



BEST

Since 1989



佳品研磨工具有限公司

CP TOOLS CO., LTD

廈門佳品金剛石工業有限公司

XIAMEN CHIAPING DIAMOND INDUSTRIAL CO., LTD.

Being honest, being reliable,
being capable and skillful



ABOUT US

Established in 1989, Xiamen Chia Ping Diamond Industrial Co., Ltd. manufactures and sells top quality diamond and CBN tools for mould and semiconductor industries throughout the world.

We have ISO9001 certified since 1996. We are also licensed by CQC.

The Taipei office, CP Tools Co., Ltd., was established in 2007 to serve customers in Taiwan.

As part of our long-term commitment to customer satisfaction, we endlessly innovate and constantly improve our technology.

We always maintain our leadership in quality and enjoy repeatedly customer appreciations.

We engage in the production and sale of diamond tools (CBN included) and their related products.

Our products cover electroplate products, resin products, metal products, ceramic products, diamond dressers and Wool products. Be able to satisfy the rough or fine polishing and moulding processing requirements of all kinds of materials such as hard alloy, hard mould steel, gems, semiconductor materials, glass and other hard materials or nonmetal materials.

The company mantra remains "manufacture an excellent product to help our customers be successful". We firmly believe our company motto is our path to success. Please contact us with any questions. We look forward to providing you excellent products and services!





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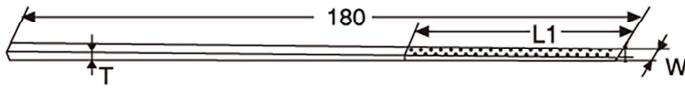


DIAMOND FILES

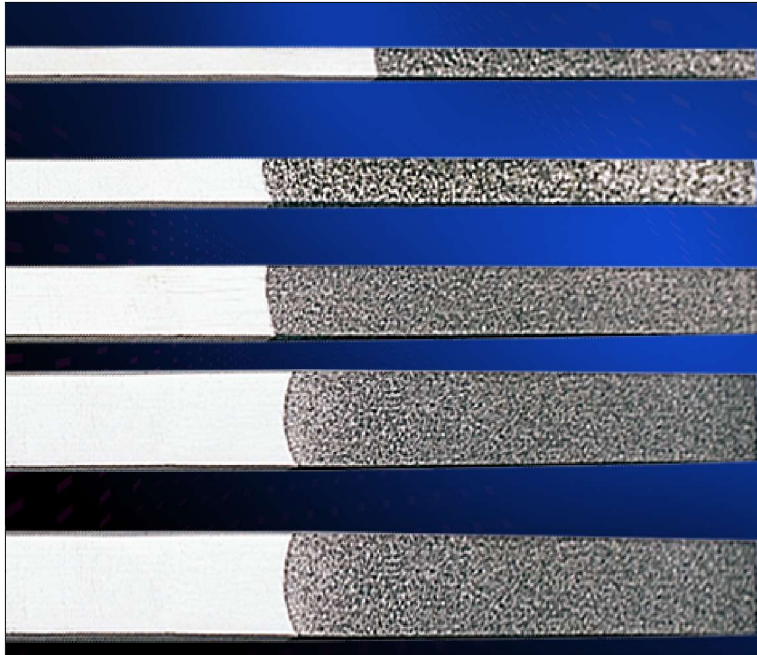


The taper files are designed for both the mould surface and slit grinding. Selection of different grit size can be reached from coarse to fine processing requirement.

CF-400 Diamond Taper Files Standard Type



Unit: mm

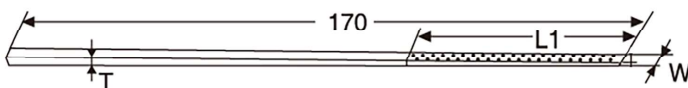


Order No.	Grit Size	W	L1	T
CF-402J	#150	2.5	40	1.6
CF-402F	#200			
CF-402V	#400			
CF-404J	#150	4	50	
CF-404F	#200			
CF-404V	#400			
CF-406J	#150	6		
CF-406F	#200			
CF-406V	#400			
CF-408J	#150	8		
CF-408F	#200			
CF-408V	#400			

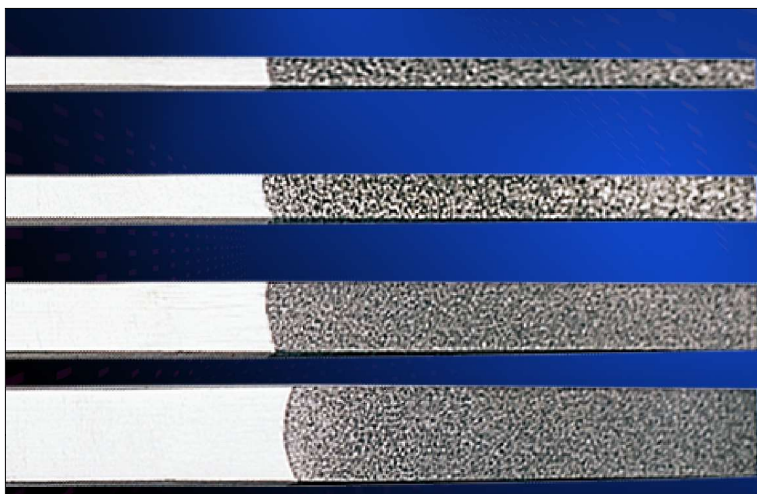
12 PCS/SET

CF-410J	#150	10	50	2.3
CF-410F	#200			
CF-410V	#400			

CF-600 Diamond Taper Files Durable Type



Unit: mm

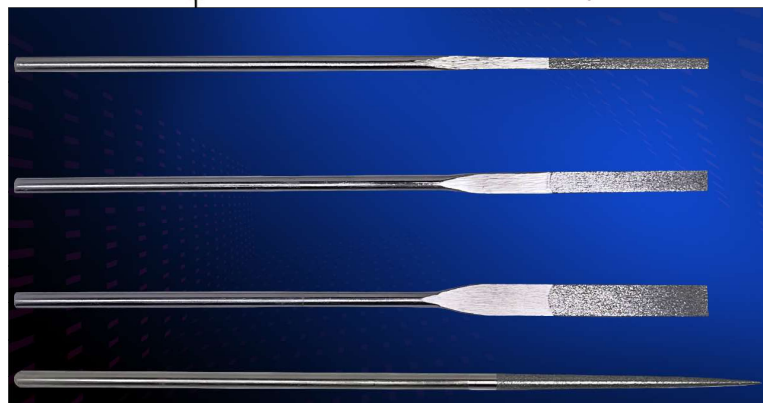
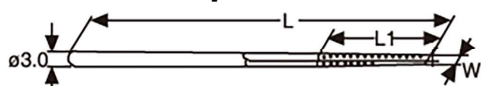


Order No.	Grit Size	W	L1	T
CF-602J	#150	2.5	50	1.6
CF-602F	#200			
CF-602V	#400			
CF-604J	#150	4		
CF-604F	#200			
CF-604V	#400			
CF-606J	#150	6		
CF-606F	#200			
CF-606V	#400			
CF-608J	#150	8		
CF-608F	#200			
CF-608V	#400			

12 PCS/SET

PTF-10 Diamond Taper Files with round handle, economical and compact design.

Unit: mm



Order No.	Grit Size	W	L	L1
PTF-12F	#200	2	130	30
PTF-12V	#400			
PTF-12X	#600			
PTF-14F	#200	4		
PTF-14V	#400			
PTF-14X	#600			
PTF-16F	#200	6		
PTF-16V	#400			
PTF-16X	#600			
PTF-103X	#600	0.5R	140	50

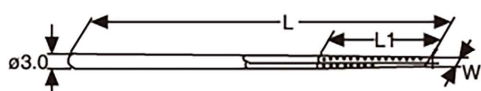
10 PCS/SET

Diamond Machine Taper Files

Fitting in with electric, pneumatic or ultrasonic lapping machine. This series files help dramatically improve working efficiency and reduce the intensity of labor at the same time.

MTP-120 Diamond Machine Taper Files Standard type

Unit: mm

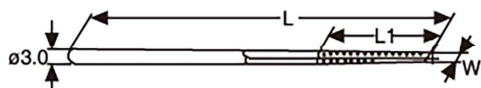


Order No.	Grit Size	W	L	L1
MTP-12J	#150	2	70	25
MTP-12F	#200			
MTP-12H	#300			
MTP-12V	#400			
MTP-14J	#150	4		
MTP-14F	#200			
MTP-14H	#300			
MTP-14V	#400			
MTP-16J	#150	6		
MTP-16F	#200			
MTP-16H	#300			
MTP-16V	#400			

12 PCS/SET

MTF-100 Diamond Machine Taper Files Durable type

Unit: mm

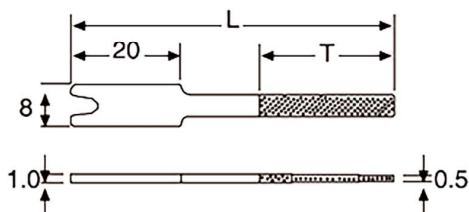
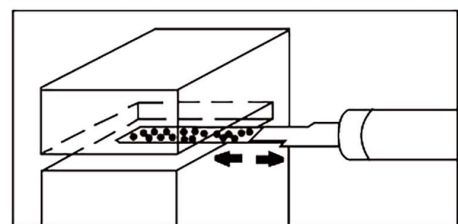
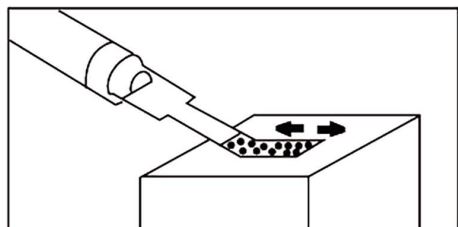


Order No.	Grit Size	W	L	L1
MTF-13F	#200	3	72	15
MTF-13V	#400			
MTF-13X	#600			
MTF-16F	#200	6		
MTF-16V	#400			
MTF-16X	#600			
MTF-23F	#200	3	56	
MTF-23V	#400			
MTF-23X	#600			
MTF-26F	#200	6		
MTF-26V	#400			
MTF-26X	#600			

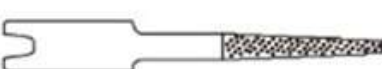
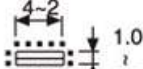
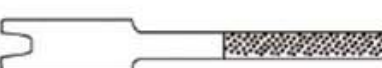


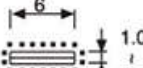

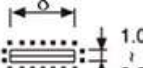
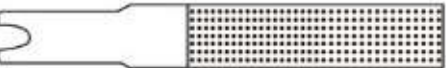
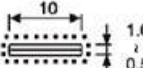


12 PCS/SET

Features

- ◆ With the maximum thickness of only 1mm, and tapered design makes the files suitable for narrow and deep gap processing, and makes difficult-to-reach areas readily accessible.
- ◆ Adoption of spring steel substrate makes it possible to maintain the hardness and flexibility when the files are bent to use.
- ◆ Apart from many kinds of lapping machine. FA files can also attach to smart handle XH-12 which is very convenient and comfortable to operate.

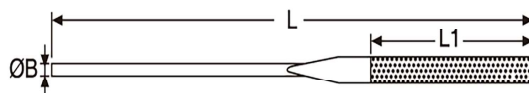


Unit: mm

	Shape	L	T	Grit size	Order No.
		60	25	#150 #200 #400 #600	★ FA-426J ★ FA-426F ★ FA-426V FA-426X
		60	25	#150 #200 #400 #600	★ FA-446J ★ FA-446F ★ FA-446V FA-446X
		70	40	#150 #200 #400 #600	★ FA-667J ★ FA-667F ★ FA-667V FA-667X
		70	40	#150 #200 #400 #600	★ FA-887J ★ FA-887F ★ FA-887V FA-887X
		70	40	#150 #200 #400 #600	FA-107J FA-107F FA-107V FA-107X
		136	Smart Handle		XH-12

FA-120 12 PCS/SET(each one with ★)

These series files are applied to the mould and all kinds of products, parts with specified shape requirements.



PF-10 Diamond Precision Files

Standard type

Grit size: **#150 #200 #400 #600**

Unit: mm



Order No.	Cross-Section	B	L	L1
PF-101	5.5x1.5	3	140	50
PF-102	5x2			
PF-103	Ø3			
PF-104	2.5x2.5			
PF-105	3.5			

5 PCS/SET

PF-10L Diamond Precision Files

Lengthened diamond part. Longer lifetime.

Grit size: **#150 #200 #400**

Unit: mm



Order No.	Cross-Section	B	L	L1
PF-101L	5.5x1.5	3	140	70
PF-102L	5x2			
PF-103L	Ø3.2			
PF-104L	2.5x2.5			
PF-105L	3.5			

5 PCS/SET

PF-20 Diamond Precision Files

For rougher grinding.

Grit size: **#150 #200 #400**

Unit: mm



Order No.	Cross-Section	B	L	L1
PF-201	8.5x1.6	4	200	70
PF-202	7.5x2.2			
PF-203	Ø 4			
PF-204	3.5x3.5			
PF-205	4.8			

5 PCS/SET

PF-30 Diamond Precision Files

Grit size: **#150 #200 #400**

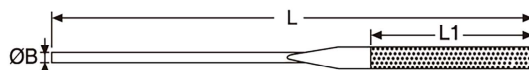
Unit: mm



Order No.	Cross-Section	B	L	L1
PF-301	7.5x1.5	3.4	180	60
PF-302	6x2			
PF-303	Ø 3.5			
PF-304	3.2x3.2			
PF-305	4			

5 PCS/SET

These series files are applied to the mould and all kinds of products, parts with specified shape requirements.



PF-70 Diamond Precision Files

Great for getting into narrow ribs and slots for deburring and finishing.



Grit size: **#150 #200 #400 #600**

Unit: mm

Order No.	Cross-Section	B	L	L1
PF-705	5.5x0.5	3	140	40
PF-708	5.5x0.8			50
PF-710	5.5x1.0			

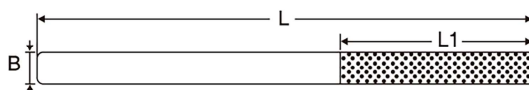
Single pack

Grit size: **#200 #400**

Unit: mm

Order No.	Cross-Section	B	L	L1
PFL-101	5.5x1.5	3	180	50
PFL-102	5x2			
PFL-103	Ø 3			
PFL-104	3x3			
PFL-105	3.5			
PFL-106	5.5x1			
PFL-705	5.5x0.5			40
PFL-708	5.5x0.8			50
PFL-03	Ø 2.5			
PFL-01	5.5x1.5			

10 PCS/SET



IF-50 Diamond Precision Files

Rough grinding for ironsmith.



Grit size: **#120 #200 #400**

Unit: mm

Order No.	Cross-Section	B	L	L1
IF-501	10x3.5	10.5x3.5	215	80
IF-502	10.5x3.5	10.5x3.5		
IF-503	Ø 5	5x5		
IF-504	6x6	5.7x5.7		
IF-505	8.4	10.5x3.5		

5 PCS/SET

IF-70 Diamond Precision Files

More convenient than IF-50.



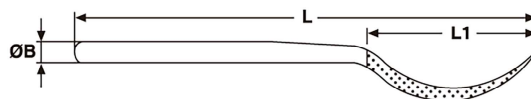
Grit size: **#120**

Unit: mm

Order No.	Cross-Section	B	L	L1
IF-701	9.5x2.5	9.2x2.3	200	70
IF-702	8.5x3	8.3x3		
IF-703	Ø 4.5	5x5		
IF-704	4x4	3.7x3.7		
IF-705	6.5	8x3		

5 PCS/SET

The bent files are suitable for different kinds of applications such as deburring and EDM-scale removal.



BF-60 Diamond Bent Files

Standard type

Grit size: **#150 #200 #400**

Unit: mm



Order No.	Cross-Section	B	L	L1
BF-601	5.5x1.5	3	140	30
BF-602	5x2			
BF-603	Ø 3			
BF-604	2.5x2.5			
BF-605	3			

5 PCS/SET

BF-90 Diamond Bent Files

Hand-held style. Various design for grinding of complicated moulds and products.

Grit size: **#150 #200 #400**

Unit: mm

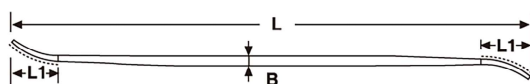


Order No.	Cross-Section	B	L	L1
BF-901	6x1.3	3	140	20
BF-902	2.5x2.5			
BF-903	3.5x1.5			
BF-904	3.5			
BF-905	5x2			
BF-906	3.5x1.5			
BF-907	3.5x2.4			
BF-908	Ø 3			
BF-909	5x1.5			
BF-910	Ø 2.5			

10 PCS/SET

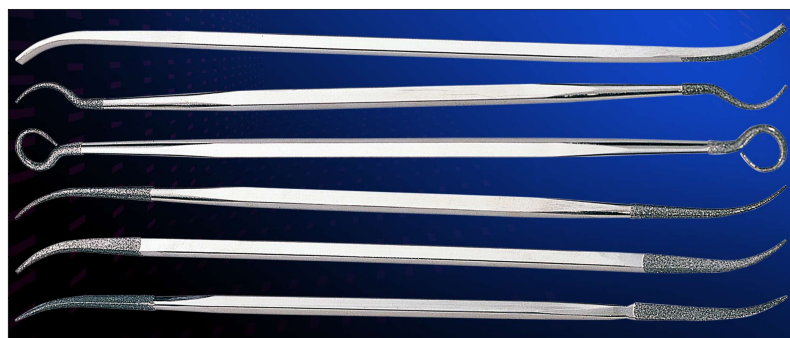
BF-80 Diamond Bent Files

Diamond files with square shank.



