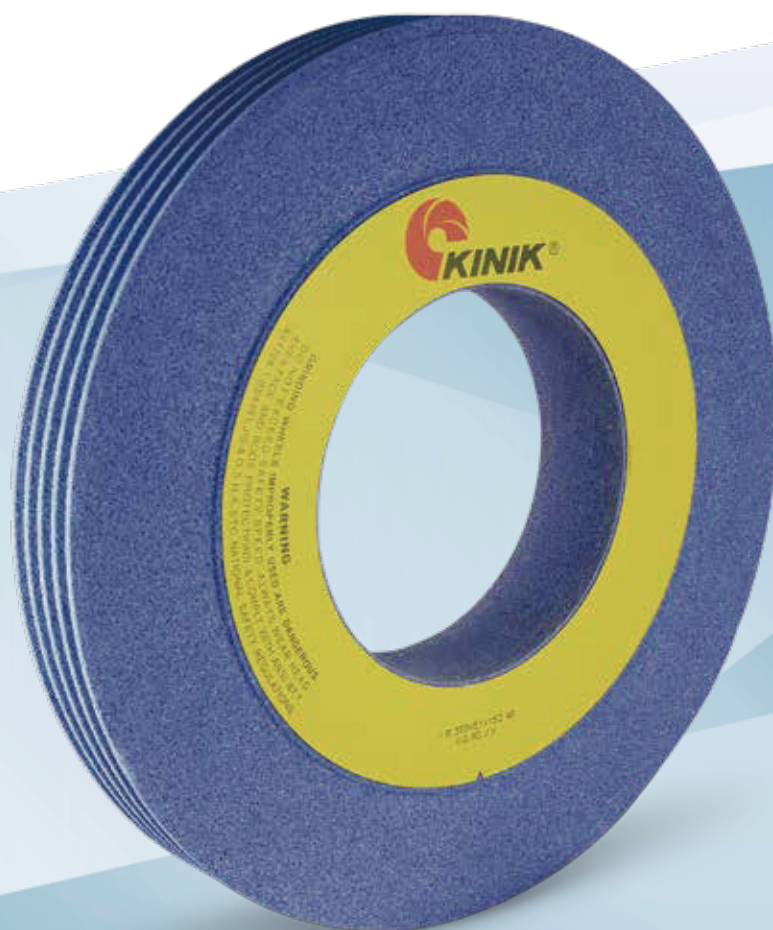




CATALOGUE & TECHNICAL GUIDE





Headquarter , Taipei

KINIK, which was established in 1953, is the first manufacturer of grinding wheel in Taiwan, and has 17 distributors all over the world. We continually optimize the quality of our products and service in every industrial market.



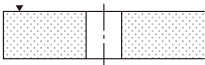
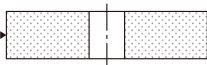
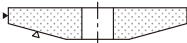
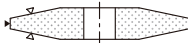
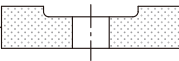
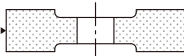
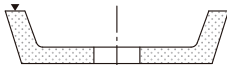
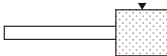
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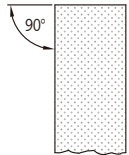
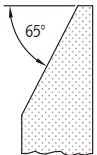
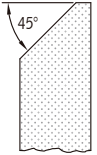
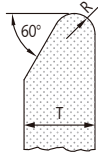
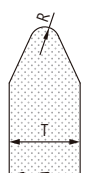
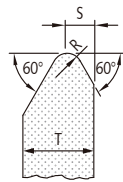
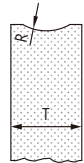
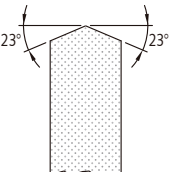
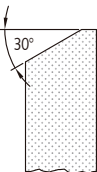
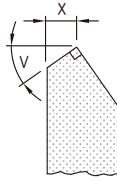
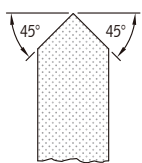
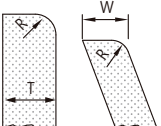
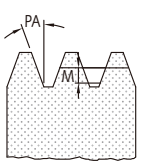
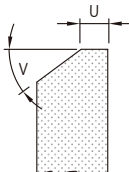
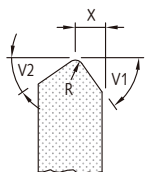
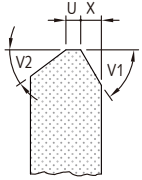
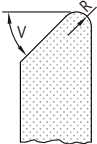
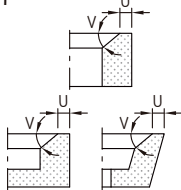
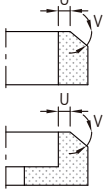
Conventional Grinding Wheel

1	A	305 x 25 x 127	WA	46	K	8	V	7N
1	2	3	4	5	6	7	8	9

1.Shapes : These drawings are main geometries, other shapes can be custom-made.

0 Circular 	1 Straight 	2 Cylinder 
3 Tapered one side 	4 Tapered two side 	5 Recessed one side 
6 Straight cup 	7 Recessed two side 	10 Raised dovetail 
11 Flaring cup 	12 Dish type 	27 Depressed center 
30 Cut-off 	40 Mounted 	60 Cuboid 

2.Faces

A 	B 	C 	D  $R = \frac{3}{10} T$	E 
F  $R = \frac{1}{2} T$	G  $R = \frac{1}{8} T$	H  $R = \frac{1}{8} T$	I  $R = \frac{1}{8} T$ $S = \frac{1}{3} T$	J  $R = \frac{7}{10} T$
K 	L  $R = T$	M 	N  $X \cdot V$ Customized	P 
Q  $R = \frac{T}{2}$ or $\frac{W}{2}$	R  $M \cdot PA$ Customized	S Customized	T  $U \cdot V$ Customized	U  $R \cdot V1 \cdot V2 \cdot X$ Customized
V  $U \cdot V1 \cdot V2 \cdot X$ Customized	W  $R \cdot V$ Customized	Y  $U \cdot V$ Customized	Z  $U \cdot V$ Customized	

3.Dimension

D x T x H
Diameter x Thickness X Hole

4.Abrasive

A、WA、FA、PA、RA、19A、32A、FSA、93A、80A、
C、GC、KG

5.Grit

10	240
12	280
14	320
16	400
20	500
24	600
30	700
36	800
46	1000
60	1200
80	1500
100	2000
120	2500
150	3000
180	4000
220	

6.Grade

F G H I J K L M N O P Q R S T
Soft ←————→ Hard

7.Structure : Volumn Percent of Abrasive

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
62 %	60 %	58 %	56 %	54 %	52 %	50 %	48 %	46 %	44 %	42 %	40 %	38 %	36 %	34 %

