

CATALOG OF TUNGSTEN CARBIDE DRAWING DIE

Anvils and Pressure Cylinders

Date of Preparation: 08/19/2011

Revision 2011

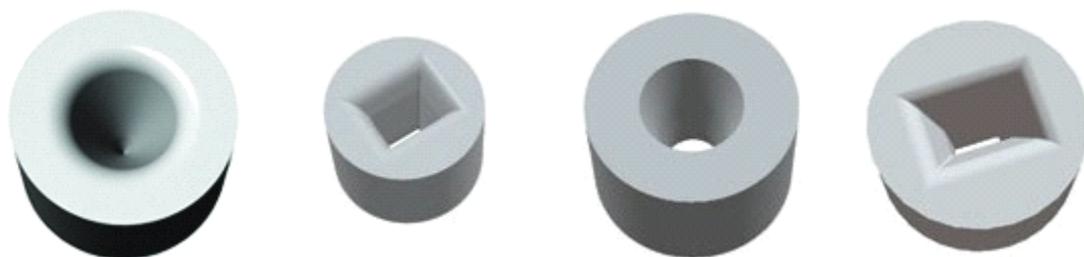
Reason for Issue: Updated Format

Chemical Name: Tungsten Carbide

Chemical Family: Refractory Metal (non-ferrous metal)

Chemical Formula: WC

Manufacturer: E-Biz Center of China Tungsten Industry Association



MORE INFORMATION

Web: www.carbidestungsten.com

Email: ebiz@ctia.com.cn

PRODUCTS CONTENTS

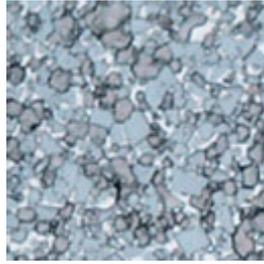
Drawing die recommend grades.....	2
The application of drawing dies.....	3
How selection the tungsten carbide drawing dies?.....	3
Grade and properties for Tungsten carbide drawing die.....	4
Drawing die dimension and tolerance.....	4
Out Diameter and Tolerance.....	5
Internal Diameter and Tolerance.....	5
High and Tolerance.....	5
Type GS2 drawing die.....	5
Type A drawing die.....	6
Type V drawing die.....	7
Type W drawing die.....	8
Type S11 drawing die.....	9
Type S13 drawing die.....	10
Type 10 drawing die.....	12
Type 12 drawing die.....	12
Type 20 drawing die.....	13
Type 22 drawing die.....	14
Type 23 drawing die.....	15
Type 30 drawing die.....	16
Type 31 drawing die.....	17
Type 40 drawing die.....	18
Type 41 drawing die.....	19
Type 42 drawing die.....	20
Type 60 drawing die.....	21
COMPANY INFORMATION.....	22

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Drawing die recommend grades



The application of drawing dies

Wiredrawing dies a wide range of USES, such as electronic devices, radar, television, instruments and spaceflight high-precision silk material used and common tungsten, molybdenum wire, stainless steel wire, cable wire and various alloy with SiDou is drawing mode control out of the diamond, diamond wire drawing die due to the natural diamond, which has strong as raw materials of high wear resistance, the use of life.

Drawing dies is all sorts of metal wire manufacturer (such as wire enterprise GangSiChang, electrode welding wire, wire factory etc) control of a kind of very important easy debilitating mold. The drawing dies is very extensive, mainly used for drawing bar, wire, silk material and pipe materials for linear difficult-to-machine objects, steel, copper, tungsten, molybdenum etc of metal and alloy material drawing processing. Due to the cost of drawing die drawing expenses accounts for the 1/2 above, therefore, how to decrease wiredrawing mould cost, improve its service life is metal wire production unit urgent need to address the problem.

How selection the tungsten carbide drawing dies?

Although wiredrawing mode can be used for processing all kinds of steel, copper, tungsten, molybdenum etc metal and alloy material of different materials, but drawing die each have its applicable machining scope, therefore drawing mould material is rational selection of key to ensure successful application to obtain the longest die longevity. Different material wiredrawing mold all have its relatively reasonable processing object.

According to the material drawing mode can be divided into alloy steel, hard alloy mould, natural diamond die, polycrystalline diamond mold, CVD diamond die and ceramic mold and so on many kinds. And widely used in electronic devices, radar, television, instruments and aerospace and other high-tech industries, with strong abrasion resistance, service life is extremely high.

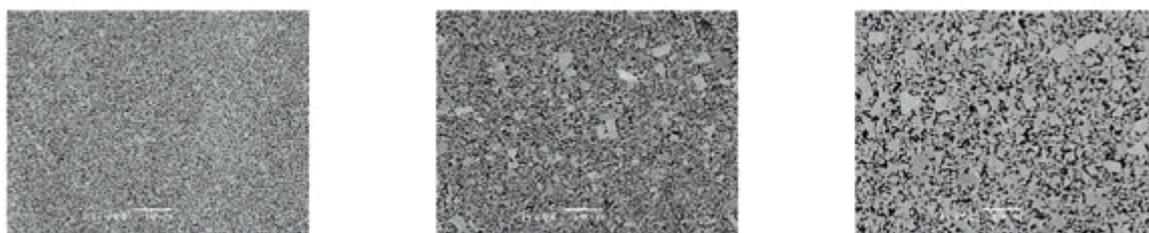
For example, in the copper wire drawing the same diameter, polycrystalline diamond die when the service life is hard alloy die life of 300 to 500 times when drawing nickel wire is only 80 ~ 100 times, drawing molybdenum wire, its life only hard alloy die life of 50 ~ 80 times, and pull out carbon steel, polycrystalline diamond die life is hard alloy die 20 ~ 60 times.