Grit size: **#150 #200**

Unit: mm



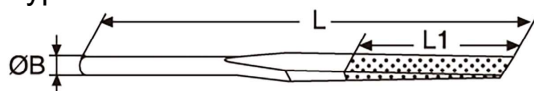
Order No.	Cross-Section	B	L	L1
BF-801	3.2x2.1	3x3	155	20
BF-802	Ø 2			20
BF-803	Ø 2.5			15
BF-804	Ø 3			30
BF-805	3x3			25
BF-806	3			30

6 PCS/SET

Machine files are fit in with pneumatic, electric or ultrasonic lapping machine for different kinds of applications such as deburring and EDM-scale removal.

MPF-10 Diamond Machine Files

Standard type.



Grit size: **#150**

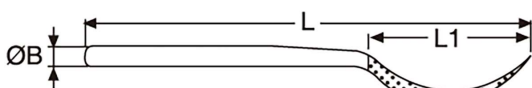
Unit: mm

Order No.	Cross-Section	B	L	L1
MPF-101	4x1.2	3	90	45
MPF-102	5x1.8			
MPF-103	Ø 3			
MPF-104	2.5x2.5			
MPF-109	5x2			

5 PCS/SET

MBF-60 Diamond Machine Files

Bent type.



Grit size: **#150**

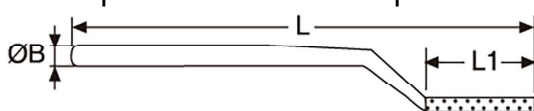
Unit: mm

Order No.	Cross-Section	B	L	L1
MBF-601	5.5x1.2	3	85	30
MBF-602	5x2			
MBF-603	Ø 2.5			
MBF-604	2.5x2.5			

4 PCS/SET

MBF-90 Diamond Machine Files

Applied for complicated moulds and parts.



Grit size: **#150**

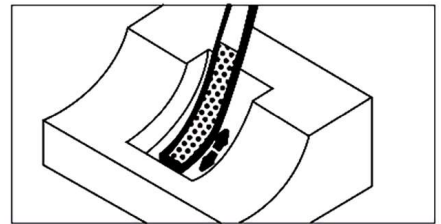
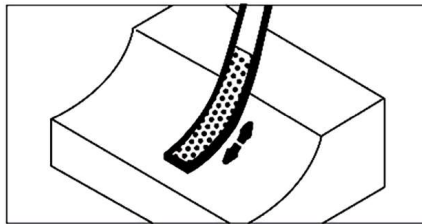
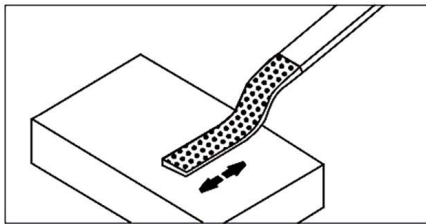
Unit: mm

Order No.	Cross-Section	B	L	L1
MBF-901	5.8x1.2	3	65	20
MBF-902	3.2x1.4		65	20
MBF-903	5x2		68	20
MBF-904	3.2x1.4		65	22
MBF-905	Ø3		65	20
MBF-906	Ø3		67	30
MBF-907	3.5x2		67	25
MBF-908	3.2x1.4		65	25
MBF-909	3.1x1.4		65	25
MBF-910	3.5x2.5		67	20

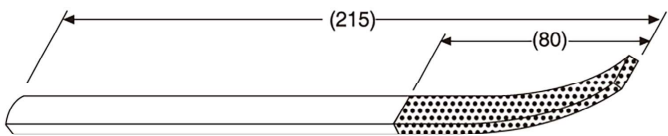
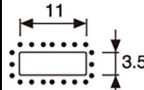
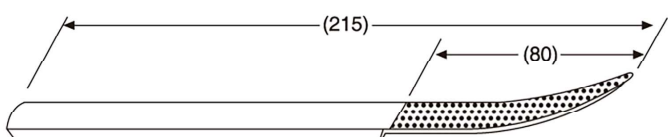
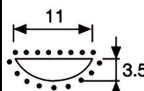
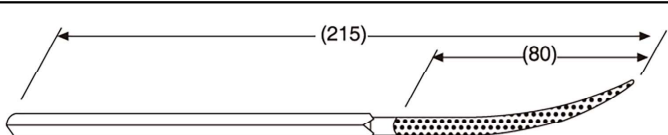

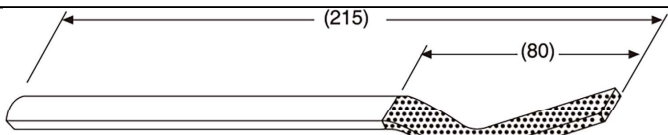
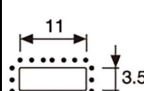
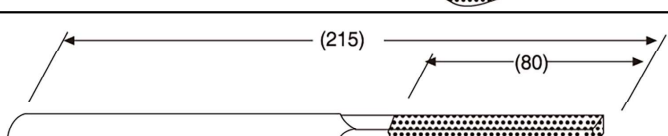

10 PCS/SET

Feature

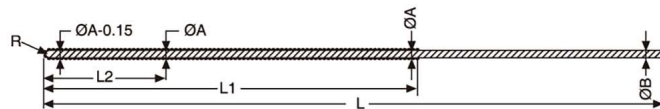
Bending type of IF-50 series. Suitable for corners, arcs and slots.



Unit: mm

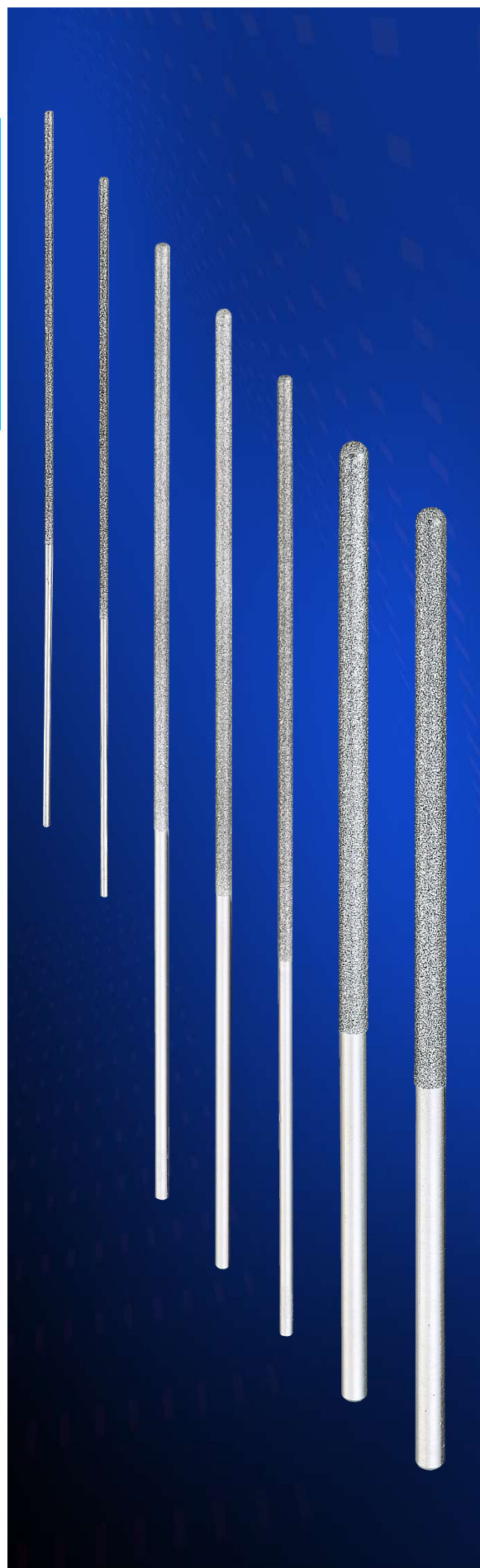
	Cross-Section	Grit size	Order No.
		#100	HF-01
			HF-02
			HF-03
			HF-04
			HF-05

Application
Boring of dies.



Unit: mm

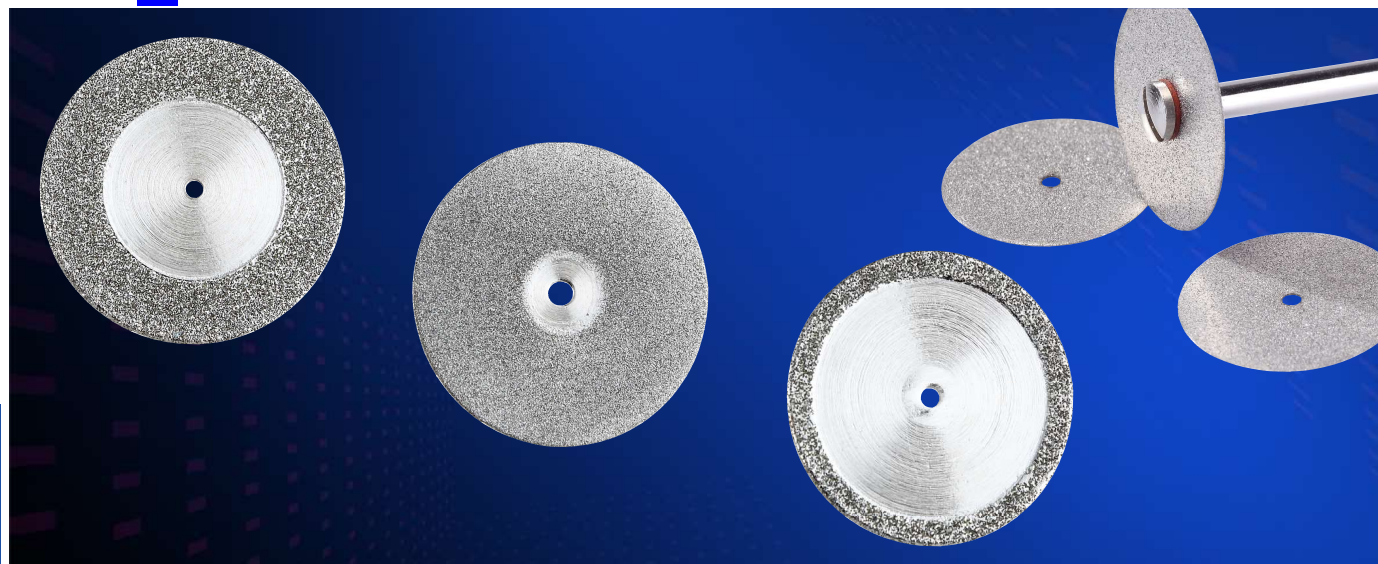
Order No.	O.D Ø A	Shank Ø B	Tip radius R	Taper length L2	Plated length L1	Total length L	Grit size
IBF10	1.0	0.7	0.4	30	90	150	#150
IBF11	1.1	0.8	0.45				
IBF12	1.2	0.9	0.5				
IBF13	1.3	1.0	0.55				
IBF14	1.4	1.1	0.6				
IBF15	1.5	1.2	0.65				
IBF16	1.6	1.3	0.7				
IBF17	1.7	1.4	0.75				
IBF18	1.8	1.5	0.8				
IBF19	1.9	1.6	0.85				
IBF20	2.0	1.7	0.9				
IBF21	2.1	1.8	0.95				
IBF22	2.2	1.9	1.0	50	120	200	#150
IBF23	2.3	2.0	1.05				
IBF24	2.4	2.1	1.1				
IBF25	2.5	2.2	1.15				
IBF26	2.6	2.3	1.2				
IBF27	2.7	2.4	1.25				
IBF28	2.8	2.5	1.3				
IBF29	2.9	2.6	1.35				
IBF30	3.0	2.7	1.4				
IBF31	3.1	2.8	1.45				
IBF32	3.2	2.9	1.5				
IBF33	3.3	3.0	1.55				
IBF34	3.4	3.1	1.6				
IBF35	3.5	3.2	1.65				
IBF36	3.6	3.3	1.7				
IBF37	3.7	3.4	1.75				
IBF38	3.8	3.5	1.8				
IBF39	3.9	3.6	1.85				
IBF40	4.0	3.7	1.9				
IBF41	4.1	3.7	1.95	50	120	200	#100
IBF42	4.2	3.8	2.0				
IBF43	4.3	3.9	2.05				
IBF44	4.4	4.0	2.1				
IBF45	4.5	4.1	2.15				
IBF46	4.6	4.2	2.2				
IBF47	4.7	4.3	2.25				
IBF48	4.8	4.4	2.3				
IBF49	4.9	4.5	2.35				
IBF50	5.0	4.6	2.4				
IBF51	5.1	4.7	2.45				
IBF52	5.2	4.8	2.5				
IBF53	5.3	4.9	2.55				
IBF54	5.4	5.0	2.6				
IBF55	5.5	5.1	2.65				
IBF56	5.6	5.2	2.7				
IBF57	5.7	5.3	2.75				
IBF58	5.8	5.4	2.8				
IBF59	5.9	5.5	2.85				
IBF60	6.0	5.6	2.9				



Diamond Files
鑽石銼刀

DIAMOND MOUNTED POINTS

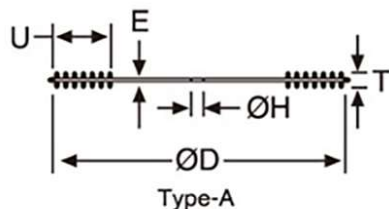




Applications: Cutting or carving of non-ferrous hard materials such as ceramic, glass and FRP.

Remark for spec

25 20 D F
 $\varnothing D$ E Type Grit size

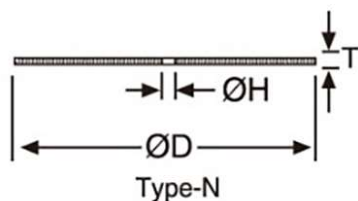


Type-A

$\varnothing H=1.6$

Unit: mm

Order No.	$\varnothing D$	U	E	T	Grit size
2215AV	22	6.5	0.15	0.3	#400
2220AF	22	6.5	0.2	0.4	#200
2220AJ	22	6.5	0.2	0.5	#150
2240AJ	22	6.5	0.4	0.7	#150
2520AF	25	8	0.2	0.4	#200
2520AJ	25	8	0.2	0.5	#150
2540AJ	25	8	0.4	0.7	#150
2540AR	25	8	0.4	0.8	#80

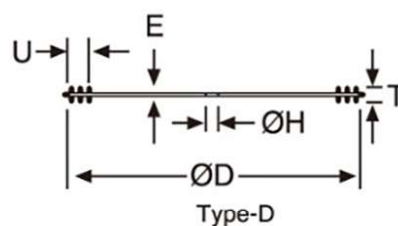


Type-N

$\varnothing H=1.6$

Unit: mm

Order No.	$\varnothing D$	T	Grit size
1930NF	19	0.3	#200
2230NF	22	0.3	#200
1920NV	19	0.2	#300
2220NV	22	0.2	#300

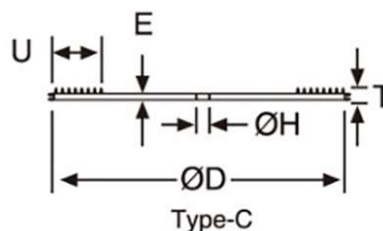


Type-D

U=2 $\varnothing H=1.6$

Unit: mm

Order No.	$\varnothing D$	E	T	Grit size
1620DF	16	0.2	0.4	#200
1920DF	19	0.2	0.4	#200
1920DJ	19	0.2	0.5	#150
2215DV	22	0.15	0.3	#400
2220DF	22	0.2	0.4	#200
2220DJ	22	0.2	0.5	#150
2520DF	25	0.2	0.4	#200
2520DJ	25	0.2	0.5	#150
2540DR	25	0.4	0.8	#80
3020DF	30	0.2	0.4	#200
3520DF	35	0.2	0.4	#200
4020DF	40	0.2	0.4	#200



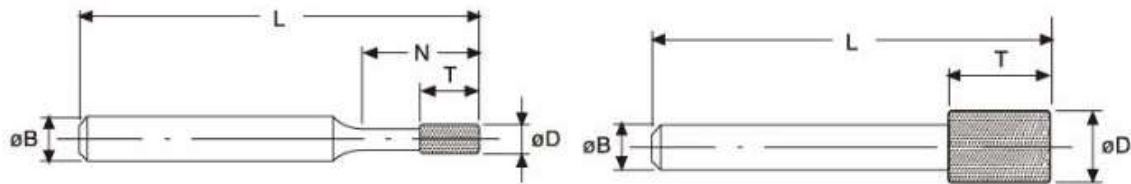
Type-C

$\varnothing H=1.6$

Unit: mm

Order No.	$\varnothing D$	U	E	T	Grit size
2220CF	22	6.5	0.2	0.4	#200

Some dimensions are make-to-order. Ask before making a purchase.

**Shank ØB: 3mm**

Unit: mm

Order No.		Ø D	T	N	L	Grit size
Diamond	CBN					
ID-3004	IB-3004	0.4	5	5	45	#600
ID-3005	IB-3005	0.5	5	5		#400
ID-3006	IB-3006	0.6	5	5		#200
ID-3007	IB-3007	0.7	6	6		#200
ID-3008	IB-3008	0.8	6	6		#200
ID-3009	IB-3009	0.9	6	6		#200
ID-3010	IB-3010	1	8	8		#200
ID-3015	IB-3015	1.5	5	8		#150
ID-3020	IB-3020	2	5	12		#150
ID-3025	IB-3025	2.5	5	15		#150
ID-3030	IB-3030	3	5	15		#150
ID-3040	IB-3040	4	5	-	50	#150
ID-3050	IB-3050	5	8	-		#150
ID-3060	IB-3060	6	8	-		#150

Shank ØB: 6mm

Unit: mm

Order No.		Ø D	T	N	L	Grit size
Diamond	CBN					
ID-6040	IB-6040	4	10	22	80	#100
ID-6050	IB-6050	5	10	22		
ID-6060	IB-6060	6	10	22		
ID-6070	IB-6070	7	10	-		
ID-6080	IB-6080	8	10	-		
ID-6090	IB-6090	9	10	-		
ID-6100	IB-6100	10	10	-		
ID-6120	IB-6120	12	10	-		
ID-6140	IB-6140	14	10	-		
ID-6160	IB-6160	16	10	-		
ID-6200	IB-6200	20	10	-		

CBN wheel will have a small groove on the shank.

