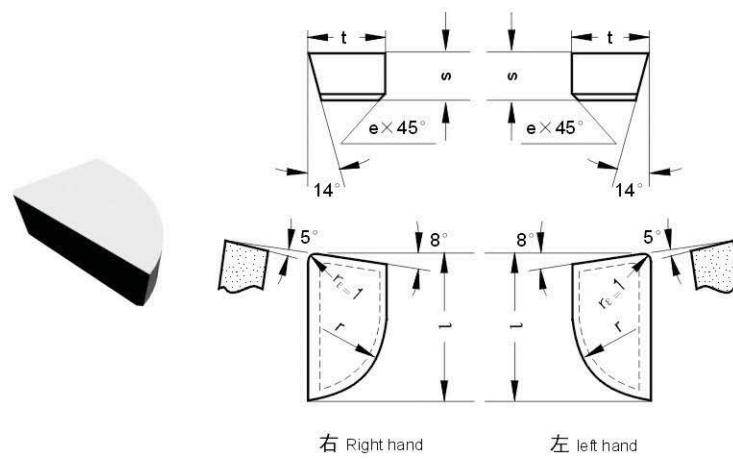
Type	Dimension(mm)				Approx unit weight(g)			
	l	t	s	e	YG6	YG8	YT5	YT14
A106	6.0	5.0	2.5	/	1.1	1.1	1.0	0.9
A108	8.0	7.0	3.0	/	2.6	2.5	2.1	1.9
A110	10.0	6.0	3.5	0.8	2.9	2.8	2.4	2.2
A112	12.0	10.0	4.0	0.8	6.8	6.6	5.7	5.2
A114	14.0	12.0	4.5	0.8	10.7	10.5	8.9	8.2
A116	16.0	10.0	5.5	0.8	12.3	12.0	10.5	9.8
A118	18.0	12.0	7.0	0.8	21.3	20.8	17.5	16.3
A118A	18.0	16.0	6.0	0.8	24.7	24.3	21.0	19.7
A120	20.0	12.0	7.0	0.8	23.2	22.8	20.0	18.6
A122	22.0	15.0	8.5	0.8	39.2	38.5	33.0	30.6
A122A	22.0	18.0	7.0	0.8	39.2	38.5	32.8	30.5
A125	25.0	15.0	8.5	0.8	44.5	43.7	36.5	34.0
A125A	25.0	20.0	10.0	0.8	71.0	69.8	58.0	53.8
A130	30.0	16.0	10.0	0.8	66.4	65.3	56.5	51.7
A136	36.0	20.0	10.0	0.8	98.2	96.8	81.0	75.2
A140	40.0	18.0	10.5	1.2	105.6	103.8	88.0	81.7
A150	50.0	20.0	10.5	1.2	149.0	146.0	125.0	116.0
A160	60.0	22.0	10.5	1.2	197.0	193.0	168.0	156.0
A170	70.0	25.0	12.0	1.2	298.0	293.0	257.0	239.0

**Type A2** For making boring tools and face turning tools



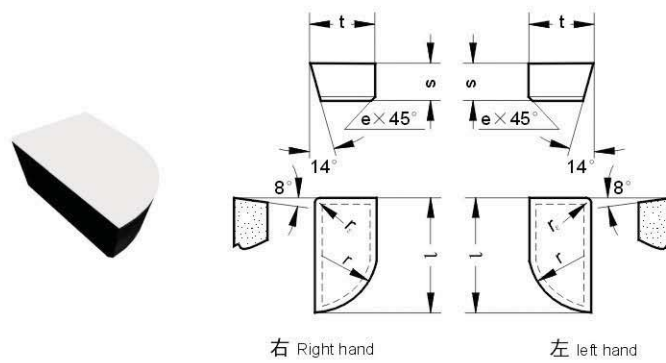
Type		Dimension(mm)						Approx unit weight(g)			
Right	left	l	t	s	r	r <sub>E</sub>	e	YG6	YG8	YT5	YT14
A208	/	8.0	7.0	2.5	7.0	0.5	/	1.4	1.4	1.3	1.3
A210	/	10.0	8.0	3.0	8.0	1.0	/	2.8	2.8	2.5	2.2
A212	A212Z	12.0	10.0	4.5	10.0	1.0	0.8	5.4	5.3	4.5	4.2
A216	A216Z	16.0	14.0	6.0	14.0	1.0	0.8	13.0	12.8	11.3	10.5
A220	A220Z	20.0	18.0	7.0	18.0	1.0	0.8	23.7	23.3	20.8	18.9
A225	A225Z	25.0	20.0	8.0	20.0	1.0	0.8	39.9	39.2	34.7	32.6