8.Bonds

V Vitrified
B Resin
R Rubber
Mg Magnesium Oxide

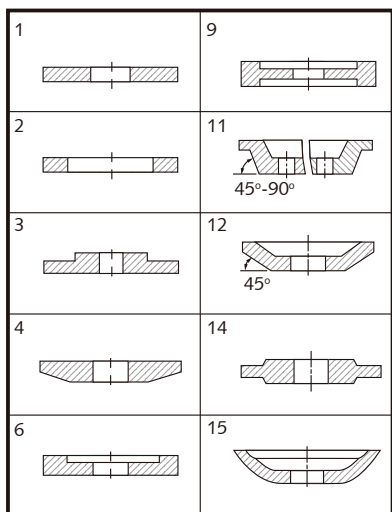
9.KINIK Symbol

KINIK Symbol

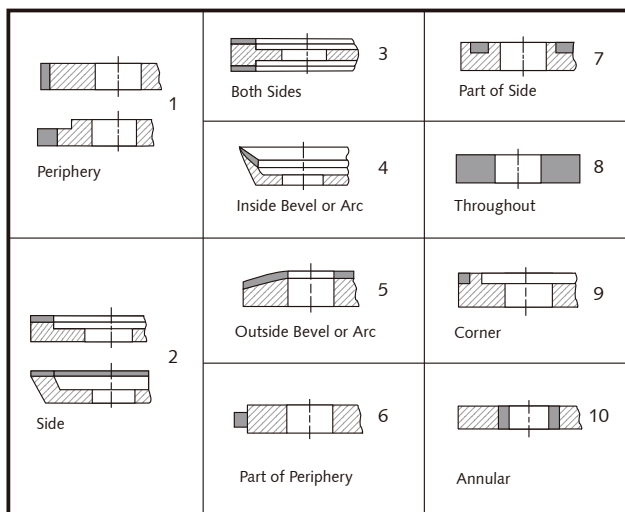
Superabrasive Grinding Wheel

6	A	2	C	305 x 25 x 127	B	170	N	100	B	3.0
1	2	3	4	5	6	7	8	9	10	11

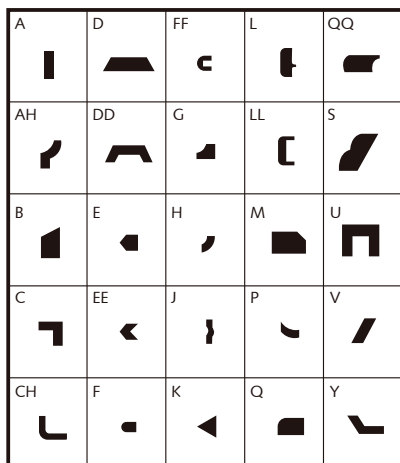
1. Basic Core Shapes



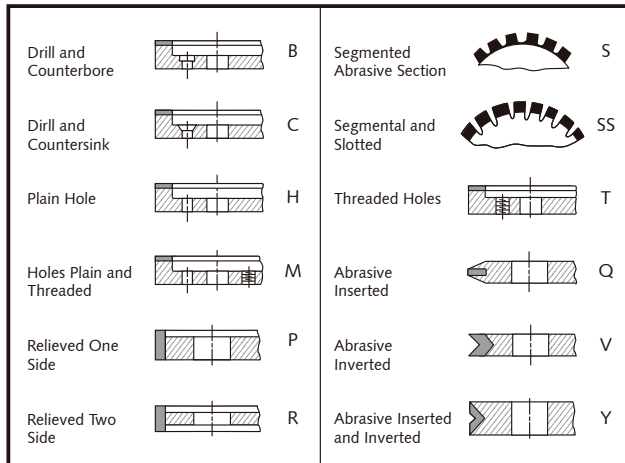
3. Location of Abrasive Section



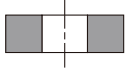
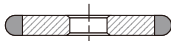
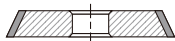
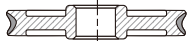
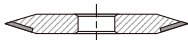
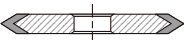
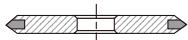
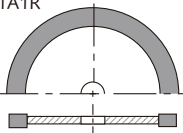
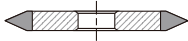
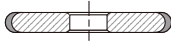
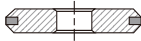
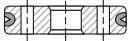
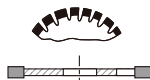
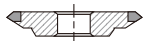
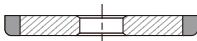
2. Shapes of Abrasive Cross Section

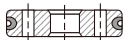
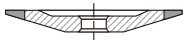
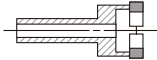
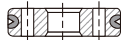
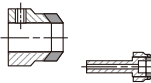
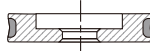
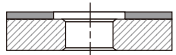
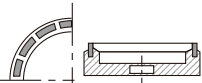
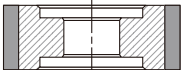
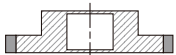
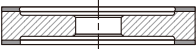


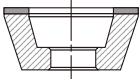
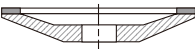
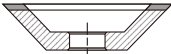
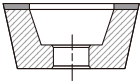
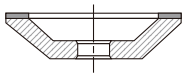
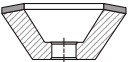
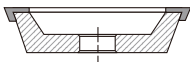
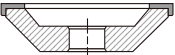
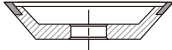
4. Modifications

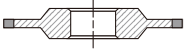
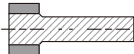
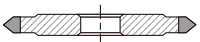
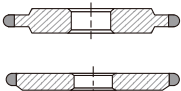
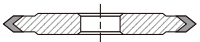


Standard Shapes :

1A8 	1B1 	1F1 	1V1 	1DD6Y 
1A1 	1B5 	1EE1 	1L1 	1E6Q 
1A1R 	1E1 	1FF1 	1A6Q 	1EE6Y 
1A1RSS 	1E9 	1Q1 		

1FF6y UR型 	3F2 鑽石彎磨器 	4M1 	6F2 	6P5 
1LL6y R付平底型 	3V21 	6A2 	6FF6Y 	
2A2 	4A2 	6A2S 	9A1 	
3A1 	4B2 	6A9 	9A3 	

11A2 	11V2 	12A2(20°) 	12V2 	
11B2 	11V4 	12A2(45°) 	12V4 	
11C9 	11V5 	12C9(20°) 	12V5 	
11EE9 	11V9 	12C9(45°) 	12V9 	

14A1 	14E6Q 	15A2 	15V9 	DW 
14E1 	14F1 	15V4 	HMF Honing Stones 	
14EE1 	14U1 	15V5 		

5. Dimension

D x T x H
Diameter x Thickness X Hole

7.Grit

Mesh (size > #400) ; μm (size < #400)

6.Abrasive

D : Diamond
B : CBN

8. Grade

J K L M N O P Q R S T
Soft ← → Hard

9. Concentration

Concentration	25	50	75	100	125	150
Volume %	6.25	12.5	18.75	25	31.25	37.5
carats/cm ³	1.1	2.2	3.3	4.4	5.5	6.6

10. Bonds

Type	Vitrified (V)	Resin (B)	Electroplated (P)	Sintered Metal (M)
Features	Due to the porosity: Free-cutting. Good dressability. Good profileability.	Bonds are softer. Better surface finish of workpiece.	Higher material removal rate due to the 30~50% protrusion ratio of grain diameter. Suitable for profiled wheel body.	Bonds are harder. Higher wear resistance. Longer tool life. Ideal for grinding wheels with sharp edge.