Offer other specifications according to your drawing or sample.



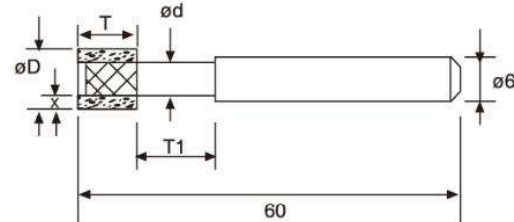
With Shank

Unit: mm

Order No.	D	T	X	d	T1	Bond	Grit Size
D8	8	10	1.5	4.5	15	Vitrified Resin	D150 B150
D10	10	10	2	6	-		
D12	12	10	3	6	-		

Concentricity $\leq 0.01\text{mm}$

CBN wheel will have a small groove on the shank.

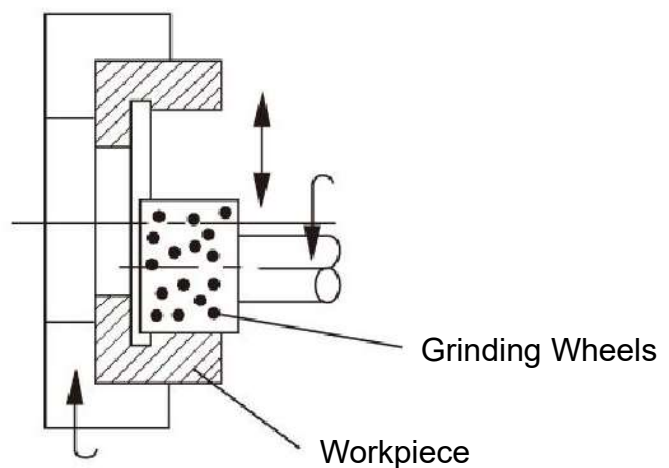
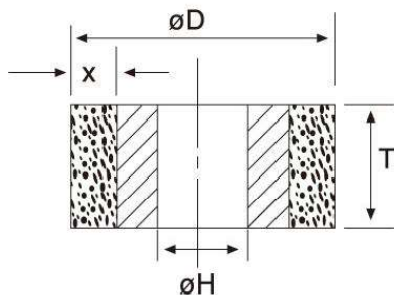
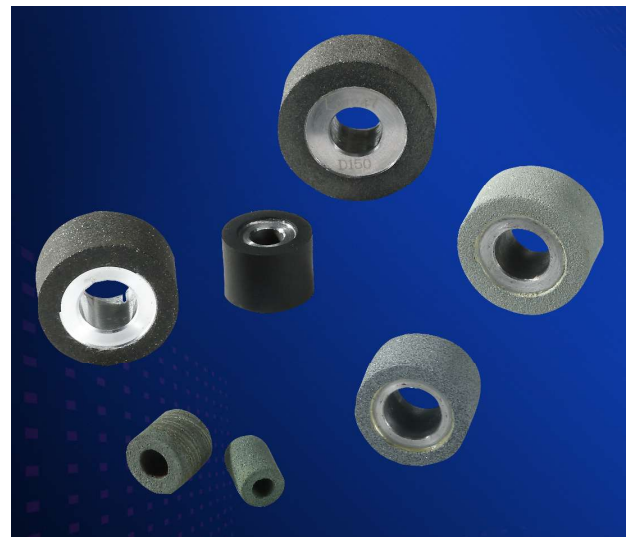


Replaceable Type

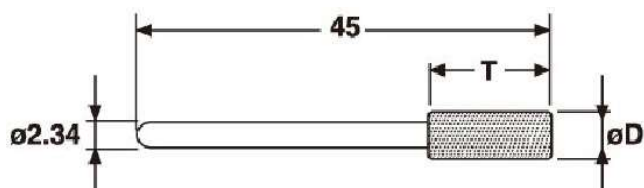
Unit: mm

Order No.	D	T	X	H	Bond	Grit Size
D16	16	12	2.5	6	Vitrified Resin	D150 B150
D20	20	12	2.5	10		
D25	25	12	4	10		
D30	30	12	5	10		

After clamping you will have to dress it until the concentricity is below 0.01mm.



Some dimensions are make-to-order. Ask before making a purchase. Offer other specifications according to your drawing or sample.



Unit: mm

Order no.	BH11A	BH14A	BH19A	BH24A	BH27A	BH32A	BH39A	BH49A	BH14R	BH24R
ØD	1.1	1.4	1.9	2.4	2.7	3.2	3.9	4.9	1.4	2.4
T	7	7	7	7	7	7	10	10	10	13

Order no.	BH20B	BH24B	BH30B	BH35B	BH39B	BH14C	BH19C	BH29C	BH39C	BH49C
ØD	2.0	2.4	3.0	3.5	3.9	1.4	1.9	2.9	3.9	4.9
T	-T	-	-	-	-	7	7	7	10	10

Order no.	BH18P	BH24P	BH29P	BH42P	BH14T	BH19T	BH26T	BH30S	BH30Y	BH17J
ØD	1.8	2.4	2.9	4.2	1.4	1.9	2.6	3.0	3.0	1.7
T	10	12	14	6	7	7	7	6	-	10

Grit size: ØD over 6.0mm: #100; Ø2.0~5.0mm: #120; Ø1.5mm & under: #150

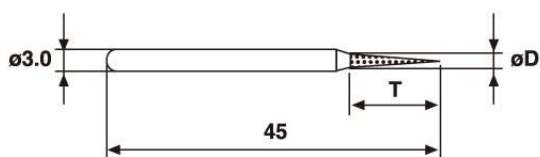
BHS-30: 30 PCS/SET, contains one each of above points.

BHS-300: 30 PCS/SET, contains two each as below.

11A, 14A, 19A, 24A, 27A, 14C, 19C, 18P, 24P, 20B, 24B, 14T, 19T, 26T, 17J(with ◆)
















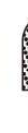

BHS-20: 20 PCS/SET, contains one each as below.


















11A, 14A, 19A, 24A, 27A, 32A, 20B, 24B, 35B, 14C, 19C, 18P, 24P, 42P, 14T, 19T, 26T, 30S, 30Y, 17J(with *)






































Unit: mm



















Diamond Mounted Points
鑽石磨棒



















																		
øD	ø1	ø1.5	ø2	ø2.5	ø3	ø3.5	ø4	ø5	ø6	ø1	ø1.5	ø2	ø2.5	ø3	ø3.5	ø4	ø5	ø6
T	8	8	8	8	10	10	10	10	10	8	8	8	8	10	10	10	10	10
NO.	10A	15A	20A	25A	30A	35A	40A	50A	60A	10C	15C	20C	25C	30C	35C	40C	50C	60C

																		
øD	ø2	ø3	ø3	ø1.2	ø1.5	ø1.5	ø2	ø3	ø3.3	ø3.3	ø2	ø3	ø4	ø5	ø6	ø2	ø3	ø3.3
T	10	10	10	16	13	10	12	14	15	10	12	15	15	15	13	10	10	15
NO.	20T	30T	30V	13R	14R	15R	20R	30R	31R	32R	20P	30P	40P	50P	60P	20F	30F	33F

																		
øD	ø4	ø5	ø6	ø6	ø2	ø3	ø4	ø5	ø5	ø6	ø1	ø1.5	ø2	ø2.5	ø3	ø4	ø5	ø6
T	10	10	12	10	6	14	9	10	13	13	-	-	-	-	-	-	-	-
NO.	40F	50F	60F	61F	20J	30J	40J	50J	51J	60J	10B	15B	20B	25B	30B	40B	50B	60B

																		
øD	ø8	ø3	ø4	ø5	ø5	ø6	ø6	ø2	ø3	ø3	ø3	ø3	ø3	ø3	ø3	ø4	ø5	ø6
T	-	5	7	9	12	10	12	4	6	5.5	6	6	6	6	5	8	10	12
NO.	80B	30Q	40Q	50Q	51Q	60Q	61Q	20S	30S	31S	32S	33S	34S	35S	36S	40S	50S	60S

																	
øD	ø13	ø13	ø13	ø13	ø13	ø13	ø13	ø13	ø13	ø13	ø13	ø10	ø12	ø13	ø13	ø13	ø13
T	1	1.5	2	2.5	3	3.5	4	4	2	2	1	4	2	2	1	4	2
NO.	1310U	1315U	1320U	1325U	1330U	1335U	1340U	100Y	120X	130X	1310E	100Y	120X	130X	1310E	100Y	120X

																	
øD	ø13	ø13	ø13	ø13	ø13	ø13	ø13	ø6	ø8	ø13	ø6	ø8	ø13	ø6	ø8	ø13	ø13
T	1.5	2	2.5	3	3.5	4	3.5	3.5	4.5	3.4	3.5	4.5	3.4	3.5	4.5	3.4	3.4
NO.	1315E	1320E	1325E	1330E	1335E	1340E	60W	80W	130W	60M	80M	130M	60W	80W	130W	60M	80M

Grit size: ØD over 6.0mm: #100; Ø2.0~5.0mm: #120; Ø1.5mm & under: #150



BMS-30: 30 PCS/SET

10A, 15A, 20A, 25A, 30A, 35A, 40A,
50A, 20B, 30B, 50B, 15C, 20C, 25C,
30C, 35C, 40C, 50C, 20P, 30P, 15R,
20R, 30R, 30S, 20F, 30F, 50F, 20T,
30T, 30V



BMS-20: 20 PCS/SET

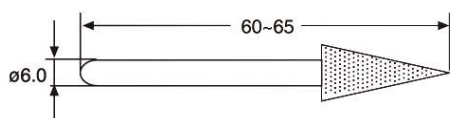
10A, 15A, 20A, 25A, 30A, 35A, 15C,
20C, 25C, 30C, 20P, 30P, 15R, 20R,
30R, 20B, 30B, 20F, 30F, 20T



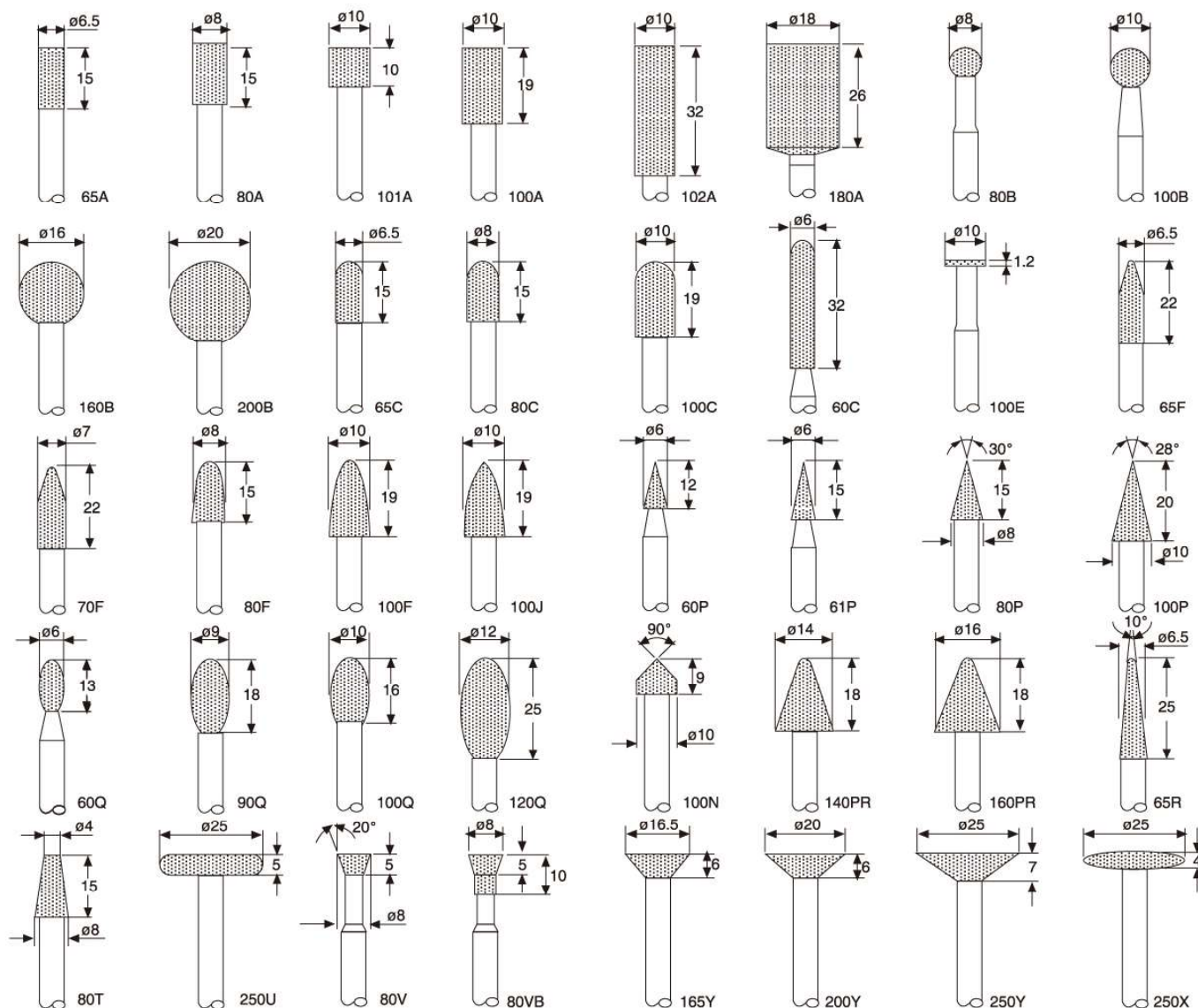
BMS-300: 30 PCS/SET

10A, 15A*2, 20A*2, 25A, 30A, 35A,
10C, 15C*2, 20C*2, 25C, 30C, 35C,
20B, 30B, 20P, 30P, 15R, 20R, 30R,
20F*2, 30F, 20T, 30T, 30V, 30S





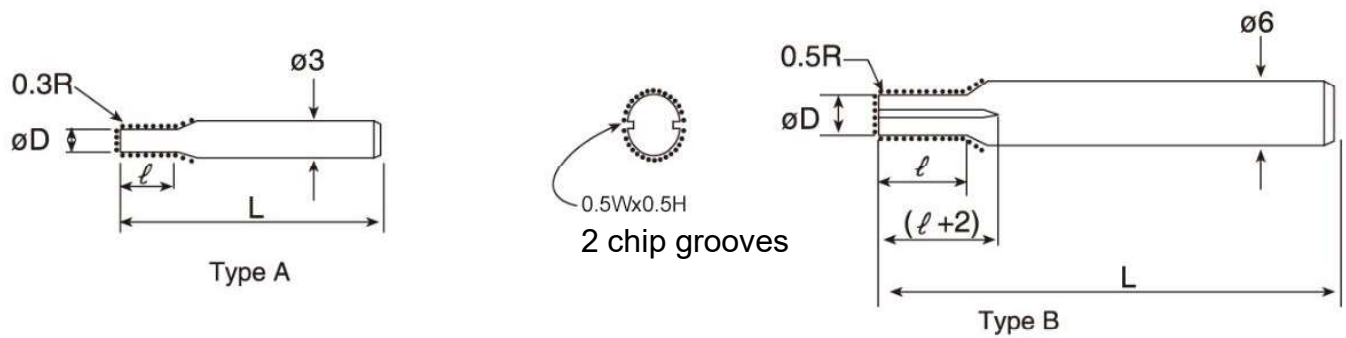
Unit: mm



Grit size: #40, #60, #100. Please specify when making a purchase.

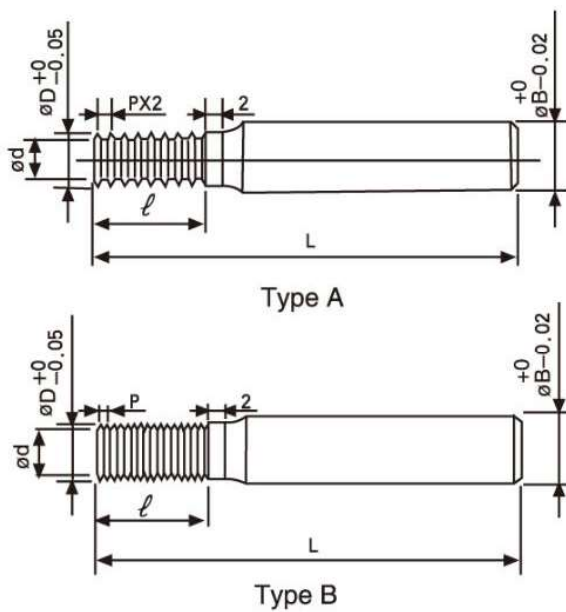


Application: Making standard hole before tapping, especially for ceramic, glass and sapphire etc.