**Type A3** For making face turning tools and external turning tools



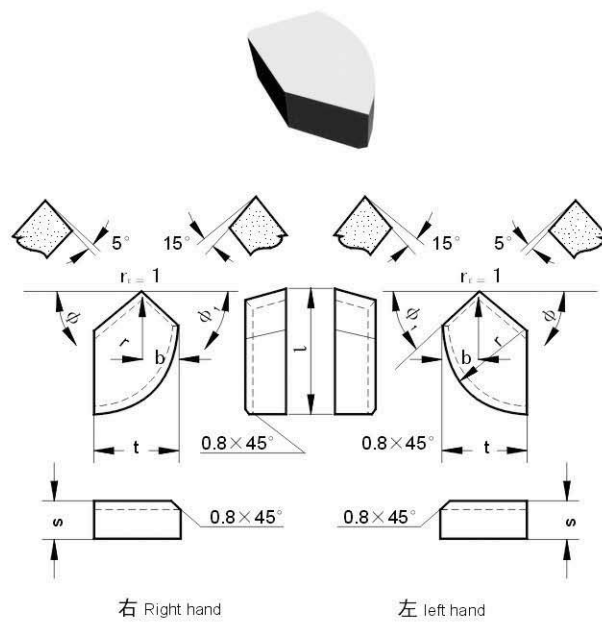
Type		Dimension(mm)					Approx unit weight(g)			
Right	left	l	t	s	r	e	YG6	YG8	YT5	YT14
A310	/	10.0	6.0	3.0	6.0	/	2.4	2.3	2.0	1.8
A312	A312Z	12.0	7.0	4.0	7.0	0.8	3.7	3.7	3.2	2.9
A315	A315Z	15.0	9.0	6.0	9.0	0.8	9.3	9.1	7.6	7.1
A320	A320Z	20.0	11.0	7.0	11.0	0.8	17.5	17.2	14.8	13.5
A325	A325Z	25.0	14.0	8.0	14.0	0.8	32.0	31.5	27.0	25.0
A330	A330Z	30.0	16.0	9.5	16.0	0.8	52.0	51.0	45.5	42.3
A340	A340Z	40.0	18.0	10.5	18.0	1.2	89.2	87.5	80.0	74.5

**Type A4** For making external turning tools, boring tools and face turning tools.



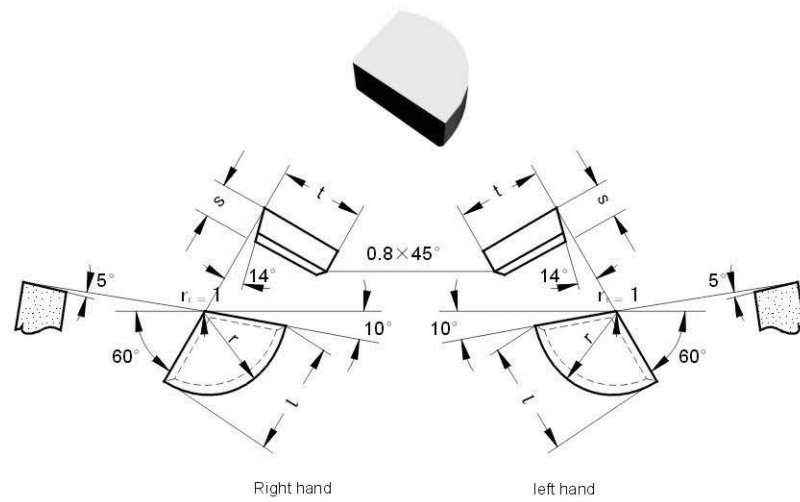
Type		Dimension(mm)						Approx unit weight(g)			
Right	left	l	t	s	r	r <sub>1</sub>	e	YG6	YG8	YT5	YT14
A406	/	6.0	5.0	2.5	5.0	0.5	/	1.0	0.9	0.8	0.7
A408	/	8.0	6.0	3.0	6.0	0.5	/	1.8	1.8	1.4	1.3
A410	A410Z	10.0	6.0	3.5	6.0	1.0	0.8	2.4	2.4	1.8	1.7
A412	A412Z	12.0	8.0	4.5	8.0	1.0	0.8	5.0	4.9	4.2	3.9
A416	A416Z	16.0	10.0	5.5	10.0	1.0	0.8	10.4	10.2	8.6	8.0
A420	A420Z	20.0	12.0	7.0	12.5	1.0	0.8	19.4	19.0	17.0	15.6
A425	A425Z	25.0	15.0	8.5	16.0	1.0	0.8	37.0	36.4	32.5	30.0
A430	A430Z	30.0	16.0	6.0	16.0	1.0	0.8	36.0	35.4	30.0	27.9
A430A	A430AZ	30.0	16.0	9.5	16.0	1.0	0.8	54.2	53.2	47.0	43.7
A440	A440Z	40.0	18.0	8.0	18.0	1.0	0.8	72.8	71.4	62.0	57.7
A440A	A440AZ	40.0	18.0	10.5	18.0	1.0	1.2	93.5	91.5	79.0	73.5
A450	A450Z	50.0	20.0	8.0	20.0	1.5	0.8	103.0	101.0	87.0	81.0
A450A	A450AZ	50.0	20.0	12.0	20.0	1.5	1.2	151.0	148.0	127.0	118.5