Conventional abrasives

Abrasive	Feature	Application
A	Brown aluminum oxide, hard and tough.	This is the most common used abrasive, especial for heavy duty grinding on general steels.
FA	The characteristic is between A and WA.	Special for precision grinding on alloy steels.
WA	White aluminum oxide , more friable than A.	Suitable for light grinding on general and hardened steels.
19A	Mixed abrasive of A and WA.	Precision grinding on alloy steels with low hardness.
FSA	Mixed abrasive of WA and FA	Precision grinding on alloy steels with medium hardness.
PA	Pink aluminum oxide , tougher than WA.	Good for precision or large surface grinding on hard alloy steels and tool steels.
RA	Red aluminum oxide , tougher than PA	Good corner-holding characteristics that are needed for precision grinding.
32A	Monocrystalline aluminum oxide, harder and tougher than WA, with sharp cutting edge	Precision grinding of high hardness tool steel and general grinding.
93A	Mixed abrasive of WA and RA	Mainly used for hardened steel and stainless steel.
KG	Ceramic aluminum oxide.	For the need of long tool life and high material removal rate grinding wheels.
80A	Similar to 32A	Precision grinding of high hardness tool steel and general grinding.
C	Black silicon carbide, harder and more friable than WA.	Suitable for non-ferrous metals, rubber, plastic, ceramics, glass and cast iron.
GC	Green silicon carbide, harder and more friable than C.	Besides the application of C, it's also used to grind solid carbide tools.

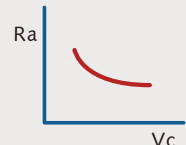
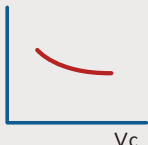
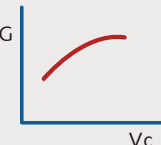
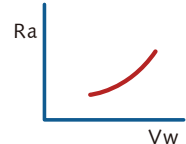
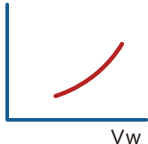
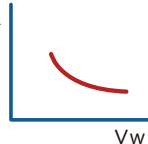
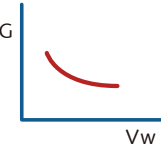
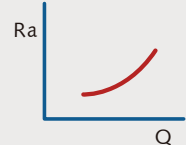
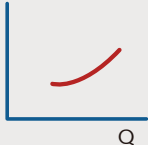
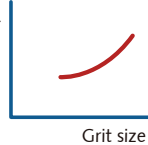
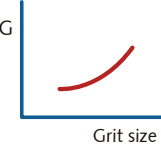
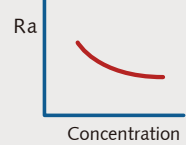
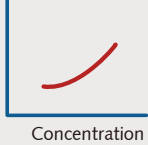
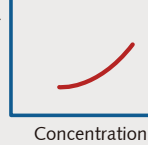
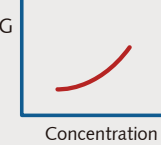
Please feel free to contact our sales engineer for more product information with your requirements.

Recommended applications of superabrasives

Abrasive	Vitrified	Resin	Electroplated	Sintered Metal
ND SD SDC	Cemented carbide, ceramic, gem, stone, crystal, ferrite, etc.	Non-ferrous metal, cemented carbide, ceramic, glass, quartz, ferrite, etc.	Steel, dental tools, rubber, glass, etc.	non-ferrous metal, cemented carbide, optical lens, concrete, etc.
B	Precision grinding and thread grinding for ferrous metal difficult to grind.			



The table shows some correlations between process variables and the grinding results.

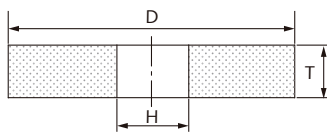
		Roughness	Cutting Force	Temperature	G ratio
Cutting Data	Cutting Speed V_c (m/s)				
	Workpiece Speed V_w (m/s)				
	Material Removal Rate Q (mm ³ /mm.s)				
Grinding Wheel	Grit size (μ m)				
	Concentration (%)				



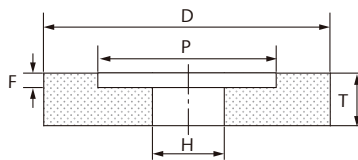
Cylindrical Grinding Wheels

Conventional

1A



5A

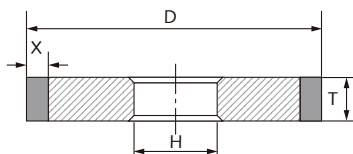


Unit : mm

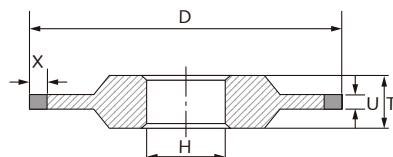
Shape	D	T	H	P x F	Spec.	Part No.	Package
1A	100	10	25.40		PSA60L8V	YVS10017	1
1A	305	25	101.6		GC120K9V	YVG55007	1
1A	355	50	127		FA60K8V	YVF16026	1
1A	510	32	254		FSA80I8V	YVE58015	1
1A	540	22	304.8	240 x 15	KG120J8V	YVK58058	1
5A	405	55	127	190 x 15	FA80K7V	YWF57074	1
5A	405	55	101.6		PSA80L7V	YWS57213	1

Superabrasive

1A1



14A1



Unit : mm

Shape	D	T	H	U	X	Spec.	Package
1A1	200	15	15.88	15	5	D170N75BD	1
14A1	300	25	101.6	10	6	D100P100BW	1

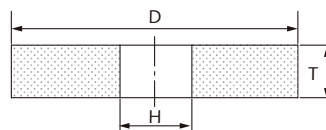


Surface Grinding Wheels



Conventional

1A



Unit : mm

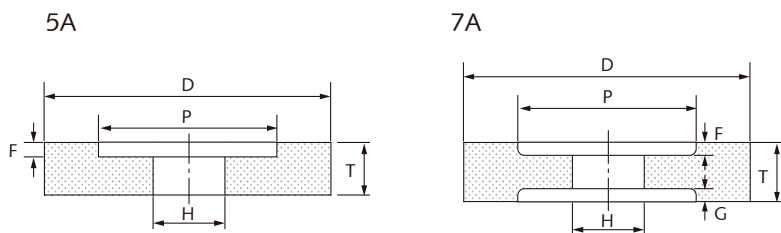
Shape	D	T	H	Spec.	Part No.	Spec.	Part No.	Package
1A	180	3	31.75	WA80K8V	YVY52029	32A120K7V	YVH52034	20
				WA100K8V	YVZ52053			
1A	180	6	31.75	WA46K8V	YVW52004	32A120K7V	YVH52001	10
				WA60K8V	YVX52004	32A180K8V	YVH52006	
				WA80K8V	YVY52004	MA120K8V	YVH52057	
				WA100K8V	YVZ52012	MA220K8V	YVH32904	
				WA120K8V	YVZ52005			
1A	180	8	31.75	WA60K8V	YVX52003			10
				WA80K8V	YVY52005			
				WA100K8V	YVZ52008			
				WA120K8V	YVZ52032			
1A	180	10	31.75	WA46K8V	YVW52009			10
				WA60K8V	YVX52009			
				WA80K8V	YVY52006			
				WA100K8V	YVZ52006			
				WA120K8V	YVZ52007			

Unit : mm

Shape	D	T	H	Spec.	Part No.	Spec.	Part No.	Package
1A	180	13	31.75	WA46J8V	YVW52007	93A46H11V	YVR52006	5
				WA46K8V	YVW52003	93A60H9V	YVR52016	
				WA60K8V	YVX52002	GC90H9V	YVG52007	
				WA80K8V	YVY52007	5KG46H11V	YVK52008	
				WA100K8V	YVZ52002	5KG46K9V	YVK52012	
				WA120K8V	YVZ52011	5KG60J9V	YVK52020	
1A	180	16	31.75	WA46K8V	YVW52014	93A46H11V	YVR52007	5
				WA60K8V	YVX52021			
				WA80K8V	YVY52012			
1A	205	6	31.75	WA46K8V	YVW53064			10
				WA60K8V	YVX53024			
				WA80K8V	YVY53015			
				WA100K8V	YVZ53007			
				WA120K8V	YVZ53017			
1A	205	10	31.75	WA46K8V	YVW53069			10
				WA80K8V	YVY53006			
1A	205	13	31.75	WA46K8V	YVW53021	PA46H8V	YV53005	10
				WA60K8V	YVX53017	93A46H11V	YVR53010	
				WA80K8V	YVY53003			
				WA100K8V	YVZ53004			
				WA120K8V	YVZ53003			