Unit: mm

Order No.	ØD	ℓ	Type	ØB	L	Grit Size
M2	1.7	7	A	3	40	#150
M2.5	2.0	7	A	3	40	#150
M3	2.5	10	A	3	40	#150
M4	3.2	10	B	6	80	#100
M5	4.1	10	B	6	80	#100
M6	4.8	12	B	6	80	#100
M8	6.7	10	B	6	80	#100
M10	8.4	10	B	6	80	#100
M12	10.1	10	B	6	80	#100
M14	11.9	10	B	6	80	#100
M16	13.9	10	B	6	80	#100



Application:

Working with CNC machining center or CNC milling machine to make internal thread on high hardness material such as ceramic, glass and sapphire etc.

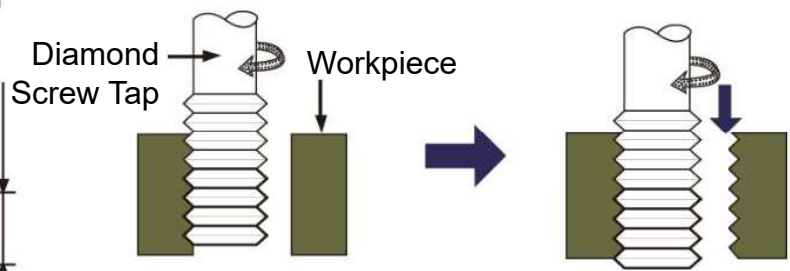


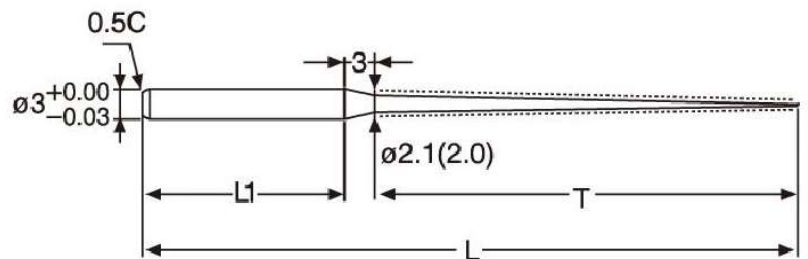
Image of working

Unit: mm

Order No.	O.D	I.D	Pitch	Teeth quantity	Teeth length	Type	Shank	Overall length	Grit Size
	Ø D	Ø d	P	N	ℓ		ØB	L	
M2	1.6	1	0.4	6	7	A	3	50	#400
M2.5	1.9	1.1	0.45	6	8	A	3	50	#400
M3	2.4	1.6	0.5	8	10	A	3	50	#400
M4	3.1	2	0.7	12	10	B	6	80	#200
M5	4.0	2.6	0.8	10	10	B	6	80	#200
M6	4.7	3	1	10	12	B	6	80	#200
M8	6.6	4.8	1.25	10	15	B	6	80	#200
M10	8.3	6	1.5	10	18	B	6	80	#200
M12	10.0	7.2	1.75	10	20	B	6	80	#200
M14	11.8	8.6	2	10	22	B	6	80	#200
M16	13.8	10.6	2	10	22	B	6	80	#200



Made of special hardened steel to meet the requirements of special moulds and parts which needs deeper grinding and finishing.



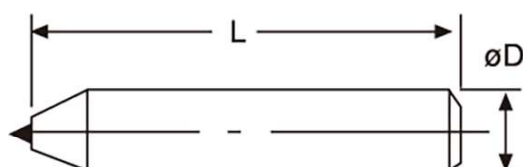
Unit: mm

Order No.	T	L	L1
20Px17T	17	50	30
20Px22T	22	50	25
20Px27T	27	50	20
20Px32T	32	65	30
20Px37T	37	65	25
20Px42T	42	65	20

- ◆ Concentricity: 0.005mm
- ◆ Hardness of shank: HRC 40-50

DIAMOND DRESSING TOOLS









Congo Cube Dressers

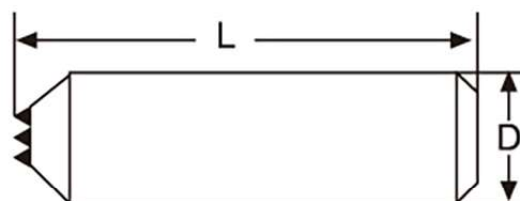
Common Diamond Size	0.25CT, 0.5CT
Common Specifications (mm)	Ø8x80L, Ø9.5x150L, Ø10x50L, Ø10x80L, Ø12x50L, Ø12x80L, Ø12x100L, Ø12.7x150L, Ø12.7x200L

Diamond Dressers

Common Diamond Size	#5, #10, #15, #20, #25, #33, #50
Common Specifications (mm)	Ø8x100L, Ø10x50L, Ø10x80L, Ø12x50L, Ø12x100L

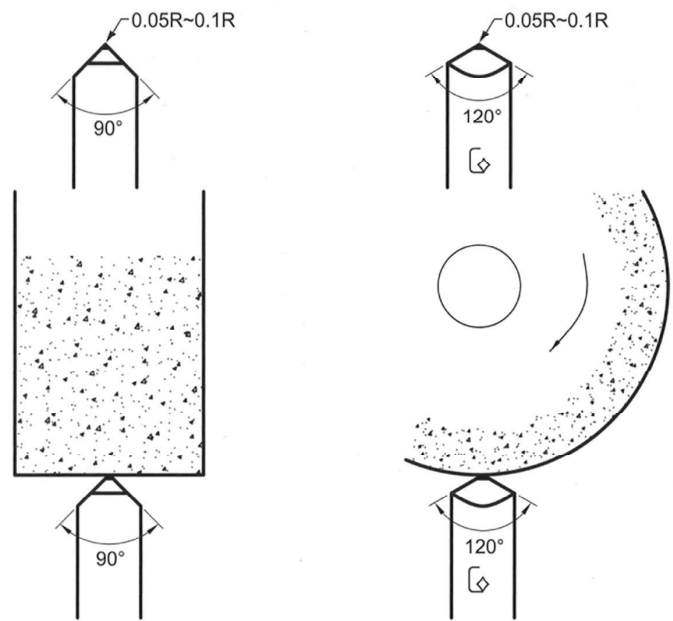
Multi Point Diamond Dressers

Diamond Quantity	Diamond Distribution	Shank (mm)
3		Ø12x100L
5		
6		
7		



Some dimensions are make-to-order. Ask before making a purchase. Offer other specifications according to your drawing or sample.

Wedge-Shaped Dressers



Not only lifetime, but also tip shape uniformity, wedge-shaped dresser is better than single point dresser #10 and #20.

Type of Dressers	Pyramid Dresser	Wedge-Shaped Dresser	Octahedral Dresser
Common Diamond Size	1/20	1/12, 1/7	1/12, 1/7
Common Specifications (mm)	Ø12x100L, Ø12x50L, Ø10x80L, Ø10x50L, Ø8x23L, Ø6x23L, Ø8x100L		

Replaceable Specification

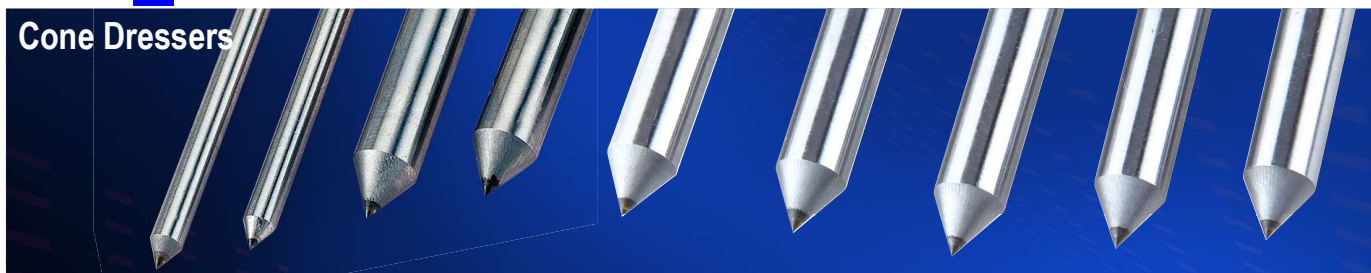
Dresser	Single-Point Dresser
1/20 Pyramid Dresser	#5 #10
1/12 Wedge-Shaped Dresser	#5 #10 #15
1/12 Octahedral Dresser	#5 #10 #15
1/7 Wedge-Shaped Dresser	#20 #25
1/7 Octahedral Dresser	#20 #25



Octahedral Dressers

Some dimensions are make-to-order. Ask before making a purchase. Offer other specifications according to your drawing or sample.

Cone Dressers



Application: dressing of ceramic wheels.

BD Cone Dressers

Diamond Size	d(mm)	V°	R(mm)
BD-30(1/50)	0.5-0.8	60° 90°	0.02-0.03
BD-40(1/40)	0.8-1.0		
BD-50(1/30)	1.0-1.3		
BD-60(1/20)	1.3-1.5		
BD-70(1/15)	1.5-1.8		

Common Specifications(mm)

Ø3.15x25L, Ø3.15x50L, Ø6.33x25L, Ø6.33x50L, Ø10x50L

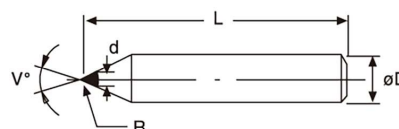
CD Cone Dressers

Diamond Size	d(mm)	V°	R(mm)
CD-40	1.0	60° 90°	0.01

Common Specifications(mm)

Ø3.15x25L, Ø3.15x50L, Ø6.33x50L

Note: Selected diamond, the tip of diamond is stronger than BD.



Pyramid Dressers



Because of its exactly ground pyramid diamond tip, this kind of dresser is able to make grinding wheels to be more aggressive. This feature is a key factor to make it possible for higher precision internal grinding. Compared with cone dressers, its impact toughness is raised by 30%.

◆ BD Pyramid Dressers

The BD type is made of high quality natural diamond, the average life is longer. It's better to use with manual grinding machine due to its larger fluctuation of tool life.

◆ CD Pyramid Dressers

CD type is specially designed for automatic or CNC machines. Its life time is rather stable due to its selected diamond material. This makes it easier to set a replacing frequency.

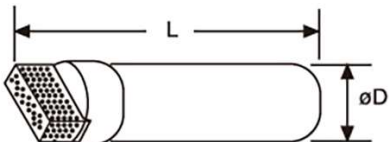
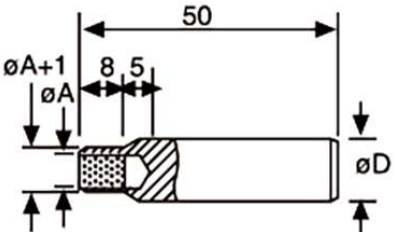
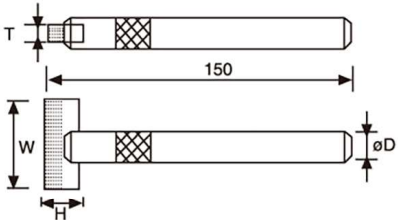
◆ Common Specifications(mm)

Ø 12x100L, Ø 12x50L, Ø 10x50L, Ø 8x50L, Ø 8x23L, Ø 6x23L

Some dimensions are make-to-order. Ask before making a purchase. Offer other specifications according to your drawing or sample.



Impregnated Diamond Dressers

Type of Dressers	Dresser Drawing	Dimension of Shank (mm)	Dimension of Segments (mm)	Grit Size
Cuboid Impregnated Diamond Dressers		Ø 12x100L Ø 10x80L	12.7Wx6.3Tx(8.5+5)H 10Wx4Tx(8.5+5)H 10Wx2.5Tx(8.5+5)H	R、M、F、F1 M F1
Cylinder Impregnated Diamond Dressers		Ø 12x50L Ø 10x50L	Ø 8x(8+5)H Ø 6x(8+5)H Ø 4x(8+5)H	R M、F1 F1
Handheld Impregnated Diamond Dressers		Ø 12x150L	20Wx6Tx(6+5)H	R、M

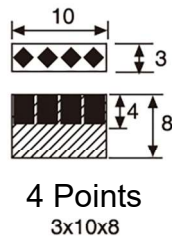
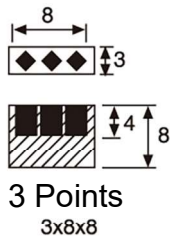
Reference for Selecting

Dresser Grit	Diamond Grit Size	Grinding Wheel Grit Size
R	#16/20+#20/30	#60 and coarser
M	#30/40	#80~#120
F	#40/50	#150 and finer
F1	#60/80	

Some dimensions are make-to-order. Ask before making a purchase. Offer other specifications according to your drawing or sample.



CDD Multipoint Segment
For CDD form dressers and
CDD blade dressers.



CDD Dresser Feature

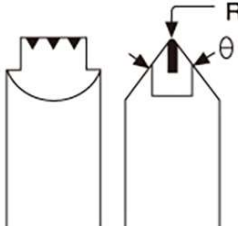
Synthetic polycrystalline diamond, which the size, hardness and directivity are same. The lifetime is steady and identical.

Applied on CNC grinding machine for automatic feed-in, with consistent and repeatable properties.

CDD Material Property

Polycrystalline CVD diamond, is chemically inert, has outstanding thermal conductivity, coupled with excellent wear and thermal oxidation resistance. This product has been specifically engineered to have a high resistance to abrasive wear in dressing applications. It is suitable for all dresser type-single point, multipoint and blade. Main spec.: CDDL400808 4.0*0.8*0.8mm

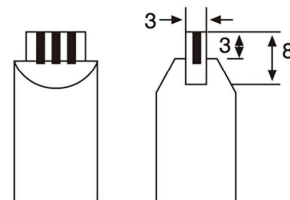
CDD Form Dressers

Standard Specification	55°x0.2R	80°x0.2R
	Applied on CNC grinder to dress the abrasive wheels to be a specified profile.	The dressing of abrasive wheels for getting a plane or inclined shape.

CDD Blade Dresser

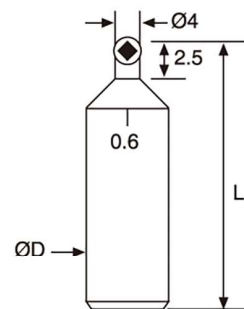
(three CDD sticks dressers)

The lifetime is three times of CDD single point dresser.



Some dimensions are make-to-order. Ask before making a purchase. Offer other specifications according to your drawing or sample.

CDD Single Point Dressers



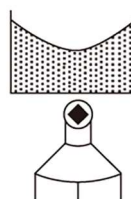
Specification	Dimension (mm)
CDD0.4	Ø12x100L
CDD0.6	Ø12x50L
CDD0.8	Ø10x80L
CDD1.0	Ø10x50L
CDD1.2	Ø10x50L

Recommendation of Dresser Selection

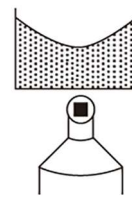
Considered Items	Diameter of Wheel (mm)	Dressed Width	Grit Size of Wheel
Abrasive wheels' parameter	(1) Ø100 and under (2) Ø125~Ø200 (3) Ø254~Ø350 (4) Ø400~Ø700	(1) 15mm and under (2) 20~40mm (3) 40~65mm (4) 65mm	(1) #100 and finer (2) #80~#60 (3) #46 and coarser
Example	Ø254x25T #100		
Relevant parameters	Ø254→(3)	25T→(2)	#100→(1)
Selected dressers	We recommend CDD 0.6 of single point #15 and #20 for your selection. Please refer to following table.		

Relevant parameters of abrasive wheels	Recommended Dresser	
	CDD single point dresser	Diamond single-point dresser
3,4	CDD 0.4	#5, #10
5,6	CDD 0.6	#15, #20
7,8	CDD 0.8	#25
9,10	CDD 1.0	#33
11	CDD 1.2	#50

Grinding Wheel



Grinding Wheel



The abrasive wheel on the left would be dressed sharper than the right one when you set the CDD dresser's corner as the left drawing.

Some dimensions are make-to-order. Ask before making a purchase. Offer other specifications according to your drawing or sample.



Comparison of the MONO Diamond & Natural Diamond Dressers

Comparative Items	MONO Chisel Type Dressers	Natural Diamond Chisel Type Dressers
Lifetime	Identical	Different
Size of Diamond	Pretty uniform	Diffcult to be uniform
Size of Product	Diamond tip in the center of shank	Diffculd to control
Stability of Quality	Diamond is combined firmly	Diamond my drop when dressing

Size of Diamond

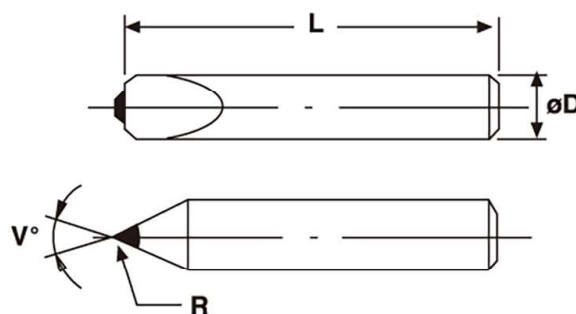
MONO Diamond 3.0x1.6x3.0

CDD 3.0x2.0x5.0

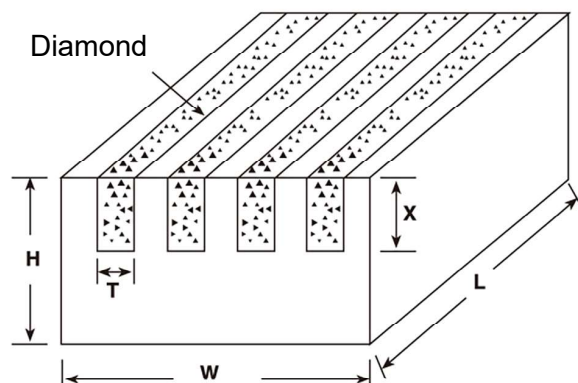
CDD 3.6x2.2x5.0

Common Specifications

Specification (mm)	R	V°
Ø12x100L	0.2	55°
Ø10x80L		
10x5x32L	0.5	



Some dimensions are make-to-order. Ask before making a purchase. Offer other specifications according to your drawing or sample.