**Type A5** For making turning tools boring tools and face tuce turning tools.



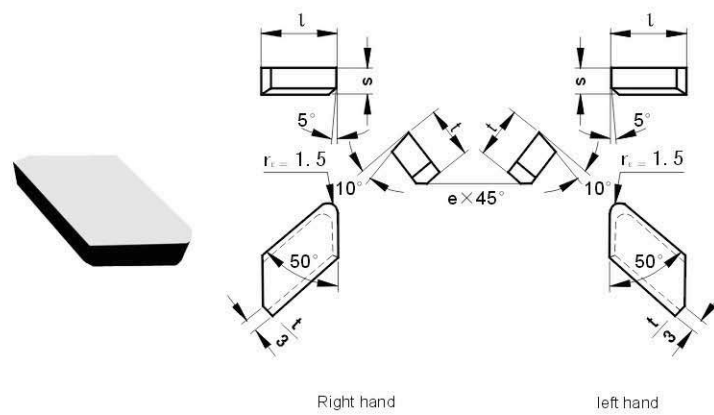
Type		Dimension(mm)							Approx unit weight(g)			
Right	left	l	t	s	b	r	$\phi$	$\phi_1$	YG6	YG8	YT5	YT14
A515	A515Z	15.0	10.0	4.5	5.0	10.0	45°	40°	7.2	7.0	5.9	5.3
A518	A518Z	18.0	12.0	5.5	4.0	12.0	45°	50°	11.4	11.3	9.8	8.7

**Type A6** For making boring tools, external turning tools and face milling tools



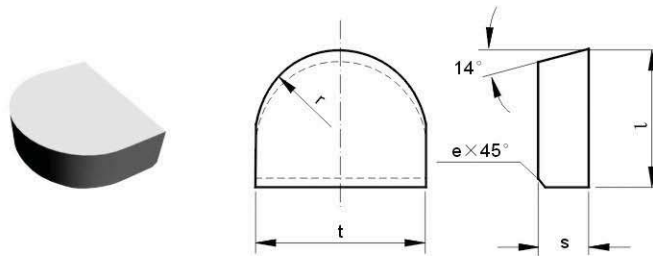
Type		Dimension(mm)				Approx unit weight(g)			
Right	left	l	t	s	r	YG6	YG8	YT5	YT14
A612	A612Z	12.0	8.0	3.0	8.0	3.2	3.1	2.8	2.5
A615	A615Z	15.0	10.0	4.0	10.0	6.1	6.0	5.3	4.7
A618	A618Z	18.0	12.0	4.5	12.0	10.0	9.8	8.6	7.7

**Type B1** For making forming tools, planing and milling tools with dovetail



Type		Dimension(mm)				Approx unit weight(g)			
Right	left	l	t	s	e	YG6	YG8	YT5	YT14
B108	/	8.0	6.0	3.0	/	3.5	3.0	2.8	2.5
B112	B112Z	12.0	8.0	4.0	1.0	5.4	5.3	4.7	4.2
B116	B116Z	16.0	10.0	5.0	1.0	12.2	12.0	11.4	9.3
B120	B120Z	20.0	14.0	5.0	1.0	25.8	25.5	22.1	19.6
B120A	B120AZ	20.0	16.0	7.0	1.5	30.9	30.4	26.6	23.6
B125	B125Z	25.0	14.0	5.0	1.5	32.0	31.5	28.2	25.0
B125A	B125AZ	25.0	18.0	8.0	1.5	52.5	51.8	45.1	40.0
B130	B130Z	30.0	20.0	8.0	1.5	76.2	75.0	65.5	58.2

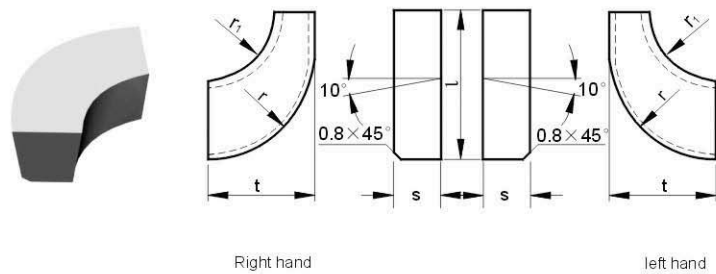
**Type B2** For making concave turning tools and wheel edge turning tools



Type	Dimension(mm)					Approx unit weight(g)			
	l	t	s	r	e	YG6	YG8	YT5	YT14
B208	8.0	8.0	3.0	4.0	/	2.6	2.6	2.1	2.0
B210	10.0	10.0	3.5	5.0	0.8	4.5	4.4	3.6	3.2
B212	12.0	12.0	4.5	6.0	0.8	8.3	8.1	7.1	6.5
B214	14.0	16.0	5.0	8.0	0.8	16.5	16.2	14.0	12.7
B216	16.0	20.0	6.0	10.0	0.8	26.8	26.3	23.5	21.8
B220	20.0	25.0	7.0	12.5	0.8	47.7	46.8	41.3	38.4
B225	25.0	30.0	8.0	15.0	0.8	86.5	85.0	74.1	69.0
B228	28.0	35.0	9.0	17.5	0.8	112.7	110.5	95.0	86.0