Blind in drawing mode choice, the friction wear complex, generally divided into destruction and friction

and wear two kinds big. The drawing mode damage can divide again ring damage, stretching damage, shear failure and bearing surface damage etc, friction and wear can be divided into abrasion wear, friction wear and corrosion wear, bruises and fine particles produce wear etc.

The above several damage and friction and wear form may often intertwined, drawing mode for analysis the destruction of an increased level of difficulty wear mechanisms. But overall, the wear resistance of drawing mode of various materials from high to low ranking is: diamond wiredrawing modes (not consider natural diamond anisotropic problem) - ceramic wiredrawing mode - hard alloy wire drawing die -- has eliminated the alloy steel.

Grade and properties for Tungsten carbide drawing die



Grade	Density(g/cm3)	Hardness (HRA, Hv3)	T.R.S(N/mm2)	Coercive Force	Cobat Magnet	WC Average Grain Size	Porosity<	Non-combined Carbon Porosity	Phase<
YL01	15.15~15.30	>1930	>1900	30.0~38.0	2.4~3.0	0.8	A02B00	C00	E00
YL05.1	14.86~15.05	>1770	>2200	27.0~33.0	4.8~6.0	0.8	A02B00	C00	E00
YL10.2	14.40~14.55	1550~1650	>2000	18.4~22.5	7.9~9.5	0.8	A02B00	C00	E00
YG6X	14.85~15.05	>91.0	>1560	19.0~26.0	4.8~6.0	0.8~1.0	A04B02	C02	E00
YRL10	14.90~15.04	>1500	>2500	13.5~18.0	4.7~5.7	1.2	A02B00	C00	E00
YG3	15.20~15.40	>90.5	>1300	16.0~19.5	2.4~3.0	1.2~2.0	A04B02	C02	E00
YG6	14.85~15.05	>89.5	>1670	11.0~16.0	4.8~6.0	1.2~2.0	A04B02	C02	E00
YG8	14.65~14.85	>89.0	>1840	10.0~15.5	6.2~7.8	1.2~2.0	A04B02	C02	E00
YG11	14.30~14.50	>87.0	>2200	7.0~14.0	9.0~11.5	1.2~2.0	A04B02	C02	E00
YG15	13.95~14.15	>86.5	>2400	7.0~11.0	12.0~15.0	1.2~2.0	A04B02	C02	E00
MA30	14.85~15.05	>89.7	>2000	11.0~16.0	4.8~6.0	1.6	A02B00	C02	E00
MA30A	14.65~14.85	>89.2	>2300	10.0~15.5	6.2~7.8	1.6	A02B00	C02	E00
MA10	14.77~14.87	2050~2200	>3300(C)	36.0~38.0	4.5~5.4	0.6	A02B00	C00	E00

Drawing die dimension and tolerance



Out Diameter and Tolerance

ID(mm)	Tolerance(mm)	ID(mm)	Tolerance(mm)
D < 10	0~0.20	35 < D < 40	-0.30~0.30
10 < D < 16	0~0.30	40 < D < 45	-0.35~0.35
16 < D < 30	0~0.40	45 < D < 50	-0.40~0.40
30 < D < 35	-0.25~0.25	50 < D	-/+1.3%D

Internal Diameter and Tolerance

ID(mm)	Tolerance(mm)	ID(mm)	Tolerance(mm)
0.10 < d < 0.30	-0.05~0	9.0 < d < 24.0	-0.30~0
0.30 < d < 0.40	-0.06~0	24.0 < d < 32.0	-0.50~0
0.40 < d < 0.60	-0.08~0	32.0 < d < 40.0	-0.60~0
0.60 < d < 3.0	-0.10~0	40.0 < d < 55.0	-0.80~0
3.0 < d < 6.0	-0.15~0	55.0 < d < 90.0	-1.0~0
6.0 < d < 9.0	-0.20~0		

High and Tolerance

ID(mm)	Tolerance(mm)	ID(mm)	Tolerance(mm)
H < 10	-0.2~0.20	30 < H < 40	-0.50~0.50
10 < H < 20	-0.30~0.30	40 < H < 50	-0.50~0.50
20 < H < 30	-0.40~0.40	50 < H < 60	-0.80~0.80