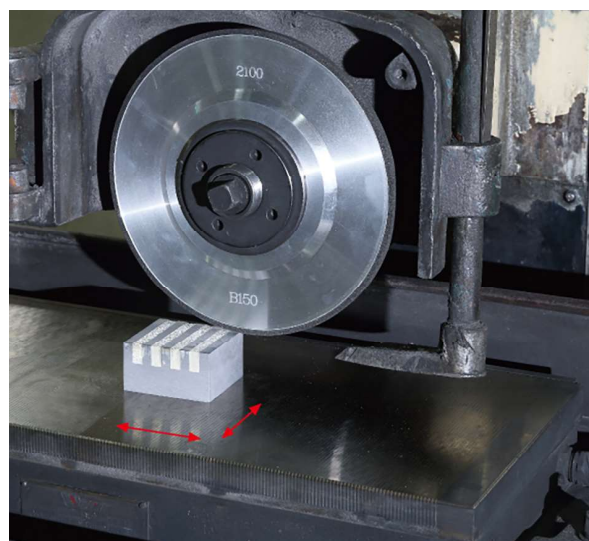
Standard Specification

Unit: mm

Overall Size	Diamond Part	Application Range
108Wx50Lx40H	12Tx15Xx50L	Ø200 plus V.W/R.W
54Wx50Lx30H	6Tx13Xx50L	Ø200 and smaller V.W/R.W

When working on grinding wheels, please note

- ◆ Supply plenty of coolant constantly.
- ◆ Feed rate shall not exceed indicated limit. For example 0.01mm.
- ◆ Replace wheels when the sharp edge of grinding wheels cutting surface is worn out.
- ◆ Replace the complete wheel if it is torn or damaged.
- ◆ Keep suitable linear speed, usually linear speed should be between 15~30m/sec.

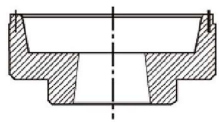
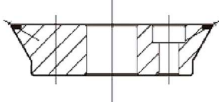
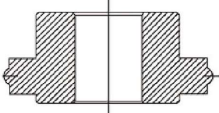

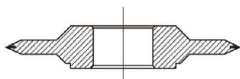
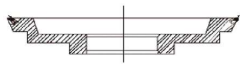




Features

- ◆ Brazing technology
- ◆ High class diamond and CDD
- ◆ High working precision
- ◆ Stable wearing rate



	Shape code	Dimension (mm)		Applications
	6A2Q	Ø40x18Tx2.5-3Wx15H(Taper)	CDD 0.4x0.4x4 0.6x0.6x4 0.8x0.8x4 1.0x1.0x4	Accurate dressing of big volume abrasive wheels.
	4V9B	Ø50.8x12.7Tx12.7Hx60°	CDD 1.2x1.5x2.5	On-site dressing for CNC forming machine grinding wheels.
	14J1	Ø80x35Tx14Ux25.4HxR	D25	High-accuracy dressing of abrasive wheels running on lead screw guide rail grinding machines.
	14J1Y	Ø100x23Tx18Ux52HxR	D25	
	14K1	Ø85x10Tx7Ux20Hx55°x0.1R Ø100x18Tx6Ux25.4Hx50°x0.1R Ø125x9Tx5Ux20Hx30°x0.15R	CDD 0.8x0.8x4 1.0x1.0x4 1.0x0.4x4	High-precision dressing of abrasive wheels working on worm grinders, gear grinders etc.
	15V9T	Ø100x21Tx40Hx70°x0.5R Ø130x21Tx40Hx70°x0.5R	CDD 1.2x1.2x4 1.5x1.5x4	

Some dimensions are make-to-order. Ask before making a purchase. Offer other specifications according to your drawing or sample.

DIAMOND/CBN GRINDING WHEELS



Choosing Diamond or CBN

★ Diamond

- Tungsten carbide, presintered carbide metal
- Tools & construction units
- Oxide ceramic materials
- Ferrite, ceramic magnetic materials
- Refractory products
- Stone, gem, semi-precious stone
- Glass, porcelain, quartz
- Graphite, carbon
- Tiles, asbestos, asphalt, concrete
- Plastics, FRP
- Wear resistant coatings

★ CBN

- High alloy steels(SK, SKS, SKH)
- High speed tools steels(HSS)
- Hot & cold working steels(SKD)
- Tempering steels
- Ball bearing steels
- Spring steels
- Cast iron
- Stainless steels(SUS)

Please indicate the following information when placing a new order.

1. Wheel specification. Including bond type, shape code(refer to the next 2 pages), dimension and grit size. It's better to provide the drawing specifications or a simple.
2. Workpiece material and hardness. It's very important information for deciding to use diamond or CBN.
3. Machining parameters such as spindle speed, feed rate, depth of cut and coolant type.
4. Quantity.
5. Other requirements such as required surface roughness and required accuracy tolerance.

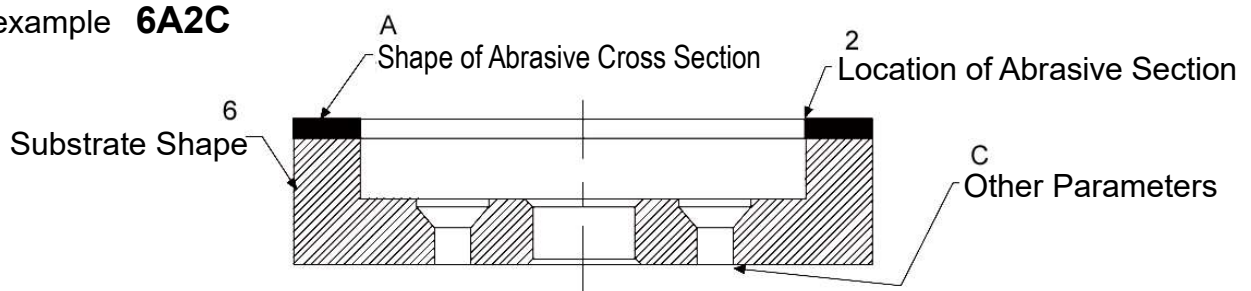
For repeated order, please provide the production number on the wheel or the label showed on the package.

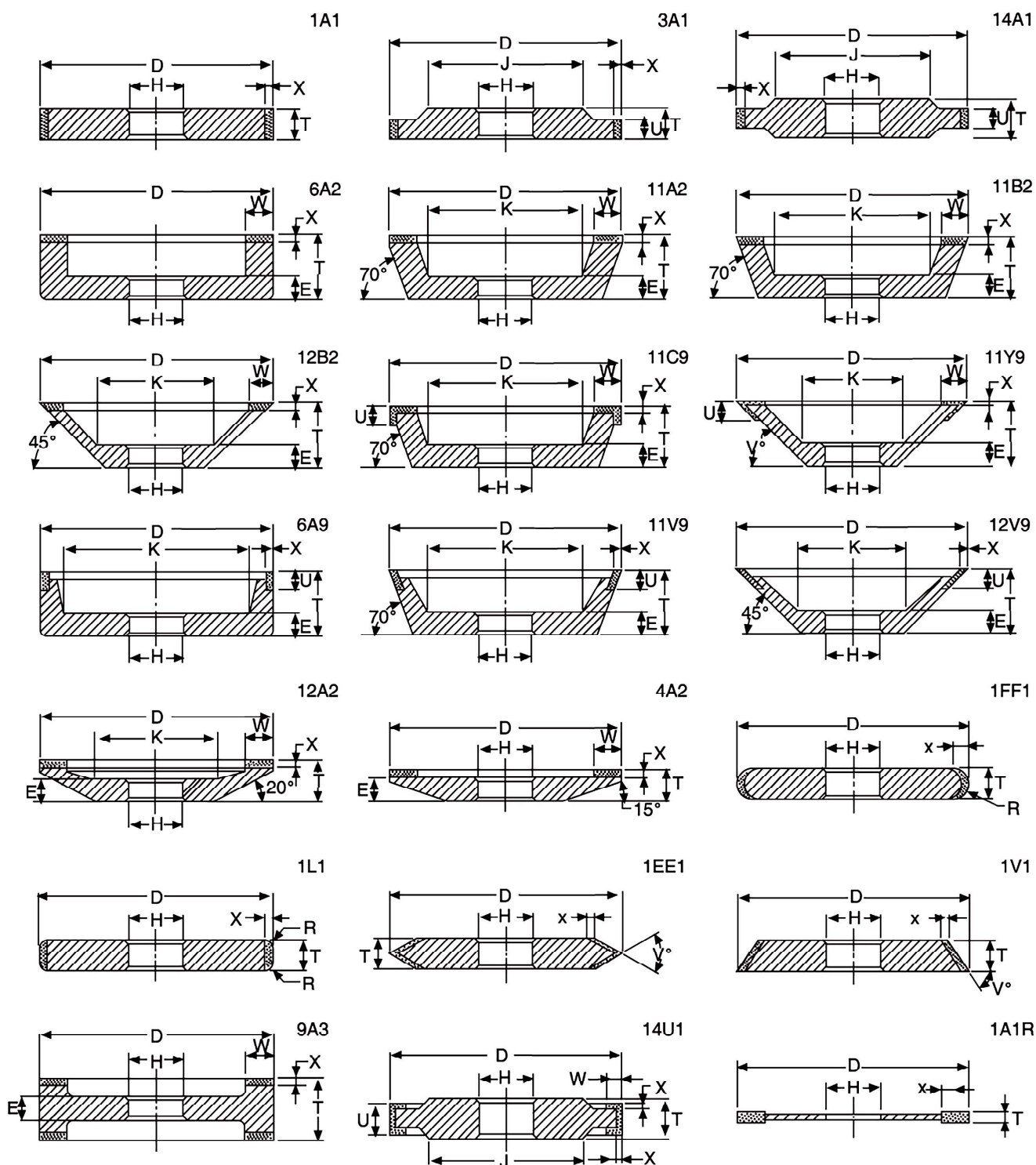
RW	-P	14A1	175D*8U*10T*5X*31.75H	D	150
Bond Type	Symbol of Buffer Layer	Shape Code	Dimension of Wheels	B: CBN D: Diamond	Grit Size

R.W Resin Bond Wheel
V.W Vitrified Bond Wheel
M.W Metal Bond Wheel
E.W Electroplated Wheel

Code standard(ISO)					
Substrate shape	Shape of abraive cross section	Shape of abraive cross section	Other parameters		
1	A	1	B		
	AH	Periphery	Drill & counterbore		
	B		C		
	C		Drill & countersunk		
2	CH		H		
	D	2	Plain hole		
	DD	Side	T		
	E		Screwed hole		
	EE		M		
	F		Holes plain & screwed hole		
6	FF	3	P		
	G	Both side	One side thinned		
	H		Q		
9	J	4	Working part inset		
	K	Inside bevel or arc	R		
	L	5	Both sides thinned		
	LL	Outside bevel or arc	S		
	M	6	Segmented abrasive section		
	P	Part of periphery	SS		
	Q		Segmented & slotted		
11	QQ	7	V		
	S	Part of side	Inverted		
	U	8			
	V	Throughout	W		
	Y	9	On the spindle		
		Ccorner	Y		
		10	Inserted & inverted		
		Center bore			

Code example **6A2C**





How to order a wheel?

1. For repeated order, please tell us the manufacturing number.
2. If you require us to design the wheels for you, please specify:
 - a. Materials, hardness of workpiece.
 - b. Type, horsepower, spindle speed of machine.
 - c. Grinding conditions and precision.
3. If you have your own design, please order as below:
 14A1,350D-10U-5X-25T-127H,B150,Wet grinding
 or provide drawing specifications

Resin bond diamond /CBN wheel as an important grinding method for tough materials had widely used to the process of Tungsten Carbide and hardened steel etc. We have developed several new-style resin bond diamond wheels which have been used successfully to high precision, high efficiency and low-cost processing of semiconductor materials.

Unit: mm

Applied on tool grinding machine, for grinding and form grinding of the carbide tools.

	D	W	X	H	Grit Size
11A2	100	10	3	20;19.05	D200;400;600

Applied on tool grinding machine, for grinding and form grinding of the carbide tools.

	D	W	X	U	H	Grit Size
11C9	100	8	1.5	5	20	D200;400;600

For tool grinding machine, or sharpen the carbide turning tools.

	D	W	X	V	H	Grit Size
12Y9C	125	8	1.5	45°;60°;90°	25	D200;400;600

Applied on surface grinding machine, to grind carbide (use diamond-D) and hardened steels (use CBN-B)

	D	T	X	H	Grit Size
1A1	152	10	3;5	31.75	D100;D200;B150
	175	10	3;5	31.75	D100;D200;B150

Applied on surface grinding machine, to grind carbide (use diamond-D) and hardened steels (use CBN-B)

	D	T	X	U	H	Grit Size
14A1	152	10	3;5	0.6-8	31.75	D100;D200;B150
	175	10	3;5	0.6-8	31.75	D100;D200;B150
	200	10	3;5	4;8	31.75	D100;D200;B150
	350	32	5	10;15	127	B150

Surface grinding of GaAs wafers.

	D	X	U	L	H	Grit Size
6A9	150	3	8	20	M12	D2000

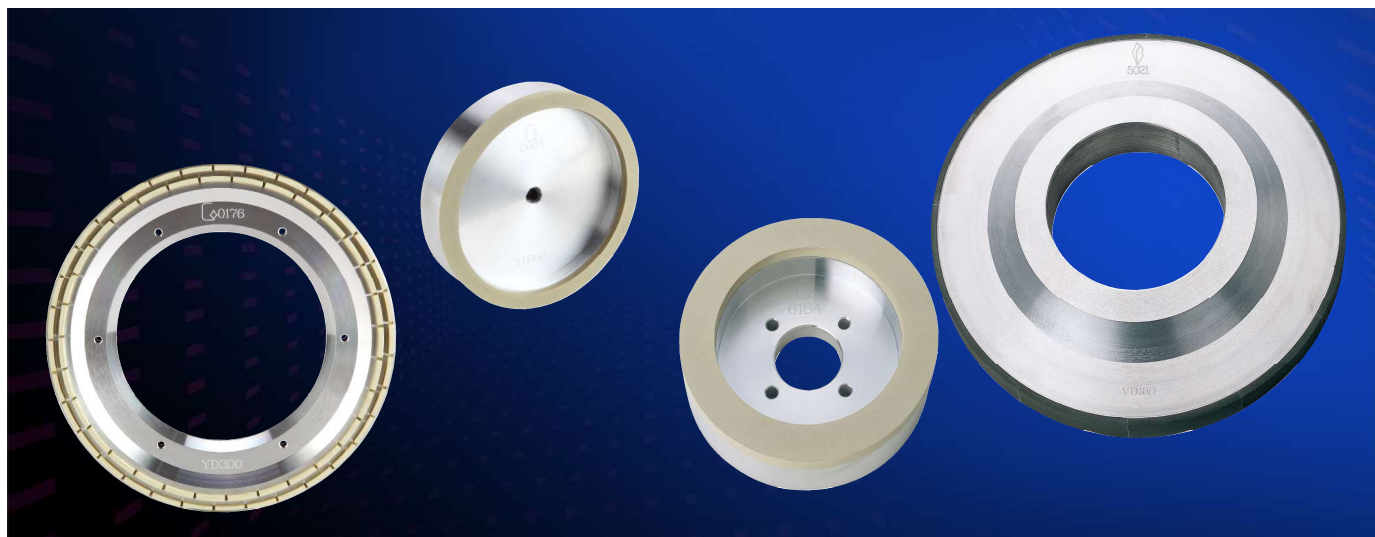
Cutting off tungsten carbide bars.

	D	T	X	H	Grit Size
1A1R	152	1	7	19.05;31.75	D120



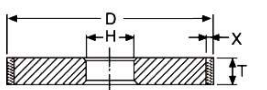
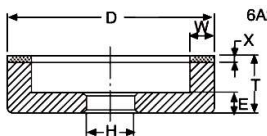
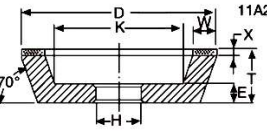
鑽石 CBN 砂輪
Diamond CBN Grinding Wheels

Some dimensions are make-to-order. Ask before making a purchase. Offer other specifications according to your drawing or sample.