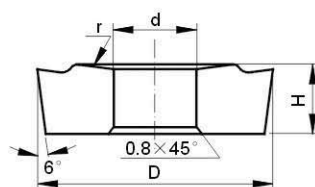


Type B3 For making convex turning tools



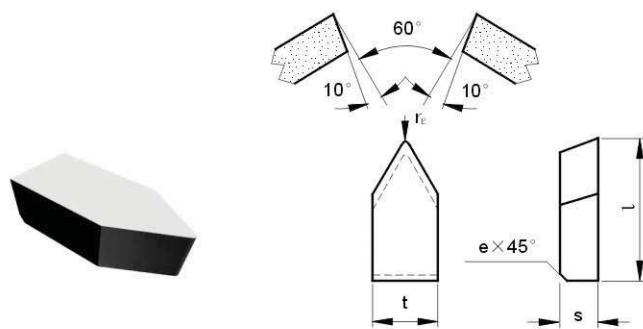
Type		Dimension(mm)					Approx unit weight(g)			
Right	left	l	t	s	r	r <sub>1</sub>	YG6	YG8	YT5	YT14
B312	B312Z	12.0	8.0	4.0	8.0	3.0	4.3	4.2	3.6	3.3
B315	B315Z	15.0	10.0	5.0	10.0	5.0	8.0	7.9	6.3	5.8
B318	B318Z	18.0	12.0	6.0	12.0	6.0	13.4	13.3	10.6	10.3
B322	B322Z	22.0	16.0	7.0	16.0	10.0	22.4	22.2	18.4	16.6

**Type B4** For making concave turning tools and wheel edge turning tools (Also for mechanically clamped inserts)



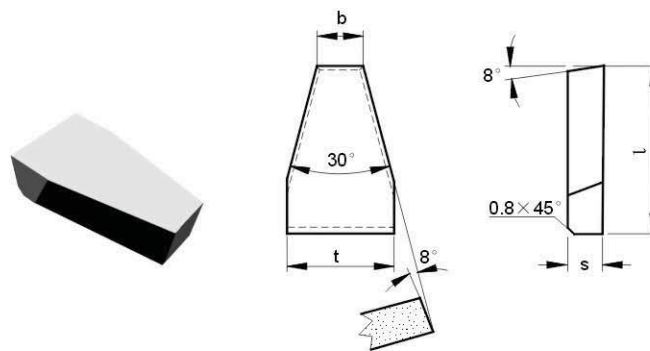
Type	Dimension(mm)				Approx unit weight(g)			
	D	d	H	r	YG6	YG8	YT5	YT14
B428	28.6	10.0	10.0	35.0	77.0	76.0	60.9	54.1
B433	33.0	12.0	10.0	35.0	106.0	104.0	82.3	73.0
B446	46.5	15.0	12.0	41.5	248.0	246.0	195.0	173.3

**Type C1** For making threading tools



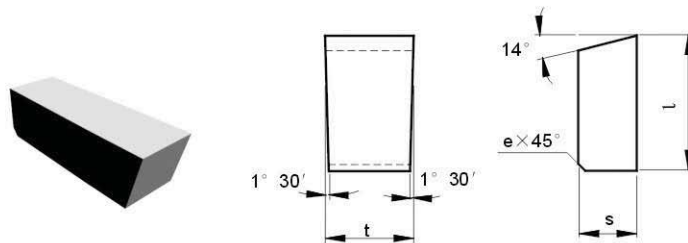
Type	Dimension(mm)					Approx unit weight(g)			
	$l$	$t$	$s$	$r_e$	$e$	YG6	YG8	YT5	YT14
C110	10.0	4.0	3.0	0.5	/	1.5	1.5	1.3	1.2
C116	16.0	6.0	4.0	0.5	0.8	4.8	4.7	4.0	3.7
C120	20.0	8.0	5.0	0.5	0.8	10.1	9.9	8.2	7.7
C122	22.0	10.0	6.0	0.5	0.8	15.6	15.3	13.7	12.1
C125	25.0	12.0	7.0	0.8	0.8	25.0	24.5	21.3	19.1