Unit : mm

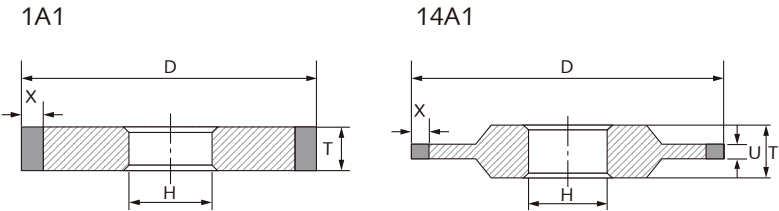
Shape	D	T	H	Spec.	Part No.	Spec.	Part No.	Spec.	Part No.	Package
1A	305	32	76.2	WA46K8V	YVW55018					4
1A	305	32	127	WA46K8V	YVW55004	32A46H9V	YVS65001			4
1A	305	38	127	WA46K8V	YVW55008					3
1A	355	38	127	WA46K8V	YVW56008	32A46H9V	YVH56051	5KG46G13V	YVK56010	2
				WA60J8V	YVX56035	32A46J12V	YVS56008			
				WA60K8V	YVX56005	93A46H11V	YVR56002			
				32A46J9V	YVH66001	RA46I10V	YVR66007			
1A	355	50	127	WA46J8V	YVW56002	32A46J9V	YVH66007	5KG46G13V	YVK56012	2
				C46I8V	YVC56013	93A46H11V	YVR56003			
1A	405	50	127	WA46K8V	YVW57003	93A46H11V	YVR67002	5KG46H11V	YVK57001	1



Unit : mm

Shape	D	T	H	P x F x G	Spec.	Part No.	Spec.	Part No.	Package
5A	180	19	31.75	100 x 6	WA46K8V	YWW52001	93A46H11V	YWR52004	5
					WA60K8V	YWX52002			
					WA80K8V	YWY52002			
5A	180	25	31.75	100 x 12	WA46K8V	YWW52002	93A46H11V	YWR52009	5
					WA60J8V	YWX52001	93A60H8V	YWR52037	
					WA60K8V	YWX52007			
					WA80K8V	YWY52001			
5A	180	32	31.75	100 x 16	WA46K8V	YWW52004	93A46H11V	YWR52010	5
					WA60J8V	YWX52009			
					WA80K8V	YWY52005			
5A	205	19	31.75	100 x 6	WA46K8V	YWW53004	93A46H11V	YWR53052	10
					WA60K8V	YWX53007			
5A	205	25	31.75	100 x 12	WA46K8V	YWW53001			10
					WA60K8V	YWX53008			
5A	205	32	31.75	100 x 16	WA46K8V	YWW53006			5
					WA60K8V	YWX53014			
7A	355	50	127	205 x 9 x 9	WA46J8V	YWW76002	PSA46H10V	YWS76006	2

Superabrasive



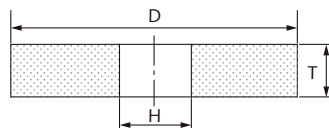
Shape	D	T	H	U	X	Spec.	Part No.	Package
1A1	150	10	31.75		5	D140P75BW	DBA4B007B	1
	175	10	31.75		5	D140O75BW	DBA5B004B	
						B140L75BW	DBA5Q004B	
14A1	350	25	127	10	5	D120Q70BW	DBS8A124B	
						B100Q70BW	DBS8P097P	
	350	32	127	15	5	D120Q70BW	DBS8A126B	
						B100Q60BW	DBS8P098P	
				20	5	D120Q70BW	DBS8A128B	
						B100Q70BW	DBS8P100B	



Rough Grinding Wheels

Conventional

1A



Unit : mm

Shape	D	T	H	Spec.	Part No.	Spec.	Part No.	Package
1A	65	16	7.0	38A60K8V	YXT16001			10
1A	75	13	9.53			GC120M9V	YXG17012	10
1A	75	13	12.7	38A60P8V	YXT17004			10
1A	100	100	25.4	C36J8V3G	YVC80003	GC120M9V	YXG17012	10
1A	150	6	12.7	38A80L8V 38A100L8V	YVT21011 YVT21002	GC120J9V	YVG21015	10
1B	150	6	12.7	38A100L8V	YWT01002	GC120J9V	YWG01001	10
1B	150	6	19.05	38A100L8V	YWT01004			10
1A	150	19	12.7	A36P7V	YVA01008	GC120J9V	YVG21005	10
				A46P7V	YVA11008			
				A60P7V	YVA11035			
				38A36M8V	YVT01002			
				38A46M8V	YVT11001			
				38A60L8V	YVT11009			
				38A80L8V	YVT21007			
1A	180	3	31.75	WA100K8V	YVZ52053			10
1A	205	6	15.88	38A60L8V	YVT13025	GC120J9V	YVG23012	10
				38A80L8V	YVT23010			
				38A100L8V	YVT23007			
1B	205	6	15.88	38A80L8V 38A100L8V	YWT03003 YWT03001	GC120J9V	YWG03004	10
1A	205	6	19.05	38A60L8V	YVT13011	GC120J9V	YVG23011	10
				38A100L8V	YVT23008			
1B	205	6	19.05	38A100L8V	YWT03004			10

Unit : mm

Shape	D	T	H	Spec.	Part No.	Spec.	Part No.	Package
1A	205	6	25.4	38A100L8V	YVT23012			10
1B	205	6	25.4	38A100L8V	YWT03006			10
1A	205	10	15.88	38A60L8V	YVT13010	GC120J9V	YVG23025	10
1A	205	19	15.88	A36P7V	YVA03004	GC90J9V	YVG23013	10
				A46P7V	YVA13007	GC120J9V	YVG23010	
				A60P7V	YVA13021	C46M8V	YVC13003	
				38A36M8V	YVT03003			
				38A46M8V	YVT13003			
				38A60L8V	YVT13006			
				38A80L8V	YVT23002			
1A	205	19	19.05	A36P7V	YVA03016	GC120J9V	YVG23009	10
				38A36M8V	YVT03001			
				38A46M8V	YVT13002			
				38A80L8V	YVT23001			
1A	205	25	15.88	A36P7V	YVA03006	GC120J9V	YVG23017	10
				38A36M8V	YVT03002			
				38A46M8V	YVT13018			
1A	205	25	19.05	38A46M8V	YVT13015	GC120J9V	YVG23018	10
1A	205	25	25.4	A36P7V	YVA03008	GC120J9V	YVG23026	10
				38A46M8V	YVT13019			
				38A60L8V	YVT13029			
				38A80L8V	YVT23025			
1A	255	13	25.4	38A80L8V	YVT24006			5