MORE INFORMATION

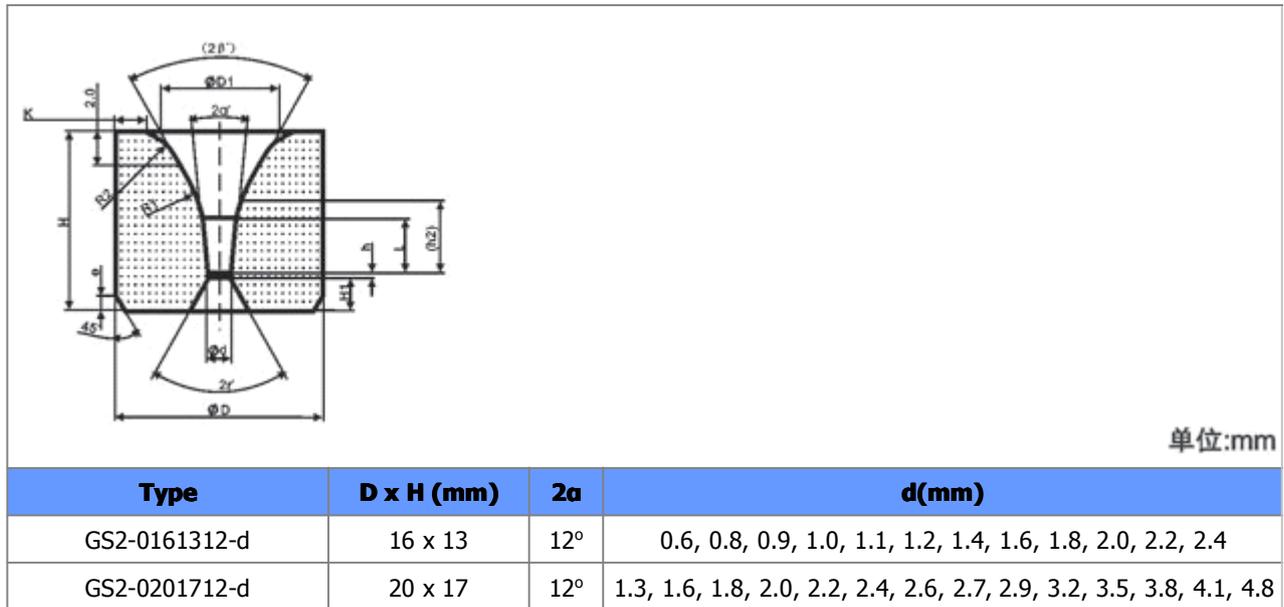
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Type GS2 drawing die



Type GS2 drawing die



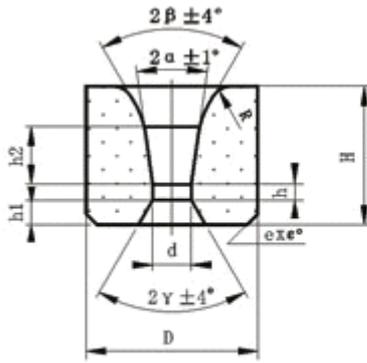
Type A drawing die



Type A drawing die

MORE INFORMATION

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单位:mm

Type	D x H (mm)	2α	d(mm)
A-0100812-d	10 x 8	12°	0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 1.00
A-0121012-d	12 x 10	12°	0.20, 0.25, 0.30, 0.35, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 1.00, 1.10, 1.20, 1.30, 1.40, 1.50, 1.60, 1.70, 1.80
A-0141212-d	14 x 12	12°	0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 1.00, 1.10, 1.20, 1.30, 1.40, 1.50, 1.60, 1.70, 1.80, 1.90, 2.00, 2.10, 2.20
A-0161312-d	16 x 13	12°	0.60, 0.70, 0.80, 0.90, 1.00, 1.10, 1.20, 1.30, 1.40, 1.50, 1.60, 1.70, 1.80, 1.90, 2.00, 2.10
A-0161314-d	16 x 13	14°	2.20, 2.30, 2.40, 2.50, 2.60, 2.70, 2.80, 2.90, 3.00
A-0201712-d	20 x 17	12°	1.00, 1.10, 1.20, 1.30, 1.40, 1.50, 1.60, 1.70
A-0201714-d	20 x 17	14°	1.80, 1.90, 2.00, 2.10, 2.20, 2.30, 2.40, 2.50, 2.60, 2.70, 2.80, 2.90, 3.00, 3.20, 3.30, 3.50, 3.70, 3.80, 4.00, 4.20, 4.50, 4.70, 4.80
A-0252014-d	25 x 20	14°	2.30, 2.40, 2.50, 2.60, 2.70, 2.80, 2.90, 3.00, 3.20, 3.30, 3.50, 3.70, 3.80, 4.00, 4.20
A-0252016-d	25 x 20	16°	4.50, 4.70, 4.80, 5.10, 5.20, 5.50, 5.70, 6.00, 6.20
A-0252118-d	25 x 21	18°	6.50, 6.80, 7.00, 7.50, 8.00, 8.50
A-0302416-d	30 x 24	16°	3.80, 4.00, 4.20, 4.50, 4.70, 5.00, 5.20, 5.50, 5.70, 6.00, 6.20, 6.50, 6.70, 7.00, 7.30, 8.20, 8.70, 9.00, 9.50, 9.70