**Type C2** For making fine turning and trapezoid thread turning tools



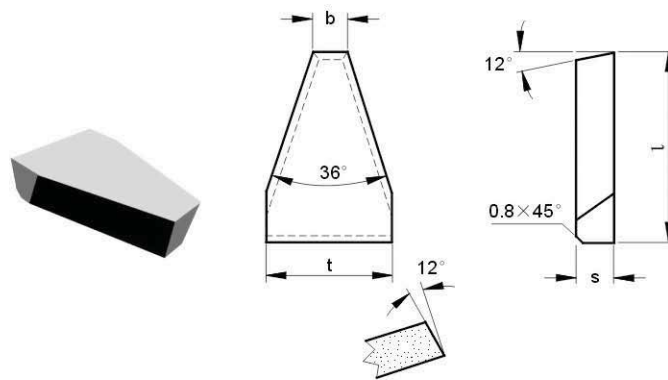
Type	Dimension(mm)				Approx unit weight(g)			
	l	t	b	s	YG6	YG8	YT5	YT14
C215	15.0	7.0	1.8	4.0	4.3	4.3	3.6	3.3
C218	18.0	10.0	3.1	5.0	9.3	9.1	7.9	7.3
C223	23.0	14.0	4.9	5.0	17.3	17.0	15.0	13.9
C228	28.0	18.0	7.7	6.0	34.4	33.8	29.5	27.4
C236	36.0	28.0	13.1	7.0	79.4	78.0	67.5	62.6

**Type C3** For making cut-off and grooving tools



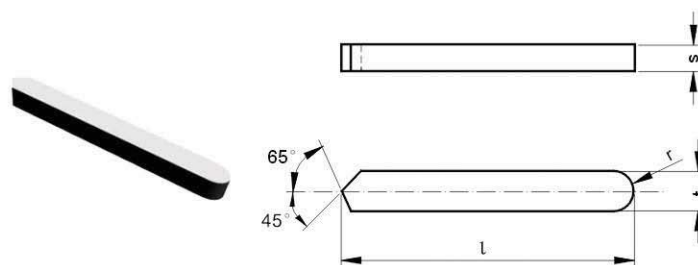
Type	Dimension(mm)				Approx unit weight(g)			
	l	t	s	e	YG6	YG8	YT5	YT14
C303	12.0	3.5	3.0	/	1.8	1.7	1.5	1.4
C304	14.0	4.5	4.0	0.8	3.4	3.3	2.9	2.7
C305	17.0	5.5	5.0	0.8	6.4	6.2	5.4	5.0
C306	17.0	6.5	6.0	0.8	9.1	8.8	7.6	7.0
C308	20.0	8.5	7.0	0.8	15.9	15.6	13.7	12.3
C310	22.0	10.5	8.0	0.8	24.4	24.0	21.7	20.0
C312	22.0	12.5	10.0	0.8	36.7	36.0	32.0	29.8
C316	25.0	16.5	11.0	1.2	61.2	60.2	54.0	49.5

**Type C4** For making v-belt wheel grooving tools



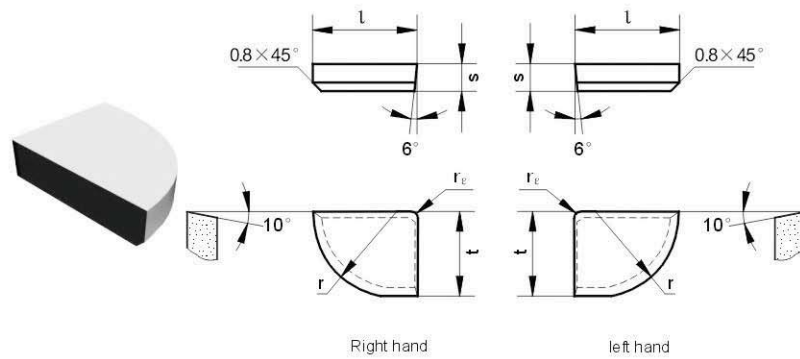
Type	Dimension(mm)				Approx unit weight(g)			
	l	t	b	s	YG6	YG8	YT5	YT14
C420	20.0	12.0	3.0	5.0	13.2	13.0	11.7	10.9
C425	25.0	16.0	4.0	5.0	21.1	20.7	17.8	16.5
C430	30.0	20.0	5.5	6.0	38.7	38.0	33.0	30.7
C435	35.0	25.0	7.5	6.0	55.3	54.3	48.0	44.7
C442	42.0	35.0	12.5	8.0	128.0	127.0	110.1	99.0
C450	50.0	42.0	15.0	8.0	185.0	182.0	159.1	143.1

**Type C5** For making roll broach used in flour-making industry



Type	Dimension(mm)				Approx unit weight(g)			
	l	t	s	r	YG6	YG8	YT5	YT14
C539	39.0	4.0	4.0	2.0	9.0	8.7	8.4	7.1
C545	45.0	6.0	4.0	3.0	16.0	15.7	13.7	12.1