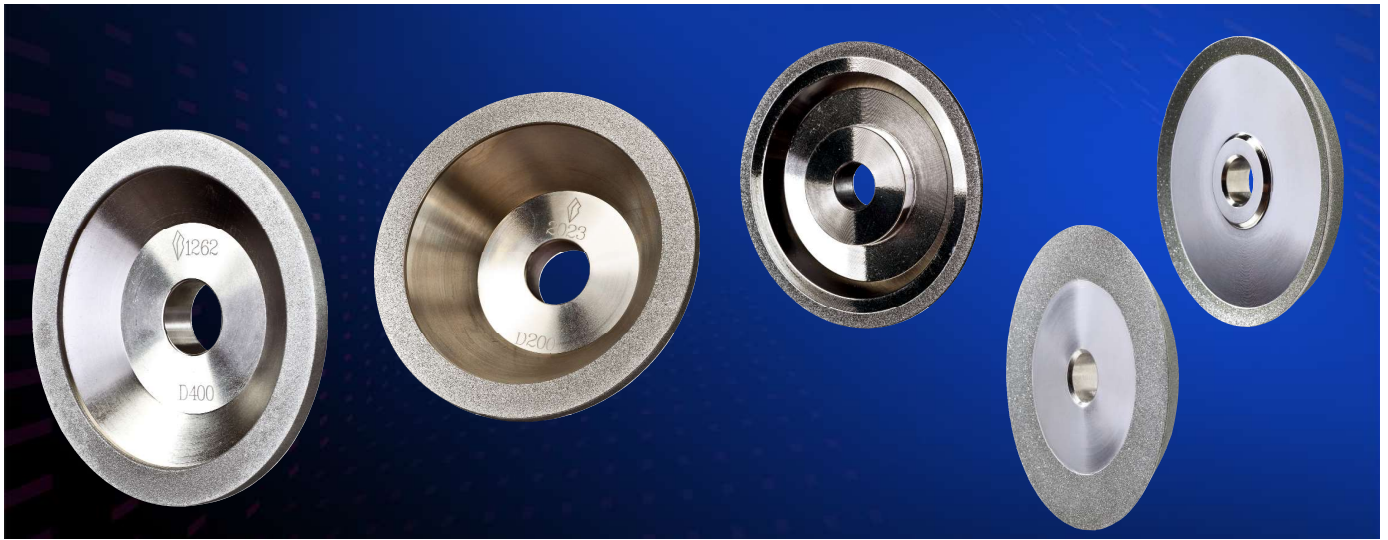


Resin bond diamond wheel and metal bond diamond wheel have played a very important role in the working of traditional materials (e.g. stone, TC, hardened steel, glass, etc.) with the rapid growth of semiconductor industry and the development of automatic processing, apparently they cannot meet all the demands of new technics and precision work to some new materials. CP DIAMOND is always keeping to developing vitrified bond diamond wheels which are used to the semiconductor industry and the motor industry. Now we have many kinds of products which have been successfully applied to many new materials and technics for various customers.

Unit: mm

	D	T	X	H	Grit Size	Application
 1A1	152	10	5	31.75	D150/B150	Split punch, precision machine parts, bearing to target coated by hard layer etc.
	175	10	5	31.75	D150/B150	
	300-600	15-40	5	127	B150	
	660	50	5-10	205	D300	Hard coated layer grinding of parts such as injection machine charging ram
	D	W	X	H	Grit Size	Application
 6A2	150	3-20	5-10	40	D200-1200	Diamond & PCD lathe tools
	150	3-10	5-10	M12*1.75	D300-3000	GaAs & sapphire
	254	4	8+1	155	D300-3000	Recycle of silicon wafers
	D	W	X	H/T	Grit Size	Application
 11A2	125	8	4	31.75/35	D300/600	PCD lathe tools

Some dimensions are make-to-order. Ask before making a purchase. Offer other specifications according to your drawing or sample.

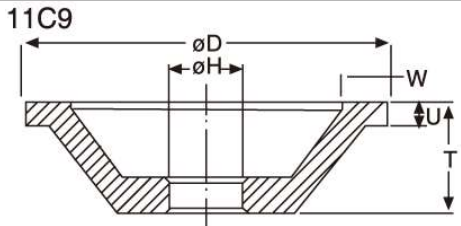


Note: when your workpiece is made of HSS or other hardened ferrous materials you should chose CBN wheels instead of diamond wheels.

11C9 Electroplated grinding wheel

Ideal for tungsten carbide tool's grinding, forming and resharping.

Unit: mm

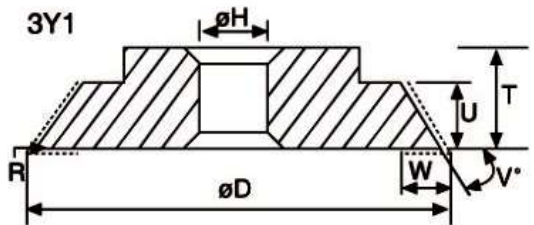
	Order No.	D	T	W	U	H	Grit Size
	E.W11C9	100	22 35	10	5	19.05	#100
						20	#150
						31.75	#200
							#300
							#400



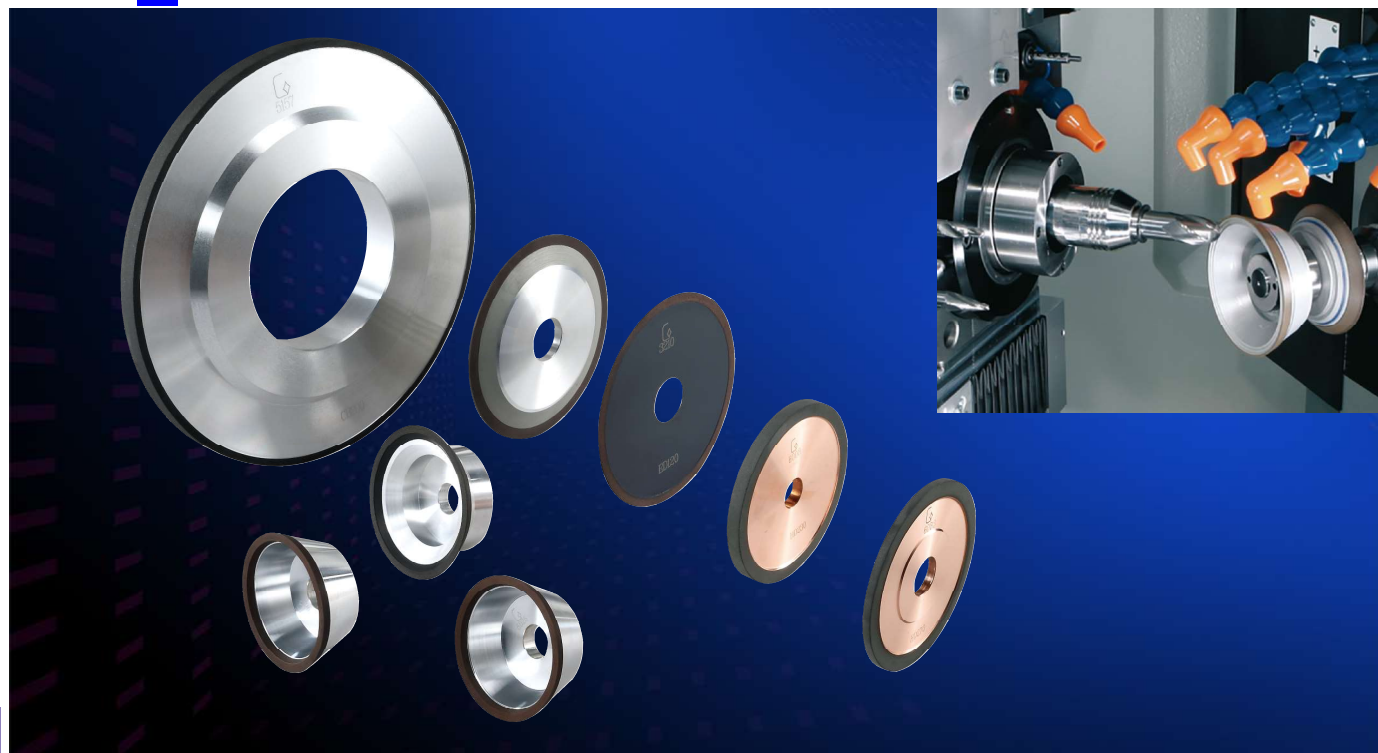
3Y1 Electroplated grinding wheel

Ideal for tungsten carbide saw blade cutter's grinding, forming and resharping.

Unit: mm

							
D	U	T	W	H	V°	R	Grit Size
150	4	9	5	25	45°	0.5	D150 ; D200
					40°	0.2	D150 ; D200

Some dimensions are make-to-order. Ask before making a purchase. Offer other specifications according to your drawing or sample.

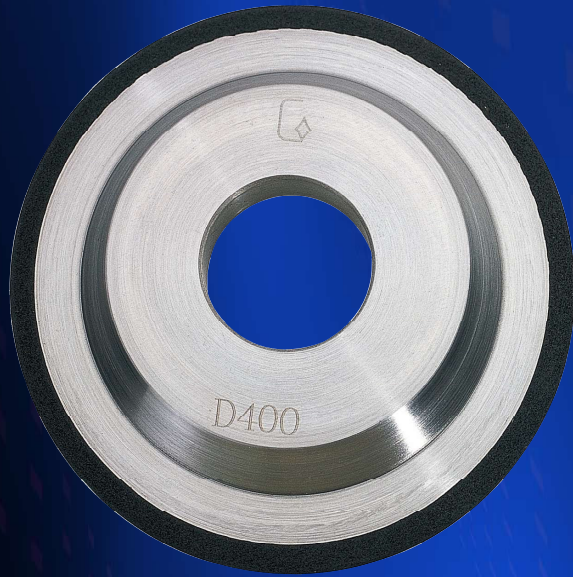


Diamond Wheels for End Mill and Drill Grinding

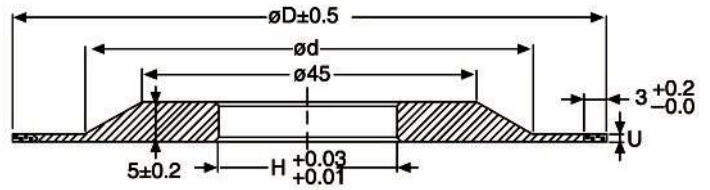
Unit: mm

Procedures	Shape Code	D	T	U/W	X	H	V°	Bond	Grit Size	Equipment/Note
Cut-off	1A1R	152	1		7	19.05		AD/ED	D120	Automatic cut-off machine
		125	1		5	25.4		AD/ED	D120	
Ends Work	14A1	350	32	15	5-10	127		D/CD	D150 D200	Surface grinder
O.D grinding	1A1	300-350	75-150		5-10	120		D/CD	D200 D400	Centerless grinder
Multi deck grinding	3A1	200-290	20	17	5	31.75 50.8		AD/HD	D200 D250	CNC grinder
PCB drill bit fluting	4A1Q-P	100	6	1.5	6	10		AD	D800 D1000	CNC cutting tool grinder “Hybrid” bond is specially made of thermostable resin which makes an excellent performance for end mill fluting
		152	8	2-3	10	31.75				
End mill fluting	1A1	100	5-18		5, 10	20 31.75 specified	10 15 20	Hybrid AD ED D	D200 D250 D300	
	1VA	125								
	1F1	150								
	14A1	75-150								
Primary relief secondary relief	11V9	75	20-40	3-10	3-5	20 31.75 specified	20 30 45	Hybrid AD ED	D200 D250 D300	
	11A2	100								
	12V9	125								
Gashing	1V1	75-150	6-12			20 specified	20 30 45	AD ED D	D200 D250 D300	
	11V2	75-125	20-40	5-10	3-5		70			
	11A2	75-125	20-40	5-10	3-5		90			

Some dimensions are make-to-order. Ask before making a purchase. Offer other specifications according to your drawing or sample.



Rough grinding wheels



Unit: mm

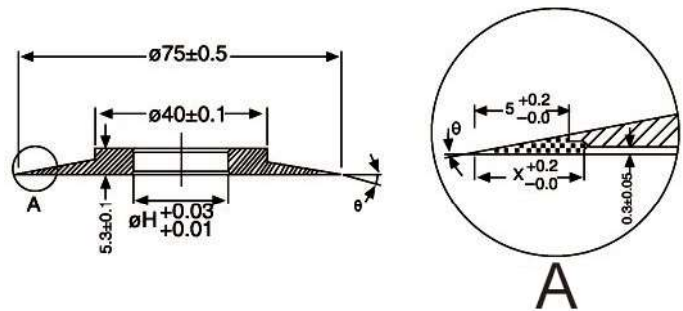
D	d	U	H	Bond	Grit Size
75	60	1.0	24.00 22.23	Resin	D200 D400
	60	0.7			
	63	0.5			
80	64	1.0	24.00 22.23	Resin	D200 D400
	64	0.7			
	68	0.5			

Application: Rough grinding on profile grinding machine.

Features:

- ◆ Sharp, higher grinding speed.
- ◆ Better self-sharpening ability, lower dressing frequency.
- ◆ Optimized technology prolongs lifetime by more than 30%

Precise grinding wheels



Unit: mm

D	H	θ	X	Bond	Grit Size
75	22.23 24.00	7°	7 10	Metal Resin	D400 D600 D800
		10°			
		12°			
		15°			

Application: Precise grinding on profile grinding machine

Features:

- ◆ fine grain, lower ground surface roughness
- ◆ high precision

Some dimensions are make-to-order. Ask before making a purchase. Offer other specifications according to your drawing or sample.

POLISHING TOOLS





Standard of micron powders

Order No.		Micron Range (μm)	Mesh Size (approx.)
10 Carat	50 Carat		
DR-1280	DR-5280	0.5(0-1)	#28000
DR-1140	DR-5140	1(0-2)	#14000
DR-1080	DR-5080	3(2-4)	#8000
DR-1050	DR-5050	4.5(3-6)	#5000
DR-1030	DR-5030	6(4-8)	#3000
DR-1018	DR-5018	9(6-12)	#1800
DR-1012	DR-5012	15(10-20)	#1200
DR-1008	DR-5008	25(20-30)	#800
DR-1006	DR-5006	35(30-40)	#600
DR-1004	DR-5004	50(40-60)	#400
DR-1002	DR-5002	90(80-100)	#200

Remark:

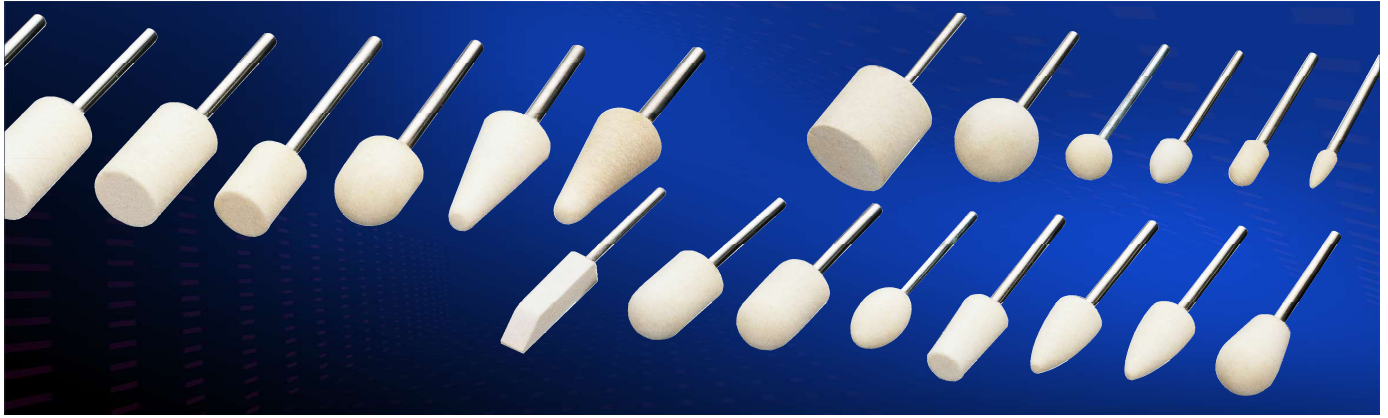
1. CPDIA micron powders are exactly graded from virgin material and specially designed for lapping and polishing operations. Particularly, for customers requiring the strictest dimensions accuracy and the finest surface quality.
2. For higher polishing surface quality requirements, we can also supply narrower distribution range diamond power.

Standard of diamond compounds

Order No.	Micron Range (μm)	Mesh Size (approx.)	Color Code
PDR-600	0.125(0-0.25)	#60000	Dark grey
PDR-280	0.5(0-1)	#28000	Grey
PDR-140	1(0-2)	#14000	White
PDR-080	3(2-4)	#8000	Yellow
PDR-050	4.5(3-6)	#5000	Light brown
PDR-030	6(4-8)	#3000	Orange
PDR-020	8(5-10)	#2000	Lilac
PDR-018	9(6-12)	#1800	Green
PDR-015	13(10-16)	#1500	Pink
PDR-012	15(10-20)	#1200	Blue
PDR-010	17.5(15-20)	#1000	Dark green
PDR-008	25(20-30)	#800	Brown
PDR-006	35(30-40)	#600	Red
PDR-004	50(40-60)	#400	Purple
PDR-002	90(80-100)	#200	Black

Remark:

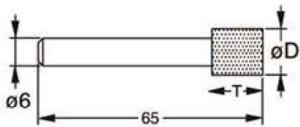
1. Oil soluble is standard carries.
2. Container: 5g with plastic syringes.

**Application:**







Polishing various moulds with diamond compounds and other polishing materials.

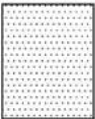
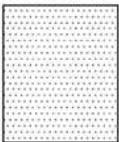
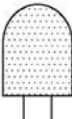

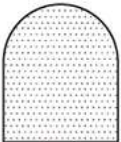
Features:

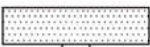


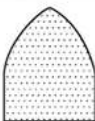
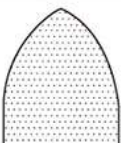
- ◆ Imported wool-board. There are no impurities to damage polishing surface.
- ◆ Precision forming technology ensures non-vibration sense during operation.