Unit : mm

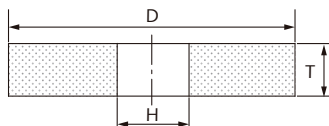
Shape	D	T	H	Spec.	Part No.	Spec.	Part No.	Package
1A	255	25	25.4	A36P7V	YVA04007	GC90I9V	YVG24008	5
				A46P7V	YVA14026	GC120J9V	YVG54004	
				A60P8V	YVA14011	GC220J9V	YVG34001	
				38A36M8V	YVT04001	C36M7V	YVC04003	
				WA46M8V	YVT14001	C46M8V	YVC14001	
				WA60L8V	YVT14005			
				WA80L8V	YVT24002			
1A	305	25	25.4	A24P7V	YVA05008	C46M8V	YVC15004	5
				38A46M8V	YVT15011	GC90I9V	YVG25011	
				38A60L8V	YVT15003	GC120M9V	YVG25016	
						GC120M9V	YVG25004	
						GC120J9V	YVG55004	
1A	305	32	25.4	A36P7V	YVA05017			4
1A	355	38	25.4	AZ24P8B	YSA36001			2



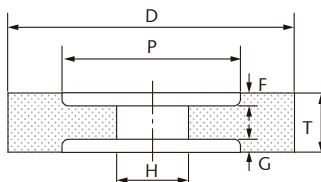
Centerless Grinding Wheels

Grinding Wheel

1A



7A



Unit : mm

Shape	D	T	H	P x F x G	Spec.	Part No.	Spec.	Part No.	Package
7-1A	305	150	120	175x25x25			FA80M8V	YWF75017	1
7A	305	150	120	175x25x25	38A60M8V 38A80M8V	YWT75011 YWT75004			
7A	455	205	228.6	300x25x25			FA60K7V	YWF77012	

Regulating Wheel

Unit : mm

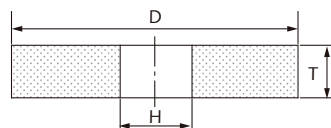
Shape	D	T	H	P x F x G	Spec.	Part No.	Package
1A	205	100	90		A120RR	YUA43004	1
7A	205	150	90	130x25x25	A120TR	YUA83001	
1A	230	205	127		A150OR	YUA54021	
7A	255	205	111.2	175x75x20	A150TR	YUA84003	
				175x25x75	A150STR	YUA84057	
1A	255	205	111.2		A120RR	YUA54001	
1A	255	305	111.2		A150OR	YUA54011	
7A	305	205	127	200x64x38	A150RR	YUA85019	
1A	305	205	127		A150RR	YUA55004	
					A150RR	YUA55065	
1A	330	305	127		A150OR	YUA55069	
1A	355	305	152.4		A150OR	YUA56011	



Circular Saw Grinding Wheel

Conventional

1A

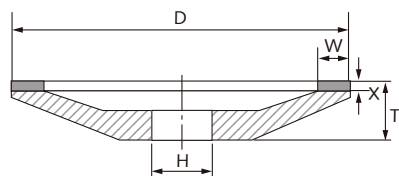


Unit : mm

Shape	D	T	H	Spec.	Part No.	Package
1A	150	1.5	25	RA100NV	YVR71044	25
	150	1.6	25	RA100NV	YVR71040	25
	150	1.75	25	RA100NV	YVR71041	25
	150	2.0	25	RA100NV	YVR71038	20
	150	3.0	25	RA100NV	YVR71043	15
	200	1.5~3.0	32	RA100NV		15
	230	1.6~3.2	32	RA100NV		15

Superabrasive

12A2



Unit : mm

Shape	D	T	H	W	X	Spec.	Part No.	Package
12A2_BK	150	15	16	6	2	D500N75BW	DBU4C068	1
	150	15	20	6	2	D500N75BW	DBU4C117	1
	150	14	16	6	1	D500N75BW	DBU4C118	1
	150	14.5	16	6	1.5	D500N75BW	DBU4C120	1
	150	15	16	10	2	2D500P75BW	DBU4C070	1

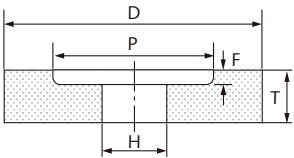
BK : Bakelite Body



Tools Grinding Wheels

Conventional

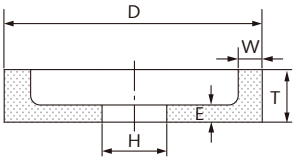
5A



Unit : mm

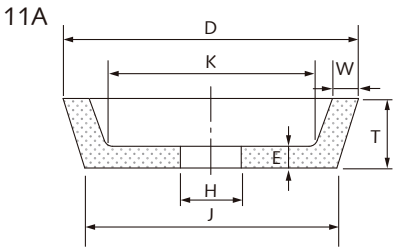
Shape	D	T	H	P x F	Spec.	Part No.	Package
5A	100	20	25.4	60 x 10	PA80KV	YWP50021	10
					PSA120LV	YWS50003	
					PSA220IV	YWS50041	

6A



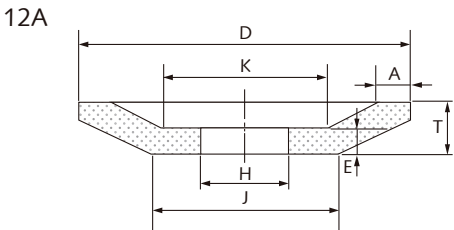
Unit : mm

Shape	D	T	H	W x E	Spec.	Part No.	Package
6A	73	38	7.94	8 x 10	38A60NV	YXT27008	45
					38A80KV	YXT27004	45
	100	50	20	13 x 13	WA80LV	YWY60009	16
					WA80MV	YWY60008	16
	125	35	19.05	25 x 10	GC120HV	YWX60033	8
	125	50	31.75	13 x 13	WA60JV	YWG60084	12
	180	125	25.4	25 x 25	38A36KV	YWT62001	1



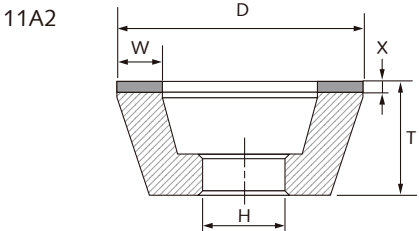
Unit : mm

Shape	D	T	H	W x E	J x K	Spec.	Part No.	Package
11A	100	50	31.75	10 x 13	75 x 60	WA60JV	YWX40014	16
	125	50	31.75	6 x 13	95 x 70	WA60IV	YWX40001	8



Shape	D	T	H	A x E	J x K	Spec.	Part No.	Package
12A	150	19	31.75	10 x 10	75 x 75	WA60JV	YWX31002	10

Superabrasive



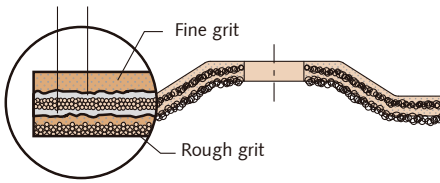
Unit : mm

Shape	D	T	H	X x W	Spec.	Part No.	Package
11A2	100	50	17	2 x 8	D170P75BD	DBN2B005B	1
	100	50	31.75	2 x 8	D170P75BD	DBN2B007B	1
	100	50	17	3 x 10	D170P75BD	DBN2B006B	1