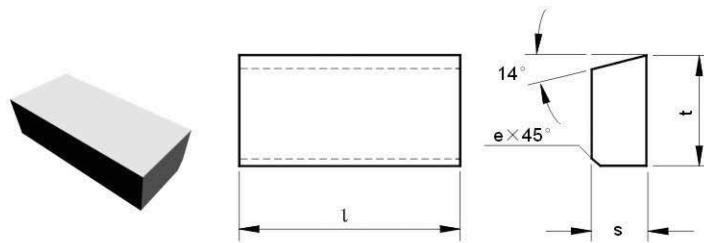
**Type D1** For making face mills



Type		Dimension(mm)					Approx unit weight(g)			
Right	left	l	t	s	r	r <sub>e</sub>	YG6	YG8	YT5	YT14
D110	/	10.0	8.0	2.5	8.0	0.5	3.2	3.1	2.6	2.4
D112	/	12.0	10.0	3.0	10.0	0.5	4.8	4.7	3.9	3.6
D115	D115Z	15.0	12.0	3.5	12.5	0.5	8.4	8.2	6.7	6.2
D120	D120Z	20.0	16.0	4.0	16.0	1.0	16.8	16.5	14.2	13.2
D125	D125Z	25.0	20.0	5.0	20.0	1.0	29.1	28.5	25.2	22.5
D130	D130Z	30.0	20.0	6.0	20.0	1.0	43.2	42.5	36.8	34.2



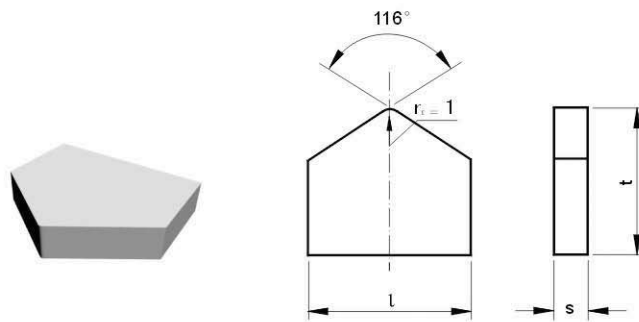
**Type D2** For making three-edged mills, T-grooving mills and floating boring tools



Type	Dimension(mm)				Approx unit weight(g)			
	l	t	s	e	YG6	YG8	YT5	YT14
D206	6.0	7.0	3.0	/	1.7	1.6	1.5	1.4
D208	8.0	4.0	3.0	/	1.5	1.4	1.2	1.1
D210	10.0	5.0	3.0	/	2.3	2.2	1.8	1.7
D210A	10.0	10.0	3.0	/	4.5	4.4	3.9	3.6
D212	12.0	6.0	3.0	/	3.3	3.2	2.6	2.4
D212A	12.0	12.0	3.5	0.8	7.2	7.1	6.1	5.6

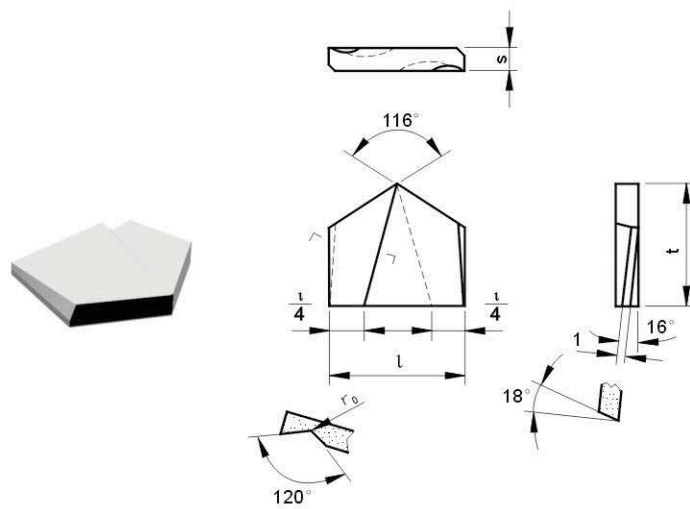
Type	Dimension(mm)				Approx unit weight(g)			
	l	t	s	e	YG6	YG8	YT5	YT14
D214	14.0	7.0	3.5	0.8	4.8	4.7	4.0	3.7
D214A	14.0	12.0	3.5	0.8	8.4	8.3	7.2	6.7
D216	16.0	7.0	3.5	0.8	5.3	5.2	4.6	4.4
D216A	16.0	12.0	3.5	0.8	9.6	9.4	8.2	7.6
D218	18.0	5.0	3.0	/	4.2	4.1	3.5	3.1
D218A	18.0	7.0	3.5	0.8	6.2	6.0	5.2	4.8
D218B	18.0	12.0	3.5	0.8	10.7	10.5	9.5	8.8
D220	20.0	10.0	4.0	0.8	11.3	11.1	9.8	9.1
D222	22.0	6.0	3.0	/	5.9	5.8	5.2	4.6
D222A	22.0	14.0	4.0	0.8	17.6	17.3	15.3	14.4
D224	24.0	14.0	4.0	0.8	18.9	18.7	16.2	15.0
D226	26.0	10.0	5.0	0.8	18.1	17.8	15.5	14.0
D226A	26.0	14.0	5.0	0.8	25.4	25.0	22.5	20.9
D228	28.0	10.0	4.0	0.8	15.7	15.4	13.7	12.1
D228A	28.0	14.0	4.0	0.8	22.5	22.3	20.2	17.5
D230	30.0	14.0	5.0	0.8	30.2	29.6	26.0	24.2
D232	32.0	12.0	5.0	0.8	27.3	27.0	23.7	21.0
D232A	32.0	14.0	4.0	0.8	25.3	25.0	22.5	20.9
D236	36.0	14.0	4.0	0.8	34.0	33.4	29.3	26.0
D238	38.0	12.0	5.0	0.8	32.9	32.5	28.2	25.0
D240	40.0	14.0	5.0	0.8	39.3	39.1	35.7	32.0
D246	46.0	14.0	5.0	0.8	48.5	47.5	41.7	37.0