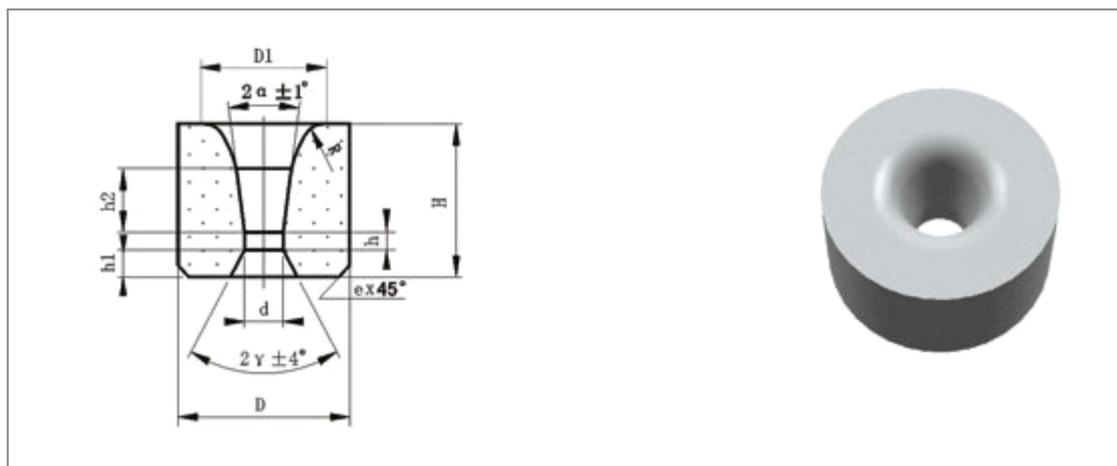
Type V drawing die



Type V drawing die

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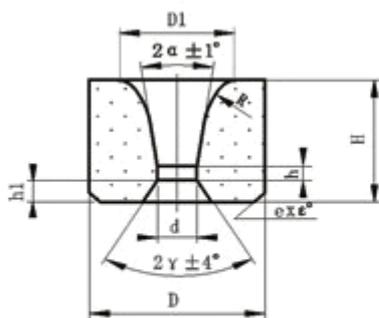


Type	D x H (mm)	2α	d(mm)
V-0151312 -d	15 x 13	12°	0.60, 0.70, 0.80, 0.90, 1.00, 1.10, 1.20, 1.30, 1.40, 1.50, 1.60, 1.70, 1.80, 1.90, 2.00, 2.10, 2.20, 2.30, 2.40, 2.50, 2.60, 2.70, 2.80, 2.90, 3.00, 3.20, 3.30, 3.50, 3.60
V-0151316 -d	15 x 13	16°	0.60, 0.70, 0.80, 0.90, 1.00, 1.10, 1.20, 1.30, 1.40, 1.50, 1.60, 1.70, 1.80, 1.90, 2.00, 2.10, 2.20, 2.30, 2.40, 2.50, 2.60, 2.70, 2.80, 2.90, 3.00, 3.20, 3.30, 3.50, 3.60
V-0191712 -d	19 x 17	12°	1.80, 1.90, 2.00, 2.10, 2.20, 2.30, 2.40, 2.50, 2.60, 2.70, 2.80, 2.90, 3.00, 3.20, 3.30, 3.50, 3.60, 3.80, 3.90, 4.10, 4.20, 4.50, 4.60, 4.90, 5.10, 5.20, 5.50
V-0191714 -d	19 x 17	14°	5.60, 5.90, 6.20, 6.50, 6.90
V-0191716 -d	19 x 17	16°	1.80, 1.90, 2.00, 2.10, 2.20, 2.30, 2.40, 2.50, 2.60, 2.70, 2.80, 2.90, 3.00, 3.20, 3.30, 3.50, 3.60, 3.80, 3.90, 4.10, 4.20, 4.50, 4.60, 4.90, 5.20, 5.50, 5.60, 5.90, 6.20, 6.50, 6.80
V-0252014 -d	25 x 20	14°	5.70, 6.00, 6.20, 6.50, 6.70, 7.00, 7.20, 7.70
V-0302114 -d	30 x 21	14°	8.2, 8.6, 9.0, 9.3, 9.6, 10.0, 10.5, 11.0, 11.5

Type W drawing die



Type W drawing die



单位:mm

Type	D x H (mm)	2α	d(mm)
W-0060412-d	6 x 4	12°	0.20, 0.25, 0.30, 0.35, 0.40
W-0080612-d	8 x 6	12°	0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 1.00
W-0090612-d	9 x 6	12°	0.12, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 1.00, 1.10, 1.20, 1.30, 1.40, 1.50
W-0120814-d	12 x 8	14°	0.60, 0.70, 0.80, 0.90, 1.00, 1.10, 1.20, 1.30, 1.40, 1.50, 1.60
W-0151014-d	15 x 10	14°	1.00, 1.10, 1.20, 1.30, 1.40, 1.50, 1.60, 1.70, 1.80, 1.90, 2.00, 2.10, 2.20, 2.30, 2.40, 2.50, 2.60, 2.70, 2.80, 2.90, 3.00, 3.20, 3.40, 3.50, 3.70, 3.80
W-0201414-d	20 x 14	14°	1.10, 1.20, 1.30, 1.40, 1.50, 1.60, 1.70, 1.80, 1.90, 2.00, 2.10, 2.20, 2.30, 2.40, 2.50, 2.60, 2.70, 2.80, 2.90, 3.00, 3.20, 3.40, 3.60, 3.80, 4.00, 4.20
W-0251416-d	20 x 14	16°	4.40, 4.70, 5.00, 5.30, 5.60, 5.70
W-0251814-d	25 x 18	14°	3.00, 3.20, 3.40, 3.60, 3.80, 4.00, 4.20, 4.50, 4.80, 5.10, 5.40, 5.50, 5.80, 6.00, 6.30, 7.00
W-0252016-d	25 x 18	16°	6.50, 6.80, 7.30, 7.70
W-0302216-d	30 x 22	16°	7.70, 8.00, 8.40, 9.00, 9.40, 10.00, 10.50, 11.00
W-0352516-d	35 x 25	16°	6.70, 7.00, 7.50, 7.70, 8.20, 8.70, 9.30, 9.80, 10.00, 10.50, 11.00, 11.50, 12.00, 12.50, 13.00