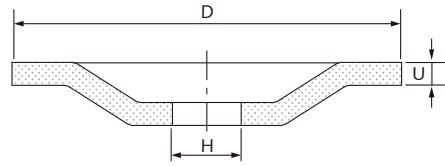


Depressed Center Wheels

Glass fiber reinforcement



27



Unit : mm

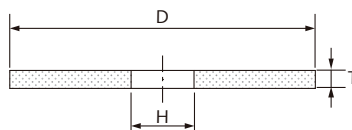
Shape	D	U	H	Spec.	Part No.	Package
27	50	4	9.53	A36QBF	SA2030	100
	65	4	9.53	A36QBF		
	75	4	9.53	A36QBF		
				WA46PBF	SY2020	
	100	3	16	A36QBF	SA2131	
	100	4	16	WA46PBF	SY2124	
	100	6	16	A24PBF	SB2120	
				A24QBF	SA2130	
				A24RBF	SA2146	
				A36QBF	SA2132	
				AC24PBF	SL2120	
				WA24PBF	SY2120	
	125	6	22	A24PBF	SB2220	
				A24QBF	SA2230	
				A24RBF	SA2247	
				WA24PBF	SY2220	
	150	6	22	A24QBF2	SA2330	50
	180	3	22	A36QBF2		
	180	6	22	A24PBF	SB2420	
				A24QBF	SA2430	
				A24RBF	SA2446	
				AC24QBF	SL2430	
				WA24PBF	SY2420	

p.s. : no part no. means no stock



Cut-off Wheels

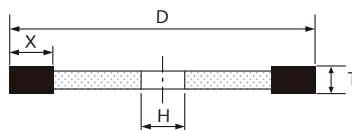
30



Unit : mm

Shape	D	T	H	Spec.	Part No.	Package
30	75	1.6	9.53	A46SBF2	SA1056	1000
	100	1.5	16	A36PBF2	SA1264	200
	100	2	16	A36SBF	SA1265	200
	180	2	22.23	AC36PBF	SA1420	100
	305	3	25.4	A24QBF	SA1630	25
				A30PBF	SB1620	
	355	3.5	25.4	A24QBF	SA1730	25
				A30PBF	SB1721	
	405	3.5	25.4	A24QBF	SA1830	25
				A30PBF	SB1820	
				FA30SBF	SL1856	

1A1R



Unit : mm

Shape	D	T	H	X	Spec.	Part No.	Package
1A1R	150	1	19.05	7	D120R100BW	DBB4B080B	1
	150	1	31.75	7	D120R100BW	DBB4B066B	
	200	1	19.05	8	D170R100BW	DBB6B019B	

Precision Type : Special process to manufacture the products with precise dimension and good property.

Unit : mm

Shape	D	T	H	Spec.	Part No.	Package
30	150	1.0	19.05	PA60PBR	SH7210	25
				PA60PBR-R	SN7210	
				WA60MB	SF0310	
				FA60PBF	SW1321	
				FA60PBF-R	SZ1321	
	180	0.5	31.75	SA60SBR	SH7300	50
				SA60SBR-R	SF7300	
		1.0	19.05	WA60MB	SF0411	25
				PA60PBR	SH7310	
		1.0	31.75	PA60PBR-R	SN7310	
				WA60MB	SF0410	
				WA80MB-R	SY0413	
		1.2	31.75	WA60PBR	SW7330	
	205	1.2	31.75	WA60PBR	SW7430	25
	230	1.2	31.75	WA120NB	SZ0511	50
	255	1.2	31.75	WA120NB	SZ0501	50
				A120PB	SL0502	
		2	31.75	WA120NB	SZ0502	
	305	1.2	31.75	A120PB	SM7820	30



Flexible Grinding Wheels



Fiber Discs

Flexible Grinding Wheels

Unit : mm

Shape	D	T	H	Spec.	Part No.	Package
27	100	2	16	WA60BFL	SW3120	100
				WA80BFL	SW3130	
				WA100BFL	SW3146	
				WA120BFL	SW3156	
	100	3	16	AC46BFL	SX3110	
				AC60BFL	SX3120	
				AC80BFL	SX3130	
				AC100BFL	SX3146	
				AC120BFL	SX3156	
				AZ60BFL	ST3120	
				AZ80BFL	ST3130	
				GC46BFL	SG3110	
				GC60BFL	SG3120	
				GC80BFL	SG3130	
				GC100BFL	SG3146	
				GC120BFL	SG3156	
				GC220BFL	SG3167	
				GC46SBFL	SG3111	
				GC60SBFL	SG3121	
				GC120SBFL	SG3157	
	180	3	22.23	AC60BFL	SX3420	50
				AC80BFL	SX3430	
				AC100BFL	SX3446	

Fiber Discs

Unit : mm

D	H	Spec.	Part No.	Package
100	15.9	CC16	SC4400	200
		CC20	SC4410	
		CC24	SC4412	
		CC30	SC4420	
		CC36	SC4422	
		CC40	SC4430	
		CC50	SC4432	
		CC60	SC4446	
		CC80	SC4447	
		CC100	SC4456	
		CC120	SC4457	
		CC220	SC4476	
125	15.9	CC16	SC4500	
		CC24	SC4513	
		CC30	SC4520	
		CC36	SC4523	
		CC40	SC4530	
		CC60	SC4546	
		CC80	SC4548	
125	22.2	CC24	SC4514	
		CC36	SC4524	
		CC40	SC4531	

D	H	Spec.	Part No.	Package
150	22.2	CC16	SC4603	200
		CC24	SC4612	
		CC36	SC4622	
		CC40	SC4630	
		CC60	SC4646	
		CC80	SC4647	
180	22.2	CC16	SC4703	
		CC24	SC4712	
		CC30	SC4720	
		CC36	SC4722	
		CC50	SC4732	
		CC60	SC4746	

Other abrasives also can be customized ; MOQ : 2000pcs

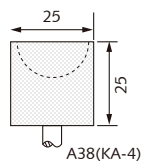
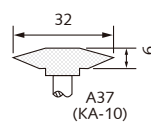
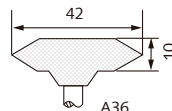
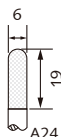
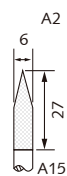
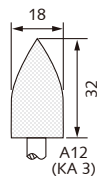
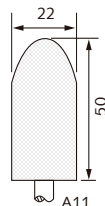
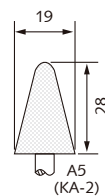
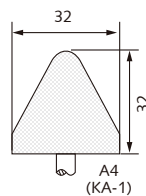


Mounted Points

A Type

Unit : mm

Shape	Type	Spec.	Part No.	Package
40	A3	38A46PV	YXT42001	10
		PA46PV	YXP42083	
	A4	38A46PV	YXT43002	20
	A5	38A46PV	YXT41002	
	A11	38A46PV	YXT42003	
		PA46PV	YXP42084	
	A12	38A60PV	YXT41006	
	A15	38A60QV	YXT40001	
		PA60QV	YXP40002	
	A24	PA60QV	YXP40007	
	A36	38A60PV	YXT44002	
	A37	38A60PV	YXT43003	
	A38	38A46PV	YXT42004	

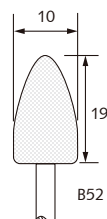
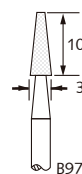
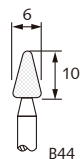
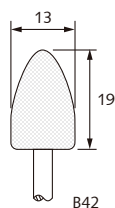


Standard shank diameter : Ø6X30

B Type

Unit : mm

Shape	Type	Spec.	Part No.	Package
40	B42	PA60QV	YXP51016	20
	B44	PA80QV	YXP50001	
	B52	PA60QV	YXP51002	
	B97	PA120QV	YXP50010	