**Type E1** For making twist drills and straight groove drills



Type	Dimension(mm)			Approx unit weight(g)			
	$l$	$t$	$s$	YG6	YG8	YT5	YT14
E105	5.0	5.0	1.5	0.5	0.5	0.5	0.5
E106	6.0	6.0	1.5	0.7	0.7	0.6	0.6
E107	7.0	6.0	1.5	0.8	0.8	0.8	0.7
E108	8.0	7.0	1.8	1.3	1.3	1.1	1.0
E109	9.0	8.0	2.0	1.7	1.7	1.5	1.4
E110	10.0	9.0	2.0	2.3	2.2	1.9	1.7

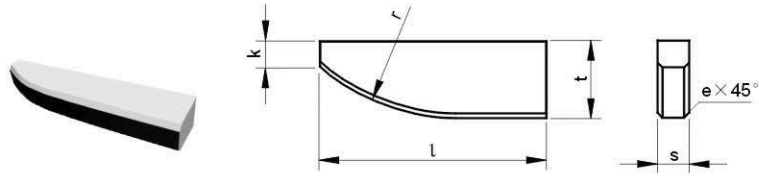
**Type E2** For making twist drills and straight groove drills



Type	Dimension(mm)				Approx unit weight(g)			
	l	t	s	r <sub>0</sub>	YG6	YG8	YT5	YT14
E210	10.8	9.0	2.0	1.0	2.1	2.0	1.8	1.6
E211	11.8	10.0	2.5	1.0	3.3	3.3	2.6	2.4
E213	13.0	11.0	2.5	1.0	3.3	3.8	3.3	3.0
E214	14.0	12.0	2.5	1.0	4.6	4.5	3.8	3.5
E215	15.0	13.0	2.5	1.0	5.2	5.1	4.4	4.0
E216	16.0	14.0	3.0	1.0	7.3	7.2	6.1	5.5
E217	17.0	15.0	3.0	1.5	8.2	8.1	6.9	6.3
E218	18.0	16.0	3.0	1.5	9.1	9.0	7.8	7.1

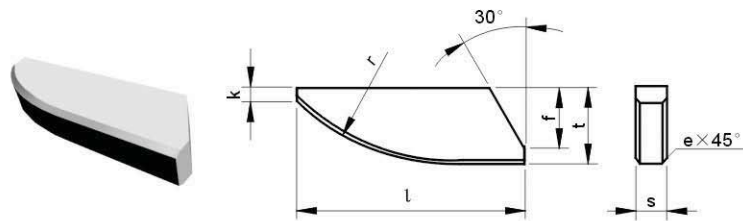
Type	Dimension(mm)				Approx unit weight(g)			
	l	t	s	r <sub>0</sub>	YG6	YG8	YT5	YT14
E219	19.0	17.0	3.0	1.5	10.3	10.2	8.7	7.9
E220	20.0	18.0	3.5	1.5	13.6	13.4	11.2	10.2
E221	21.0	18.0	3.5	1.5	14.3	14.1	11.7	10.7
E222	22.0	18.0	3.5	1.5	14.7	14.5	11.2	11.1
E223	23.0	18.0	4.0	1.5	17.7	17.5	14.5	13.2
E224	24.0	18.0	4.0	1.5	18.4	18.2	15.0	13.7
E225	25.0	22.0	4.5	2.0	26.2	25.7	19.8	18.0
E226	26.0	22.0	4.5	2.0	26.3	26.0	20.5	18.5
E227	27.5	22.0	4.5	2.0	29.5	29.2	21.5	19.5
E228	28.5	22.0	4.5	2.0	30.0	29.0	22.0	20.0
E229	29.5	24.0	5.0	2.0	38.5	37.5	28.0	25.5
E230	30.5	24.0	5.0	2.0	39.0	38.0	29.0	26.5
E231	31.5	24.0	5.0	2.0	40.0	39.0	29.5	27.0
E233	33.5	26.0	5.0	2.0	46.0	45.5	34.5	31.0
E236	36.5	26.0	5.0	2.0	50.0	49.0	37.0	33.5
E239	39.5	26.0	5.0	2.0	53.0	52.0	39.0	35.5
E242	42.0	28.0	6.0	2.0	72.5	71.0	54.0	49.5
E244	44.0	28.0	6.0	2.0	75.0	74.0	56.0	51.0
E247	47.0	28.0	6.0	2.0	78.0	77.0	59.0	54.0
E250	50.0	30.0	6.0	2.0	89.0	88.0	68.0	62.0
E252	52.0	30.0	6.0	2.0	91.0	90.0	82.5	73.2