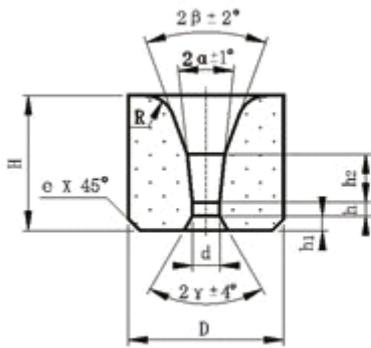
Type S11 drawing die



Type S11 drawing die

MORE INFORMATION

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单位:mm

Type	D x H (mm)	2α	d(mm)
S11-0080610-d	8 x 6	10°	0.60, 0.70, 0.80, 0.90, 1.00, 1.10, 1.20
S11-0080612-d	8 x 6	12°	0.20, 0.25, 0.30, 0.35, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 1.00
S11-0080616-d	8 x 6	16°	0.40, 0.50, 0.60, 0.70, 0.80
S11-0131010-d	13 x 10	10°	0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 1.00, 1.00, 1.10, 1.20, 1.30, 1.40, 1.50, 1.60, 1.70, 1.80, 1.90, 2.00, 2.10, 2.20, 2.30, 2.40, 2.50
S11-0131014-d	13 x 10	14°	0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 1.00, 1.00
S11-0131016-d	13 x 10	16°	1.10, 1.20, 1.30, 1.40, 1.50, 1.60, 1.70, 1.80, 1.90, 2.00, 2.10, 2.20, 2.30, 2.40, 2.50, 2.6
S11-0161310-d	16 x 13	10°	0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 1.00, 1.00
S11-0161312-d	16 x 13	12°	1.10, 1.20, 1.30, 1.40, 1.50, 1.60, 1.70, 1.80, 1.90, 2.00, 2.10, 2.20, 2.30, 2.40, 2.50, 2.6, 2.70, 2.80, 2.90, 3.00, 3.20, 3.40, 3.50
S11-0161316-d	16 x 13	16°	0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 1.00, 1.10, 1.20, 1.30, 1.40, 1.50, 1.60, 1.70, 1.80, 1.90, 2.00, 2.10, 2.20, 2.30, 2.40, 2.50, 2.6, 2.70, 2.80, 3.00
S11-0201716-d	20 x 17	18°	1.80, 1.90, 2.00, 2.10, 2.20, 2.30, 2.40, 2.50, 2.6, 2.70, 2.80, 3.00, 3.30, 3.50, 3.80, 4.00, 4.20, 4.40, 4.70, 5.00, 5.20
S11-0201814-d	22 x 18	14°	1.70, 1.80, 1.90, 2.00, 2.10, 2.20, 2.30, 2.40, 2.50, 2.6, 2.70, 2.80, 2.90, 3.10, 3.30, 3.50, 3.80, 4.00, 4.20, 4.50, 4.70, 5.00
S11-0201818-d	22 x 18	18°	1.50, 1.60, 1.70, 1.80, 1.90, 2.00, 2.30, 2.40, 2.50, 2.6, 2.70, 2.80, 2.90, 3.00, 3.10, 3.30, 3.50, 3.80, 4.00, 4.20, 4.50, 4.70, 5.00, 5.20, 5.40, 5.70, 6.00
S11-0222012-d	22 x 20	12°	5.20, 5.70
S11-0222014-d	22 x 20	14°	5.20, 5.50, 5.70

MORE INFORMATION

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Type S13 drawing die



Type S13 drawing die



Type	D x H (mm)	2α	d(mm)
S13-0201716-d	20 x 17	16°	1.8, 2.0, 2.3, 2.8, 3.3, 3.8, 4.2, 4.7, 5.2, 5.7
S13-0281820-d	28 x 18	20°	5.7, 6.0, 6.3, 6.6, 7.0, 7.3, 7.7, 8.2, 8.6
S13-0282014-d	28 x 20	14°	3.7, 3.9, 4.1, 4.4, 4.7, 5.0, 5.3, 5.5, 5.7, 6.0, 6.3, 6.6, 6.7, 7.0, 7.5, 7.7
S13-0282020-d	28 x 20	20°	4.7, 5.0, 5.2, 5.4, 5.7, 6.0, 6.2, 6.5, 6.7, 7.0, 7.3, 7.7, 8.2, 8.3, 9.1, 9.6
S13-0302114-d	30 x 21	14°	3.7, 3.9, 4.1, 4.3, 4.6, 4.7, 5.0, 5.3, 5.6, 5.7, 6.0, 6.3, 6.6, 6.7, 7.0, 7.3, 7.5, 7.7, 8.0, 8.6, 9.6
S13-0302119-d	30 x 21	19°	3.7, 3.9, 4.1, 4.3, 4.6, 4.7, 5.0, 5.3, 5.6, 5.7, 6.0, 6.5, 6.7, 7.0, 7.3, 7.7, 8.1, 8.6, 9.0, 9.6
S13-0332316-d	33 x 23	16°	10.5, 11.5, 12.0, 12.5
S13-0352420-d	35 x 24	20°	9.6, 10.1, 10.5, 11.5
S13-0382420-d	38 x 24	20°	10.5, 11.5, 12.5, 13.5, 14.5
S13-0402516-d	40 x 25	16°	10.5, 11.5, 12.5, 13.5, 14.5, 15.5
S13-0402519-d	40 x 25	19°	10.5, 11.5, 12.5, 13.5, 14.5, 15.5
S13-0502816-d	50 x 28	16°	16.5, 17.5, 18.5, 19.5, 20.5, 21.5, 22.5, 23.5, 24.5
S13-0502819-d	50 x 28	19°	16.5, 17.5, 18.5, 19.5, 20.5, 21.5, 22.5, 23.5, 24.5
S13-0603519-d	60 x 35	19°	25.5, 26.5, 27.5, 28.5, 29.5, 30.5, 31.5, 32.5, 33.5, 34.5
S13-0653519-d	65 x 35	19°	29.5, 30.5, 31.5, 32.5, 33.5