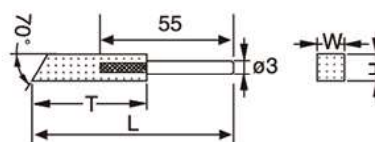
Unit: mm

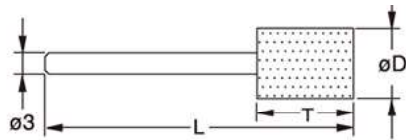
						
Order No.	FK-1014A	FK-1214A	FK-1520A	FK-2020A	FK-1225A	FK-1525A
øD	10	12	15	20	12	15
T	14	14	20	20	25	25

					
Order No.	FK-2025A	FK-2530A	FK-1520C	FK-2025C	FK-2530C
øD	20	25	15	20	25
T	25	30	20	25	30

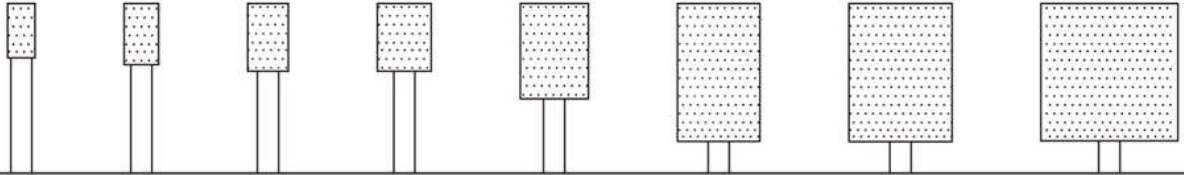
					
Order No.	FK-3208E	FK-4010E	FK-1520K	FK-2025K	FK-2530K
øD	32	40	15	20	25
T	8	10	20	25	30

Order No.	AB-R6	AB-R10	AB-R12
WxH	6x6	10x10	12x12
T	25	35	45
L	70	70	75

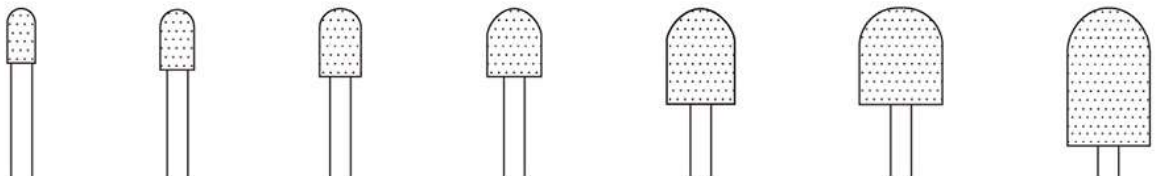




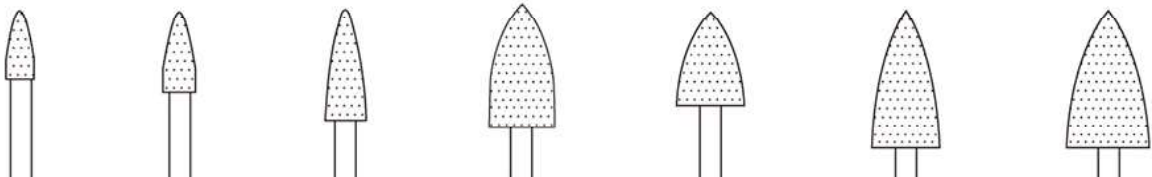
Unit: mm



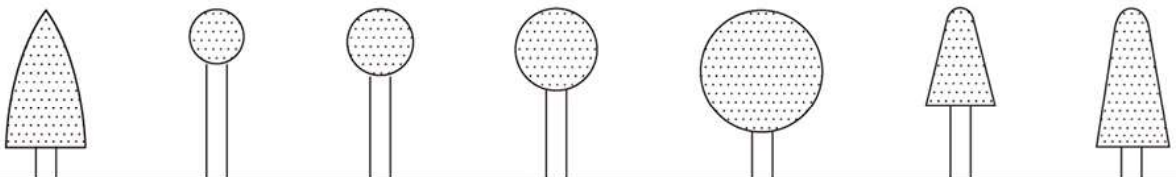
Order No.	AB-0408A	AB-0509A	AB-0610A	AB-0810A	AB-1014A	AB-1220A	AB-1520A	AB-2020A
øD	4	5	6	8	10	12	15	20
T	8	9	10	10	14	20	20	20



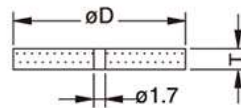
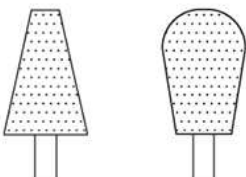
Order No.	AB-0408C	AB-0509C	AB-0610C	AB-0810C	AB-1014C	AB-1214C	AB-1220C
øD	4	5	6	8	10	12	12
T	8	9	10	10	14	14	20



Order No.	AB-0410J	AB-0512J	AB-0616J	AB-0817J	AB-1014J	AB-1020J	AB-1220J
øD	4	5	6	8	10	10	12
T	10	12	16	17	14	20	20



Order No.	AB-1225J	AB-08B	AB-10B	AB-12B	AB-18B	AB-1014R	AB-1225R
øD	12	8	10	12	18	10	12
T	25	-	-	-	-	14	25

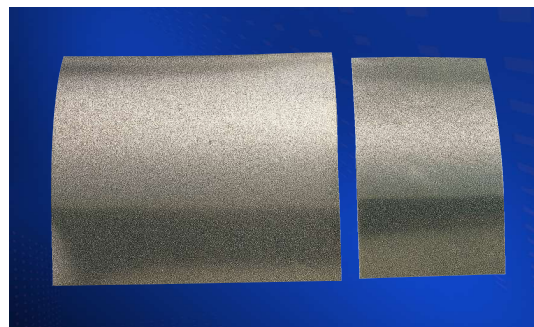


Order No.	AB-1218T	AB-1218H	2503E	2504E	2505E
øD	12	12	25	25	25
T	18	18	3	4	5

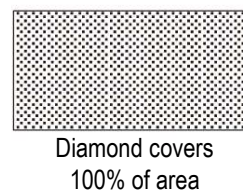
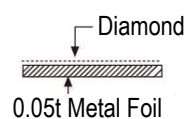
Diamond Foil

Flexible diamond coated metal foils with galvanic bonding. It can be easily cut to the required size and shape which makes them excellent for making tools adapted to special applications. Standard diamond foils with self-adhesive tape. Diamond foils without tape is also available please specify.

Dimension (mm)	Mesh Size
50Wx100L	#60 #100 #120 #150 #200 #400 #600 #800 #1200 #1800
100Wx100L	
200Wx200L	



Structure of
Diamond Foil



Diamond Cloth

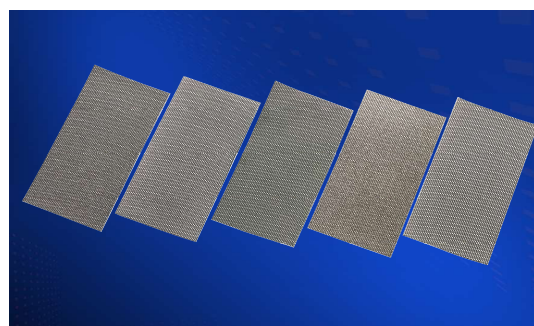
Bond: Electroplated Nickel

Application: it is flexible and can be easily cut to be the required size and shape which makes them excellent for making tools adapted to special applications.

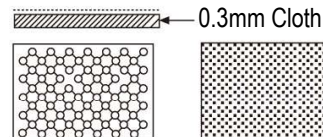
Feature:

- ◆ Soft, uneasily cracked.
- ◆ Sharp and better chip removal ability.
- ◆ Available to be stuck on different kinds of tools.

Dimension(mm)	Mesh Size
50Wx100L	#60 #100 #120 #150 #200 #400 #600 #800
100Wx100L	
200Wx300L	



Structure of
Diamond Cloth



Net or dot structure diamond covers 50% of area

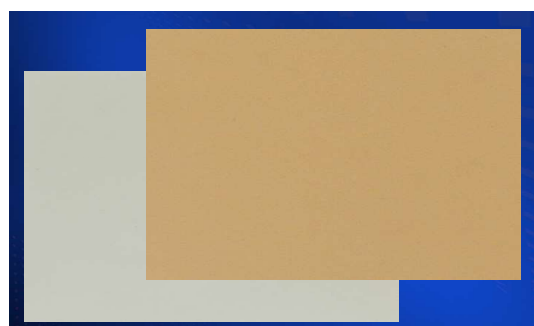
Diamond Film

Bond: Glue

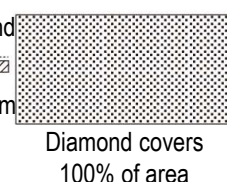
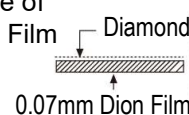
Application: Polishing for a variety of materials such as optical fiber connector. This can effectively eliminate the plastic mould cellulite phenomenon.

Features: So soft that it is easy to get a perfect polishing quality.

Dimension	200x300(mm)				
Mesh Size	#1800	#3000	#5000	#8000	#14000
Grit Size (μm)	6/12	4/8	3/6	2/4	0/2
Color	Green	Orange	Brown	Yellow	White



Structure of
Diamond Film



Diamond covers
100% of area

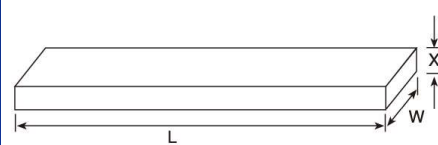
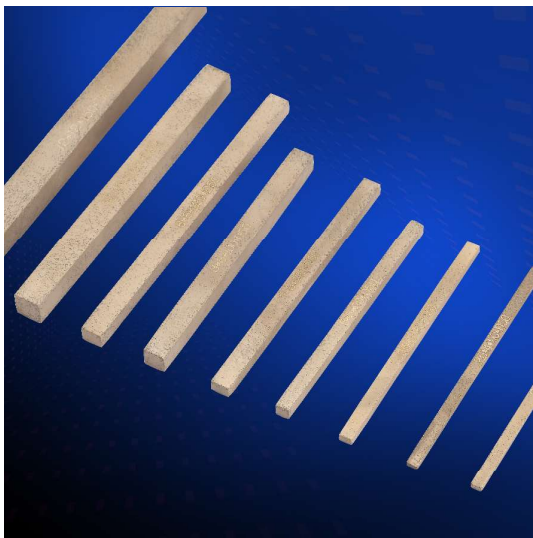
Diamond Hand Stones

Application: We offer a wide range of honing and lapping tools for all kinds of polishing and super finishing.



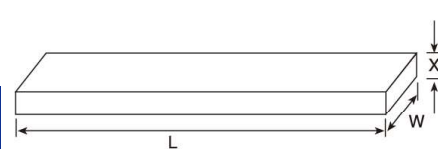
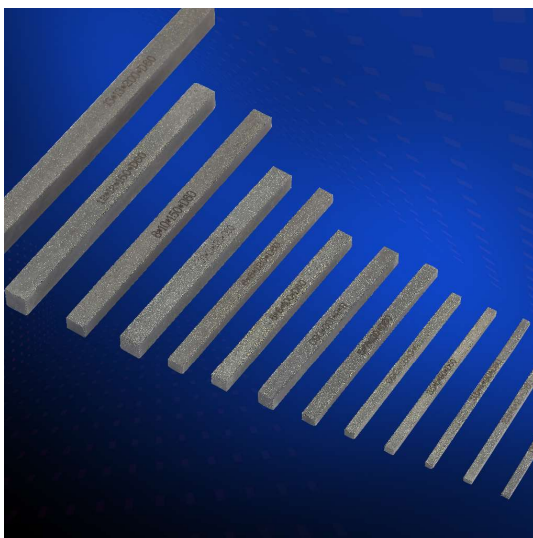
Order No.	Dimension WxXxL(mm)	Handle length (mm)	Description	Grit
RSH-01	10x2x40	160	Plastic handle	#200
RSH-02	5x2x40	150	Iron handle	#400
RSH-03	5x2.5Rx4x40			#600
				#800
				#1000
				#1200
				#1800
				#2000
				#3000
				#5000
				#8000

Metal Bond Oil Stones



Grit	Dimension WxXxL(mm)	
#50	4x2x90	8x6x120
#100	4x2.5x90	10x8x150
#150	5x3.5x90	10x10x120
#200	5x5x90	10x10x150
#400	7x5x100	12x12x150
#600	8x8x100	13x13x150

Resin Bond Oil Stones



Grit	Dimension WxXxL(mm)	
#100 #150 #200	10*3.2*120L	13x3.2x100L
#400 #600 #800	6*3.2*100L	4x4x100L
#1000 #1200 #1800	4x2x90	8x6x120
#2000 #3000 #5000	4x2.5x90	10x8x150
#8000	5x3.5x90	10x10x120
	5x5x90	10x10x150
	7x5x100	12x12x150
	8x8x100	13x13x150

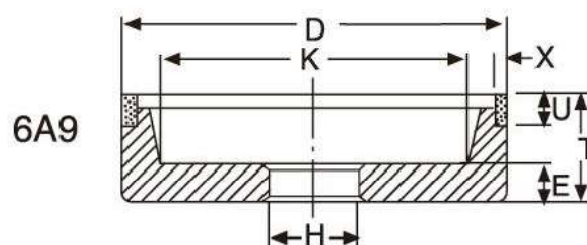
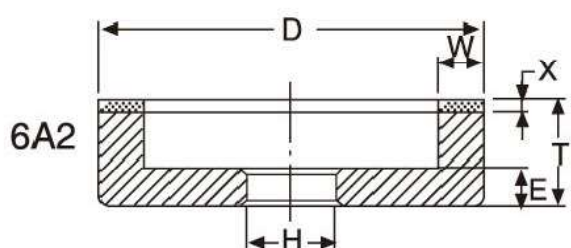
Application: Cutting tools reshaping, grinding of precision moulds and parts, internal holes honing.

Some dimensions are make-to-order. Ask before making a purchase.

WATER PROCESSING TOOLS



The common LED wafers are made of GaAs or sapphire crystal, the thinning process needs many diamond wheels. The ground surface of wafers should be smooth and have no any crack, the parallelism between two surfaces of wafers must be very high. We have developed many kinds of diamond wheels for grinding of LED wafers by the cooperation with our customers.

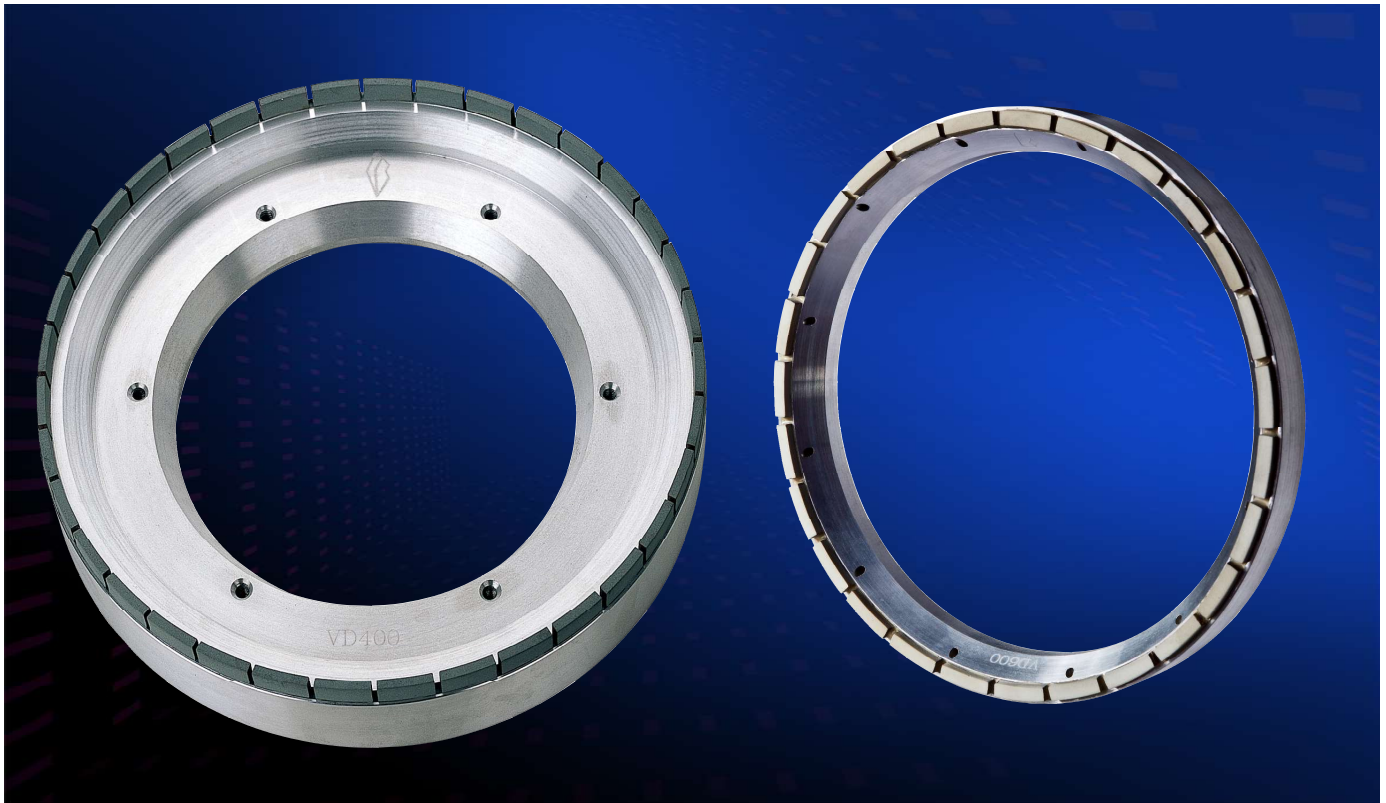


Bond	Shape	D(mm)	W(mm)	X(mm)	H(mm)	Grit	Application
Vitrified Metal	6A2	150	3-10	5-10	M12x1.75	D300-3000	Sapphire/GaAs
	6A9S	254	4	8+1	155	D300-3000	Recycling of wafers
	6A9S	254	3-4	10+2	155	D300-400	Sapphire

Surface grinding of GaAs wafers.

Bond	Shape	D(mm)	X(mm)	U(mm)	L(mm)	H(mm)	Grit
Resin	6A9	150	3	8	20	M12	D400-D2000

Some dimensions are make-to-order. Ask before making a purchase. Offer other specifications according to your drawing or sample.