**Type E3** For making end mills and key seat mills



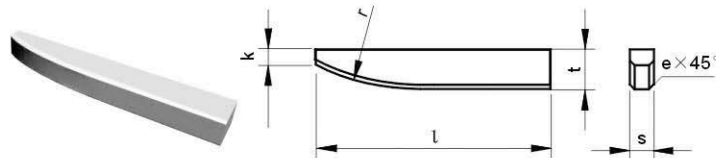
Type	Dimension(mm)						Approx unit weight(g)			
	l	t	s	k	r	e	YG6	YG8	YT5	YT14
E312	12.0	6.0	1.5	1.5	20.0	/	1.3	1.3	1.0	0.9
E315	15.0	3.5	2.0	1.5	20.0	/	1.4	1.4	1.2	1.1
E315A	15.0	7.0	2.0	2.5	25.0	/	2.4	2.3	2.1	2.0
E320	20.0	4.5	2.5	2.5	25.0	/	2.9	2.8	2.7	2.5
E320A	20.0	6.0	3.5	2.5	25.0	0.5	5.3	5.3	4.2	3.9
E320B	20.0	9.0	2.5	3.5	30.0	0.5	5.6	5.6	4.5	4.1
E325	25.0	8.0	3.0	3.5	30.0	0.5	7.1	7.1	6.9	6.2
E325A	25.0	15.0	3.0	3.5	30.0	0.5	13.1	12.9	11.2	10.0
E330	30.0	10.0	4.0	3.5	30.0	0.5	15.3	15.0	12.9	11.7
E330A	30.0	21.0	4.0	3.5	30.0	0.5	29.5	29.2	24.5	21.9
E335A	35.0	10.0	5.0	3.5	30.0	0.8	22.9	22.5	19.5	17.6
E340	40.0	12.0	5.0	3.5	30.0	0.8	26.1	26.8	22.0	20.2
E345	45.0	12.0	6.0	3.5	30.0	0.8	41.6	41.0	35.0	31.6

**Type E4** For making broaching drills



Type	Dimension(mm)							Approx unit weight(g)			
	l	t	s	f	r	k	e	YG6	YG8	YT5	YT14
E415	15.0	4.0	2.0	2.5	15.0	1.5	/	1.4	1.4	1.2	1.1
E418	18.0	5.0	2.5	3.5	20.0	1.5	0.5	2.9	2.8	2.2	2.0
E420	20.0	6.0	3.0	5.0	25.0	1.5	0.5	4.1	4.0	3.4	3.0
E425	25.0	8.0	3.5	6.0	25.0	2.0	0.5	8.0	7.9	7.0	6.2
E430	30.0	10.0	4.0	8.0	30.0	2.0	0.5	13.1	12.9	11.4	10.3

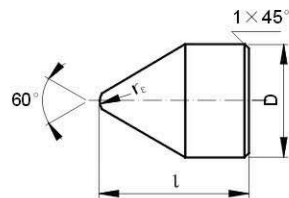
**Type E5** For making reamers



Type	Dimension(mm)						Approx unit weight(g)			
	l	t	s	r	k	e	YG6	YG8	YT5	YT14
E515	15.0	2.5	1.3	20.0	1.5	/	0.7	0.7	0.6	0.6
E518	18.0	3.0	1.5	25.0	1.5	/	1.2	1.2	0.9	0.8
E522	22.0	3.5	2.0	25.0	1.5	/	2.0	2.0	1.6	1.5
E525	25.0	4.0	2.5	30.0	2.0	/	3.4	3.3	2.8	2.6
E530	30.0	5.0	3.0	30.0	2.0	0.5	6.0	5.9	5.1	4.6
E540	40.0	6.0	3.5	30.0	2.0	0.5	11.7	11.5	9.5	8.8



**Type F1** For making lathe center and external grinder center



Type	Dimension(mm)			Approx unit weight(g)			
	D	l	r <sub>ε</sub>	YG6	YG8	YT5	YT14
F108	8.0	15.0	1.0	8.0	7.8	7.4	6.6
F112	12.0	20.0	1.5	22.5	22.0	19.4	17.2
F115	15.0	24.0	1.5	41.0	40.2	35.3	31.3
F118	18.0	28.0	2.0	68.5	67.1	58.9	52.3
F124	24.0	35.0	2.0	152.0	149.0	130.7	116.0
F130	30.0	40.0	2.5	255.0	250.0	219.3	194.7
F136	36.0	50.0	2.5	470.0	460.6	404.2	358.8
F140	40.0	60.0	3.0	760.0	744.8	653.6	580.1