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S13-0753518-d	75 x 35	18°	41.5, 42.5, 43.5
S13-0753520-d	75 x 35	20°	34.5, 35.5, 36.5, 37.5, 38.5, 39.5, 40.5
S13-0803520-d	80 x 35	20°	41.5, 42.5, 43.5, 44.5, 45.0
S13-0853520-d	85 x 35	20°	41.5, 42.5, 43.5, 44.5, 45.0
S13-0903520-d	90 x 35	20°	45.0, 46.0, 47.0, 48.0, 49.0, 50.0, 51.0, 52.0, 53.0, 54.0, 55.0, 56.0, 57.0, 58.0
S13-0953520-d	95 x 35	20°	53.0, 54.0, 55.0, 56.0, 57.0
S13-1003520-d	100 x 35	20°	47.0, 48.0, 49.0, 50.0, 51.0, 52.0, 53.0, 54.0, 55.0, 56.0, 57.0
S13-1104020-d	110 x 40	20°	59.0, 60.0, 61.0, 61.5, 62.5, 63.5, 64.0, 65.0, 66.0, 67.0, 68.0, 69.0, 70.0
S13-1405020-d	140 x 50	20°	71.0, 72.0, 73.0, 74.0, 75.0, 76.0, 77.0, 78.0, 79.0, 80.0, 81.5, 82.5, 83.5, 84.0

Type 10 drawing die



Type 10 drawing die

				单位:mm			
Type	D x H (mm)		2α	d(mm)			
10-0060440-d	6 x 4		40°	0.40, 0.60, 0.80			
10-0080640-d	8 x 6		40°	0.40, 0.60, 0.80			

MORE INFORMATION

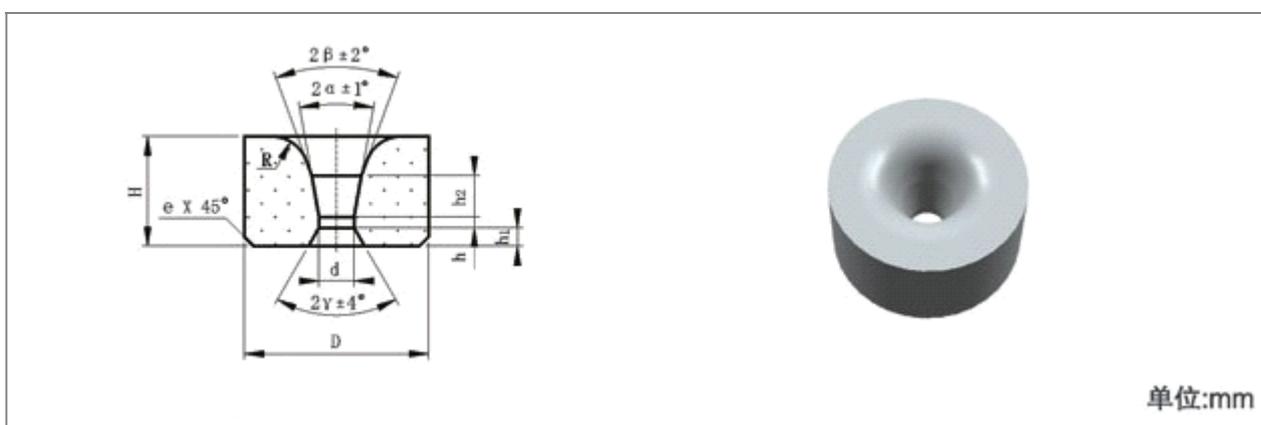
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Type 12 drawing die



Type 12 drawing die



Type	D x H (mm)	2α	d(mm)
12-0130816-d	13 x 8	16°	0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 1.00, 1.10, 1.20, 1.30, 1.40, 1.50, 1.60, 1.70, 1.80, 1.90, 2.00, 2.10, 2.20, 2.30
12-0161016-d	16 x 10	16°	0.80, 0.90, 1.00, 1.10, 1.20, 1.30, 1.40, 1.50, 1.60, 1.70, 1.80, 1.90, 2.00, 2.10, 2.20, 2.30, 2.40, 2.50, 2.60, 2.70, 2.80
12-0201216-d	20 x 12	16°	1.80, 1.90, 2.00, 2.10, 2.20, 2.30, 2.40, 2.50, 2.60, 2.70, 2.80, 2.90, 3.10, 3.30, 3.50, 3.80, 4.00, 4.30, 4.60, 5.00
12-0221416-d	22 x 14	16°	4.20, 4.50, 4.70, 5.00, 5.20, 5.50, 5.70
12-0261616-d	26 x 16	16°	6.40, 6.70, 7.00, 7.20, 7.50, 7.70, 8.00