Standard shank diameter : Ø3X30

W Type



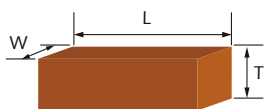
Unit : mm

Shape	Type	D	T	d	Spec.	Part No.	Package
40	W162	6	10	3	PA100TV	YXP60013	20
	W164	6	19	3	PA100TV	YXP60008	
	W176	10	13	3	PA60QV	YXP61038	
	W196	16	25	6	38A60PV	YXT61023	
	W205	19	25	6	38A46PV	YXT61002	
	W220	25	25	6	38A46PV	YXT62002	
	KA6	32	10	6	38A46PV	YXT63004	
	W230	32	32	6	38A46PV	YXT63002	
	W	6	25	6	38A60QV	YXT60016	
	W	8	25	6	38A60QV	YXT60019	
	W	10	25	6	38A60QV	YXT61010	
	W	13	25	6	38A60QV	YXT61022	
	KA5	16	32	6	38A46PV	YXT61045	



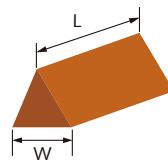
Sharpening Stones

50, 60



(50/n, n=blocks)

61



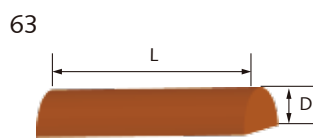
Unit : mm

Shape	L	W	T	Spec.	Part No.	Package
50	150	25	25	C24TV	YYC34002	100
		50	25	C24SV	YYC34003	50
	200	50	25	C20S	YYC36001	20
				C60M	YYC36010	
		75	50	C120M	YYC36011	
				C180M	YYC36014	
50/4	200	75	50	C20S	YYC36006	
50	200	50	25	WA80IV	YYY36002	
51	200	50	25	C120/220MV	YYC36002	20
	205	50	25	A120/400QV	YYA36001	
60	100	6	6	38A600QV	YYT82001	10
		10	10	38A600QV	YYT82008	
		10	10	GC220MV	YYG72002	
		13	13	38A600QV	YYT82004	
		13	13	GC220MV	YYG72003	
		13	3	38A600QV	YYT82011	
		25	13	38A600QV	YYT82007	
	150	30	2	WA500HV	YYV84067	20
	200	50	25	A400KV	YYA26003	
				A500LV	YYA26002	
				38A600QV	YYT26008	
61	100	6		38A600QV	YYT62002	10
		10		38A600QV	YYT62001	
		13		38A600QV	YYT62007	

Honing stone

Unit : mm

Shape	L	W	T	Spec.	Part No.	Package
70-1	100	11	13	GC2207V	YYG42010	10



Unit : mm

Shape	L	D	Spec.	Part No.	Package
62	100	6	38A600QV	YYT62009	10
		10	38A600QV	YYT62021	
63	100	6	38A600QV	YYT62003	
		13	38A600QV	YYT62006	

For Superabrasive Grinding Wheels

Unit : mm

Shape	L	W	T	Spec.	Part No.	Package
60	100	20	20	WA220HV	YYV72003	40
				WA400HV	YYV82005	
				WA1000HV	YYV82009	

Dressing wheels for superabrasive wheels

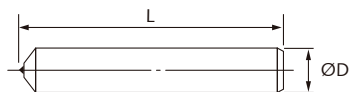
Unit : mm

Shape	D	T	H	W x E	Spec.	Part No.	Package
6A	125	35	19.05	25 x 10	GC120H8V	YWG60084	12
1A	75	25	12.7		C60M7V	YXC17003	5
					GC120H8V	YXG17015	5



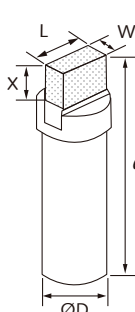
Dressing Tools

Single Point Diamond Dresser Impregnated Multi-Point Diamond Dressers

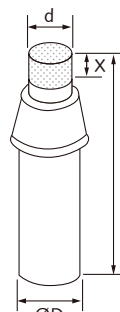


Unit : mm

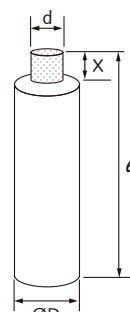
Spec.	L	D	Part No.
#5	100	10	DKB2C001B
#10	100	10	DKB2E001B
#20	100	10	DKB2F001B
#25	100	10	DKB2G001B
#33	100	10	DKB2H001B
#50	100	10	DKB2I001B
#5	100	12	DKB3C001B
#10	100	12	DKB3E002B
#10A	100	12	DKA3B001B
#20	100	12	DKB3F001B
#25	100	12	DKB3G001B
#33	100	12	DKB3H002B
#50	100	12	DKB3I001B
#75	100	12	DKB3G004B



2A6A8
2A6A9
2A8A9



1R6K8



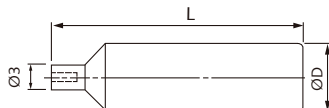
1R8L8
3R4L8
3R8L9

Grit Size
4: #46
6: #50~#100
8: #120

Unit : mm

Spec.	Grit Size	W	L	d	X	ℓ	D	Part No.
2A6A8	6	6	13		7	58	12	DDD0J003B
2A6A9	6	6	13		7	108	12	DDD0J004B
2A8A9	8	6	13		7	108	12	DDD0J008B
1R6K8	6			6	7	58	12	DDD0J005B
1R8L8	8			6	7	58	12	DDD0J007B
3R4L8	4			10	7	58	12	DDD1F001B
3R8L9	8			10	7	108	12	DDD1J002B

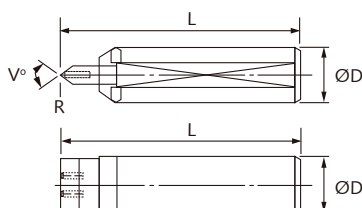
Single Point CVD Dresser



Unit : mm

Spec.	D	L	Part No.
804-1Z	10	50	DKD2Q001B
804-1Z	12	50	DKD3Q001B

CVD Dressing Tool



Unit : mm

Spec.	D	L	V° R	Part No.
804-2Z	10	50	V55° R0.3	DKL2Q001B
804-2Z	12	50	V55° R0.3	DKL3Q001B
804-3Z	10	50	V55° R0.3	DKL2Q002B
804-3Z	12	50	V55° R0.3	DKL3Q002B
1204-1Z	9.5	50	V60° R0.2	DKL5U004B

Recommendation of CVD Dressing Tool.