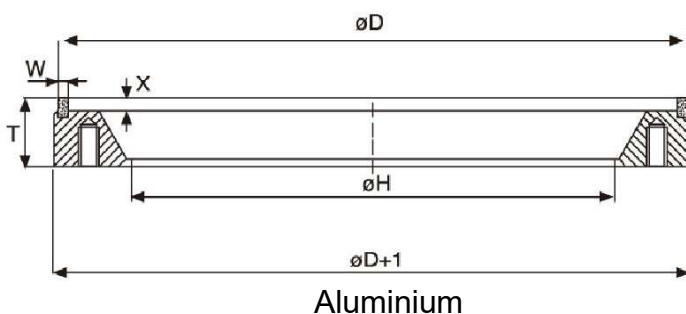
In IC packing process, the first step is back-grinding. After back-grinding wafers will be cut into small chops, then these chips will be packed to be ICs. It is rather vital to maintain a stable grinding rate and qualified surface. When wafers are ground to be thinner, to keep a good thickness uniformity is very important to get a higher packing yield.

Application:

Back grinding of silicon and compound semiconductor wafers.

Features:

- ◆ Specialized bond design and manufacturing technology guarantee the cutting rate stability.
- ◆ Excellent grinding wheels self-sharpen ability helps to reduce the risk of wafer breaking.
- ◆ Accurate graded diamond and strict production management enable customers to get a stable ground surface quality of water.



Grit	D(mm)	W(mm)	X(mm)	H(mm)
#325 (D54/80)	Ø200	2~5	5	155
	Ø400			158
#8000 (D2/4)				190
				235

Some dimensions are make-to-order. Ask before making a purchase. Offer other specifications according to your drawing or sample.

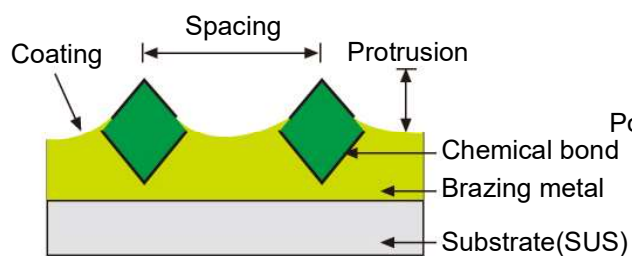


Application: The dressing of polishing pad for semiconductor wafers.

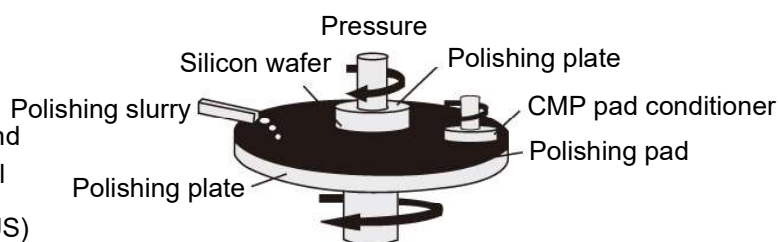
Features

- ◆ The single layer brazing technics grows the chemical bond between diamond and brazing metal to ensure that no diamond will be lost during working time.
- ◆ High emergence and uniformity of diamond particles achieve high polishing removal rate.
- ◆ Qualified working life.
- ◆ With good planeness.
- ◆ No break in process needed, shorten downtime.

Specification	O.D. mm	Width of Grit mm	Thickness mm	Distribution pcs/cm ²	Diamond Size	Coating
Ø108x6.6T	108	25	6.6	156±5	#60/70, 70/80	Ni
Ø50x8.3T	50	/	8.3	156±5	#60/70, 70/80	Ni
Ø20x7.3T	20	/	7.3	156±5	#60/70, 70/80	Ni

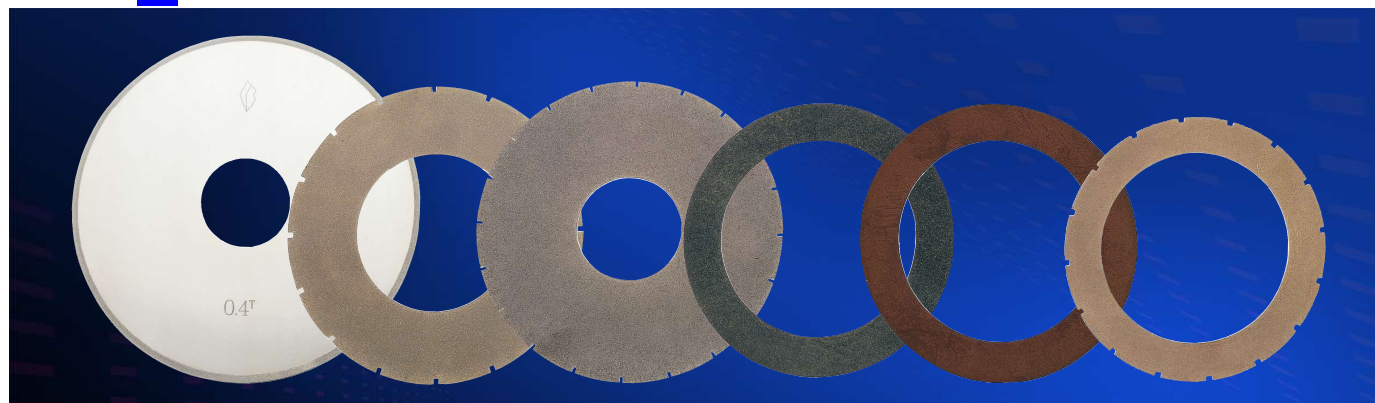


Brazing Illustration



Sketch of Working

Some dimensions are make-to-order. Ask before making a purchase. Offer other specifications according to your drawing or sample.



Applications

Silicon Wafers
Crystals
Semiconductor packages
Glass
Quartz

Sapphire
Printed circuit board
Ceramics

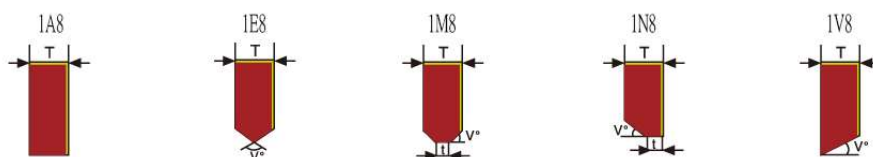
Features

High cutting precision
High working efficiency
Lower heat-affected area
Low blade wear
Smooth and regular kerf

Specifications

Bond	Shape Code	O.D. mm	I.D. mm	Thickness mm	Thickness Tolerance	Mesh Size	Grit Size μm
Resin Bond (RB)	1A8	$\varnothing 56$	$\varnothing 40$	0.10	± 0.003	D2000	5-10
	1E8	$\varnothing 75$	$\varnothing 25.4$	0.15	$\pm 0.005^*$	D1500	8-15
	1M8	$\varnothing 125$	$\varnothing 31.75$	0.20	± 0.01	D1200	10-20
Metal Bond (MB)	1N8			0.25		D800	20-30
	1V8			0.30		D600*	30-40
				0.35		D400*	36-54
Nickel Bond (NB)				0.40		D300	50-65
				0.45		D200*	65-85
				0.50		D170	75-97
						D150*	90-116
						D120	107-139

Shapes of edge



Ordering Instruction

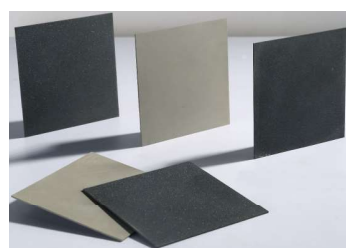
RB (no slot) is better for thin and brittle materials; MB (with 16-20 slots) is better for processing of thick and hard materials.

Please specify the O.D., I.D., thickness of blade and the size of diamond according to the condition of cutting when ordering. However, please ensure the thickness should be bigger than 3 times of diamond grit size.

The standard specifications have been shown in the table above.

* means which often be used for cutting process by our customers.

Example: RB 1A8 $\varnothing 56 \times 40 \text{H} \times 0.20 \text{T} \pm 0.005 \times \text{D} 400$



Dressing Board

CPdia prepared kinds of dressing board for your blades sharpening request.

Standard size:

75x75x1mm

80x80x1mm

Standard mesh:

#400, #600, #1200

Some dimensions are make-to-order. Ask before making a purchase. Offer other specifications according to your drawing or sample.

OTHER PROCESSING TOOLS



Application

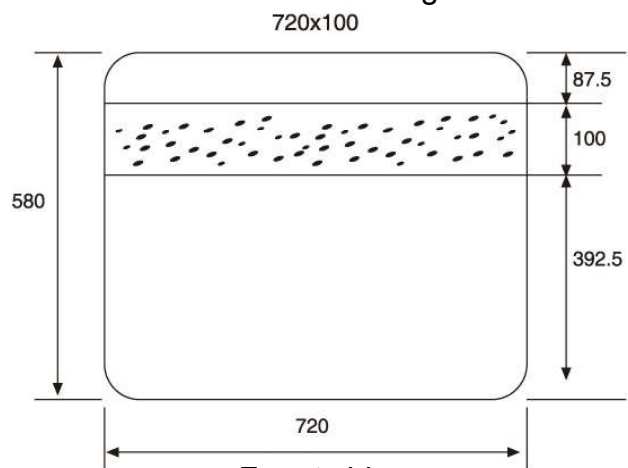
The dressing of PCB deburring wheels.

Grit size

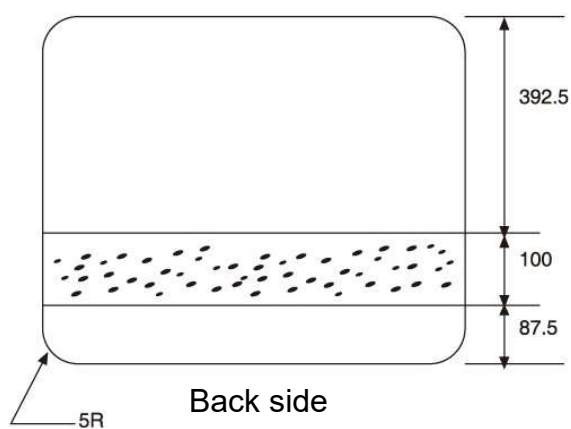
#80 is for dressing of top wheels (non-woven buff rolls)

#200 is for dressing of ceramic wheels

2 sides with the same grit size

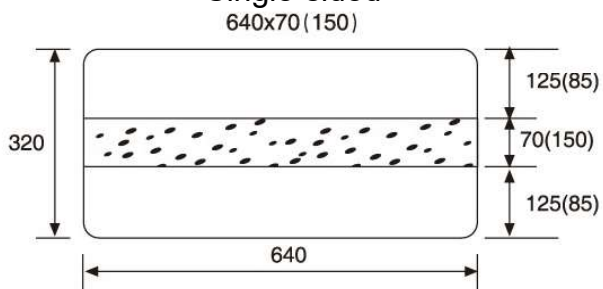


Front side

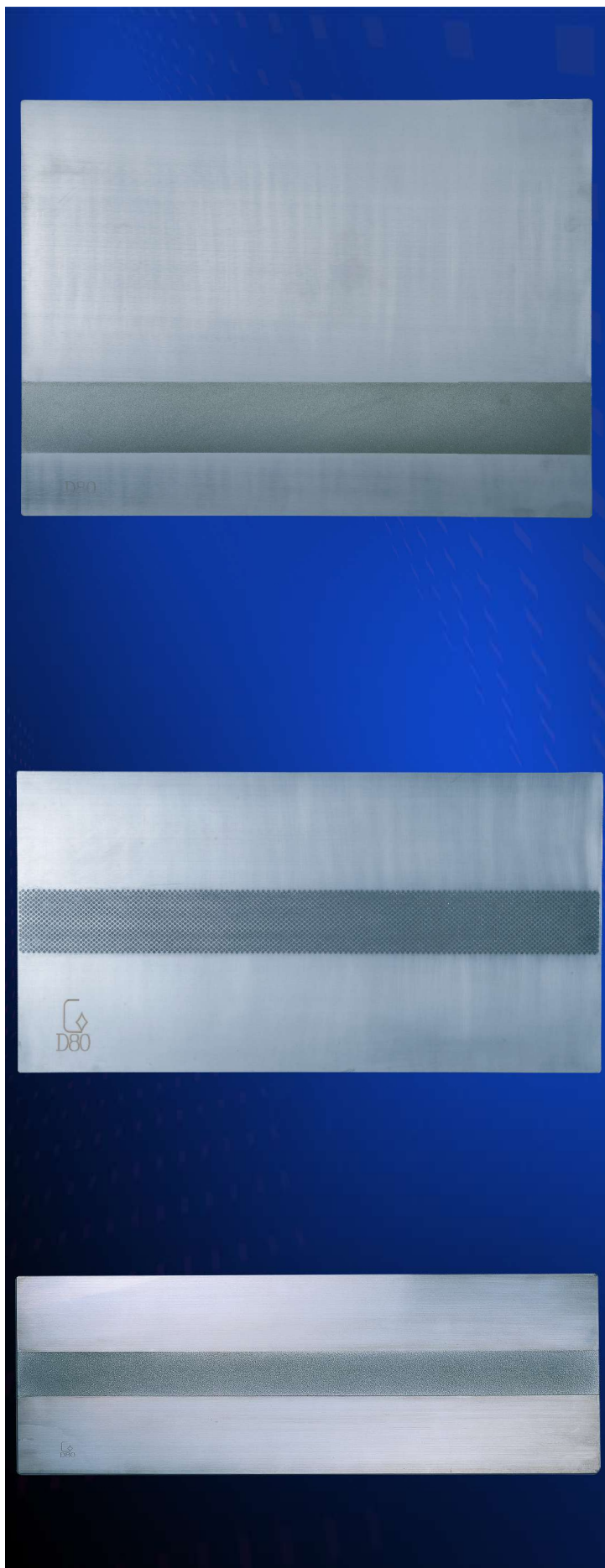


Back side

Single-sided



Unit: mm



Some dimensions are make-to-order. Ask before making a purchase. Offer other specifications according to your drawing or sample.

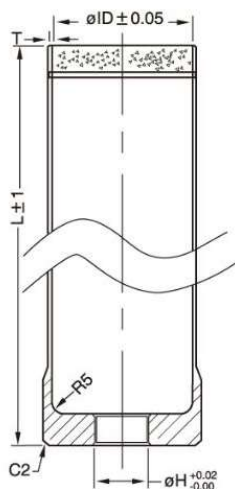


Applications: Core drilling of ceramics, sapphire, glass and quartz.

Features:

Special sintered technic ensures excellent durability.

High precision grinding process achieves perfect drilling quality.



ID(mm)	T(mm)	H(mm)	L(mm)	Bond
53.5	1.5~1.9	20	185+30~300+30	Metal
103	1.7~2.3	20		
154	1.9~2.5	20		

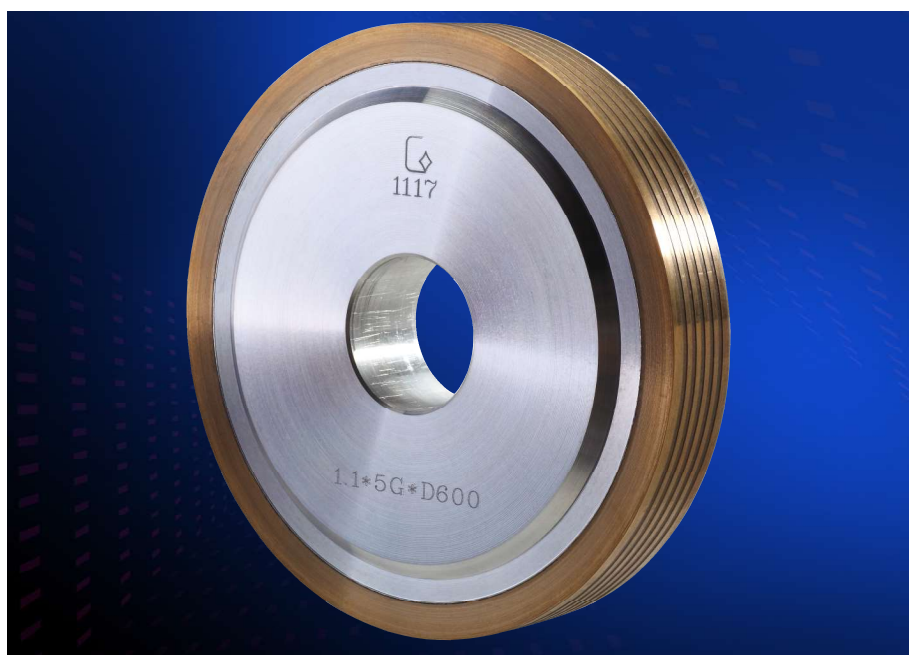
Some dimensions are make-to-order. Ask before making a purchase. Offer other specifications according to your drawing or sample.



Touch panel glass edge-grinding wheels



Touch panel glass polishing wheels



Sintered diamond grinding wheel

Application:
For touch panel glass edge-grinding.

Offer other specifications according to your drawing or sample.

Production Equipment



廈門佳品金剛石工業有限公司

XIAMEN CHIAPING DIAMOND INDUSTRIAL CO., LTD.

361023 福建省廈門市集美區灌口中路 126 號

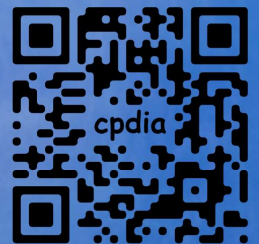
No.126, Guankou Zhong Rd., Jimei, Xiamen 361023, Fujian, China

TEL: +86-592-5217731

FAX: +86-592-5217217

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cp.tools@msa.hinet.net

<https://www.cptools.com.tw>