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Type 20 drawing die



Type 20 drawing die

Type	D x H (mm)	2α	d(mm)
20-0161406-d	16 x 14	6°	2.0, 3.0
20-0221806-d	22 x 18	6°	4.0
20-0302206-d	30 x 22	6°	5.0, 6.0, 7.0, 8.0
20-0352506-d	35 x 25	6°	9.0, 10.0, 11.0
20-0402806-d	40 x 28	6°	12.0, 13.0, 14.0
20-0453006-d	45 x 30	6°	15.0, 16.0, 17.0
20-0503206-d	50 x 32	6°	18.0, 19.0, 20.0, 21.0
20-0553206-d	55 x 32	6°	22.0, 23.0, 24.0, 25.0
20-0603406-d	60 x 34	6°	26.0, 27.0, 28.0,
20-0653606-d	65 x 36	6°	29.0, 30.0, 31.0
20-0754206-d	75 x 42	6°	33.0, 35.0
20-0854506-d	85 x 45	6°	37.0, 39.0
20-0954806-d	95 x 48	6°	41.0, 43.0, 45.0
20-1005206-d	100 x 52	6°	47.0, 51.0
20-1105206-d	110 x 52	6°	56.0, 60.0

单位:mm

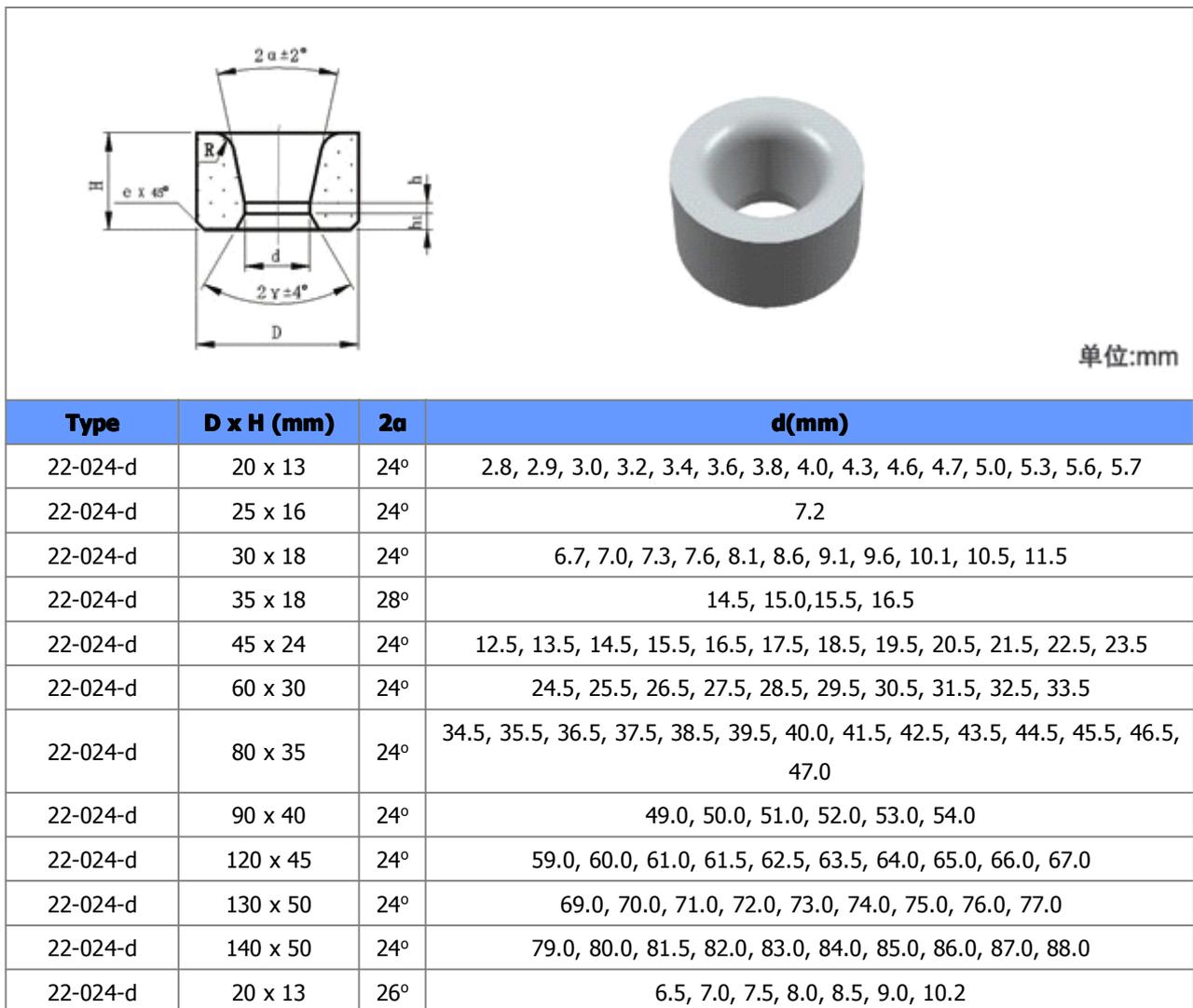
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Type 22 drawing die