Unit : mm

Thickness	Diameter of wheel						
	100	150	250	255	305	355	405
13	1Z	1Z	2Z	2Z	3Z	3Z	3Z
25	1Z	2Z	2Z	3Z	3Z	3Z	
38	2Z	2Z	3Z	3Z	3Z	3Z	
50		2Z	3Z	3Z	3Z	3Z	
65		3Z	3Z	3Z	3Z	3Z	
75			3Z	3Z			



Dressing Board

Recommendation

Unit : mm

Spec.	Dicing Blades		
	Electroformed Bond	Metal Bond	Resin Bond
GC600	#400~#1200	#400~#1200	#200~#1000
GC1000	#1500~#2000	#1500~#2000	#1500~#2000
GC2000	#2000~#3000	N/A	N/A
GC3000	#3000	N/A	N/A
GC4000	#3000	N/A	N/A
GC6000	#4000	N/A	N/A
GC8000	#5000	N/A	N/A
WA400	N/A	#320~#400	N/A
WA800	#600~#1200	#400~#1200	N/A
WA1000	N/A	#1500~#2000	N/A
WA2000	N/A	#2000~#3000	N/A



Accessory

KGB-2010 Grinder Balance Instrument

Item	Spec.
Amplitude Resolution	0.01~2760 μm (@3600rpm)
Amplitude Range	0.01 μm (@3600rpm)
Phase Resolution	0.1°
rpm Range	400~20000 rpm
Sensor	Optical sensor
Sensing Range	5~60 mm
Vibration Sensor	Accelerometer 100 mv/g $\pm$ 20%
CPU	Vortex 300MHz (32 bits)
Display	320 x 240 dot LCD
Temperature	0°C~40°C
Power Consumption	5 W
Battery (Optional)	Li-on Rechargeable Battery
Power	VAC 110V/220V
Size	283 x 170 x 45 (mm)
Weight	1.6 kg (without battery)
Accessories	Accelerometer (with Magnetic Base) x 1
	Photoelectric Fiber-Optic (with Magnetic Base) x 1
	Power Adaptor x 1
	Kit (Glue, Sciccor, Reflection Paster)

Residual unbalance U : $U = m \times r$

U [g.mm] is the product of the unbalance mass m [g] and its distance to the rotational axis r [mm]. Residual unbalance U causes a centrifugal force F [N] to act on the rotating parts. This force will have a negative effect on the spindle.

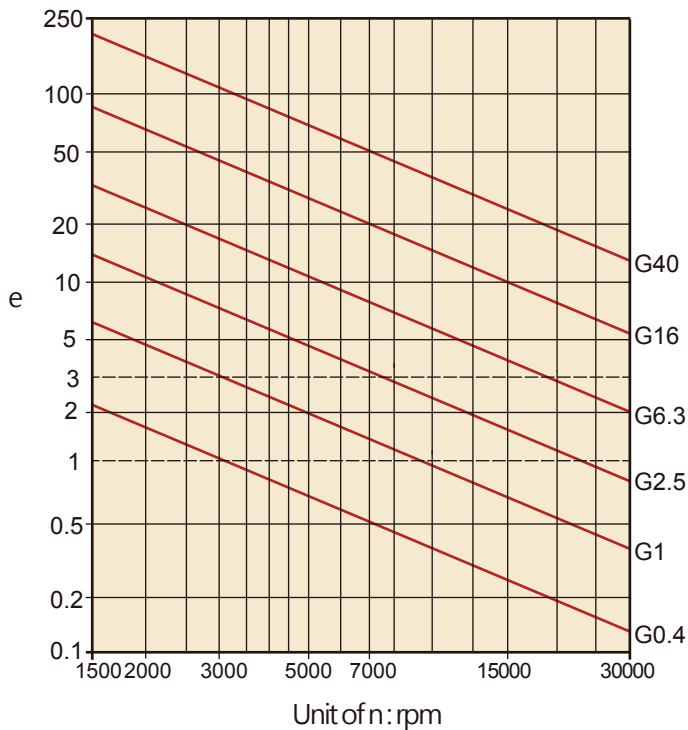
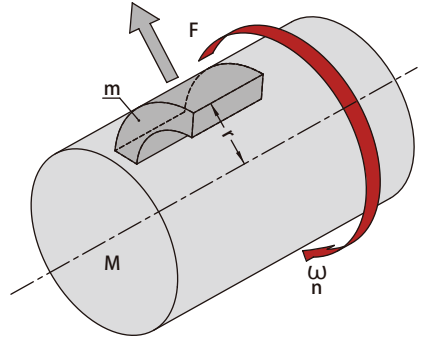
$$F = 10^{-6} \times U \times \omega^2$$

Specific unbalance e : $e = U/M$

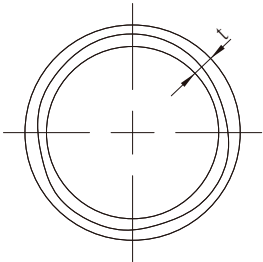
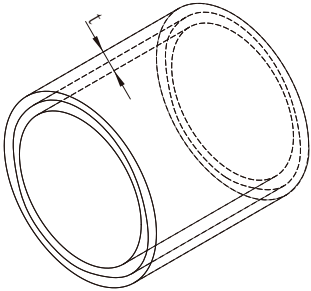
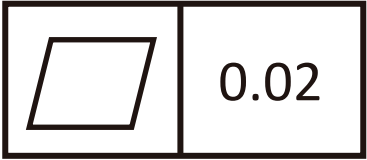
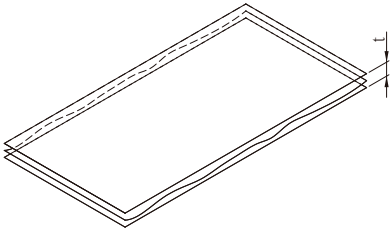
e is also called unbalance eccentricity : e [g.mm]/[kg] or [μ m] is the distance to which the center of gravity is offset in regard to the holder's rotational axis. What the balancing machine measures is the specific unbalance.

Balancing Quality G : $G = \frac{e}{1000} \times \omega$ $\{\omega = \text{rad/s} = \frac{2\pi n}{60}\}$

ISO 1940 has established G as the unit of measurement for the balance quality of rotating parts. G is the tangential speed of the center of gravity in reference to rotational axis.



Common tolerance										
Hole dia. (mm)	D10	E9	F8	G7	H6	H7	H8	H9	H11	Js7
≤3	+60 +20	+39 +14	+20 +6	+12 +2	+6 0	+10 0	+14 0	+25 0	+60 0	+/-5
> 3~6	+78 +30	+50 +20	+28 +10	+16 +4	+8 0	+12 0	+18 0	+30 0	+75 0	+/-6
> 6~10	+98 +40	+61 +25	+35 +13	+20 +5	+9 0	+15 0	+22 0	+36 0	+90 0	+/-7.5
> 10~18	+120 +50	+75 +32	+43 +16	+24 +6	+11 0	+18 0	+27 0	+43 0	+110 0	+/-9
> 18~30	+149 +65	+92 +40	+53 +20	+28 +7	+13 0	+21 0	+33 0	+52 0	+130 0	+/-10.5
> 30~50	+180 +80	+112 +50	+64 +25	+34 +9	+16 0	+25 0	+39 0	+62 0	+160 0	+/-12.5
> 50~80	+220 +100	+134 +60	+76 +30	+40 +10	+19 0	+30 0	+46 0	+74 0	+190 0	+/-15
> 80~120	+260 +120	+159 +72	+90 +36	+47 +12	+22 0	+35 0	+54 0	+87 0	+220 0	+/-17.5
> 120~180	+305 +145	+185 +85	+106 +43	+54 +14	+25 0	+40 0	+63 0	+100 0	+250 0	+/-20
> 180~250	+355 +170	+215 +110	+122 +50	+61 +15	+29 0	+46 0	+72 0	+115 0	+290 0	+/-23
> 250~315	+400 +190	+240 +110	+137 +56	+69 +17	+32 0	+52 0	+81 0	+130 0	+320 0	+/-26
> 315~400	+440 +210	+265 +125	+151 +62	+75 +18	+36 0	+57 0	+89 0	+140 0	+360 0	+/-28.5

	Drawing symbol	Tolerance area
Circularity		
Cylindricity		
Flatness		

[illegible]



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