Type 22 drawing die



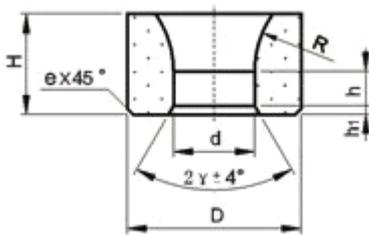
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Type 23 drawing die



Type 23 drawing die



单位:mm

Type	D x H (mm)	2α	d(mm)
23-0301800-d	30 x 18	0°	11.7
23-0503200-d	50 x 32	0°	20.0, 22.0, 24.0
23-0603500-d	60 x 35	0°	26.0, 28.0, 30.0
23-0704200-d	70 x 42	0°	32.0, 34.0, 36.0
23-0754200-d	75 x 42	0°	38.0, 40.0
23-0854500-d	85 x 45	0°	42.0, 44.0, 46.0
23-1005000-d	100 x 50	0°	48.0, 50.0, 52.0, 54.0
23-1105000-d	110 x 50	0°	56.0, 58.0, 60.0, 62.0
23-1255500-d	125 x 55	0°	64.0, 66.0, 68.0, 70.0

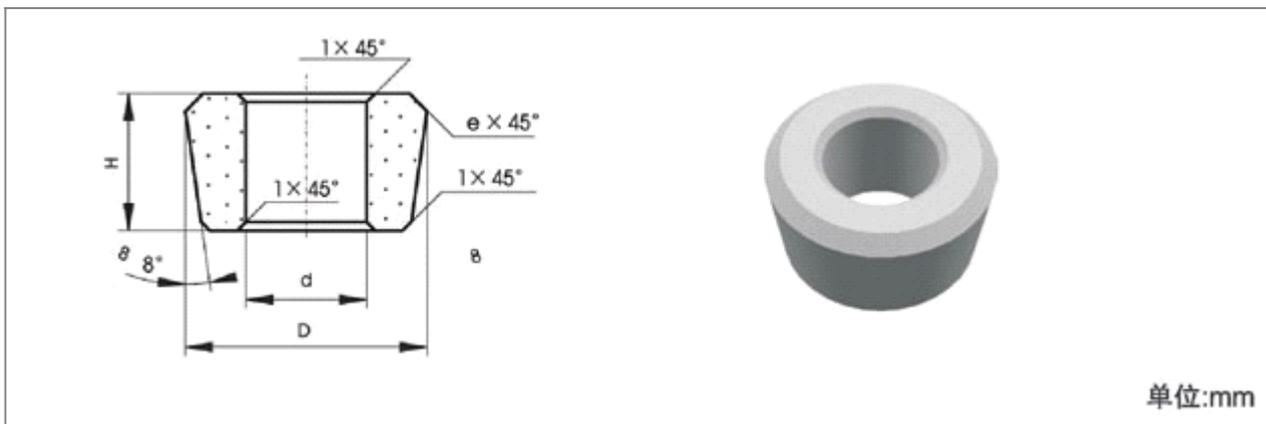
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Type 30 drawing die



Type 30 drawing die



单位:mm

Type	D(mm)	H(mm)	d(mm)	e
30-0151200-6.0	15	12	6	1
30-0171200-8.0	17	12	8	1
30-0191400-10.0	19.5	14	10	1
30-0211400-10.0	21.5	14	10	1
30-0231600-12.0	23.5	16	12	1
30-0251600-14.0	25.5	16	14	1
30-0271600-14.0	27.5	16	14	2
30-0282700-15.0	28	27	15	2
30-0292700-15.0	29.2	27	15	2
30-0302700-15.0	30.4	27	15	2
30-0312700-15.0	31.6	27	15	2
30-0322700-15.0	32.2	27	15	2
30-0332700-15.0	33.4	27	15	2
30-0342700-17.0	34	27	17	2
30-0352700-17.0	35.2	27	17	2
30-0362700-17.0	36.4	27	17	2
30-0372700-19.0	37	27	19	2

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30-0382700-19.0	38.2	27	19	2
30-0392700-19.0	39.4	27	19	2
30-0402700-21.0	40	27	21	3
30-0412700-21.0	41	27	21	3
30-0422700-21.0	42	27	21	3
30-0432700-21.0	43	27	21	3

Type 31 drawing die



Type 31 drawing die

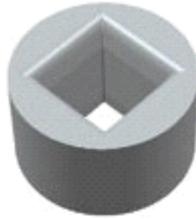
单位:mm					
Type	D(mm)	H(mm)	d(mm)	e1	e
31-0142500-7.0	14	25	7	1.0	0.5
31-0152500-7.0	15	25	7		
31-0162500-7.0	16	25	7		
31-0172500-8.0	17	25	8		
31-0182500-8.0	18	25	8		
31-0193000-10.0	19	30	10		
31-0203000-10.0	20	30	10		
31-0213000-10.0	21	30	10		
31-0223000-10.0	22	30	10		

MORE INFORMATION

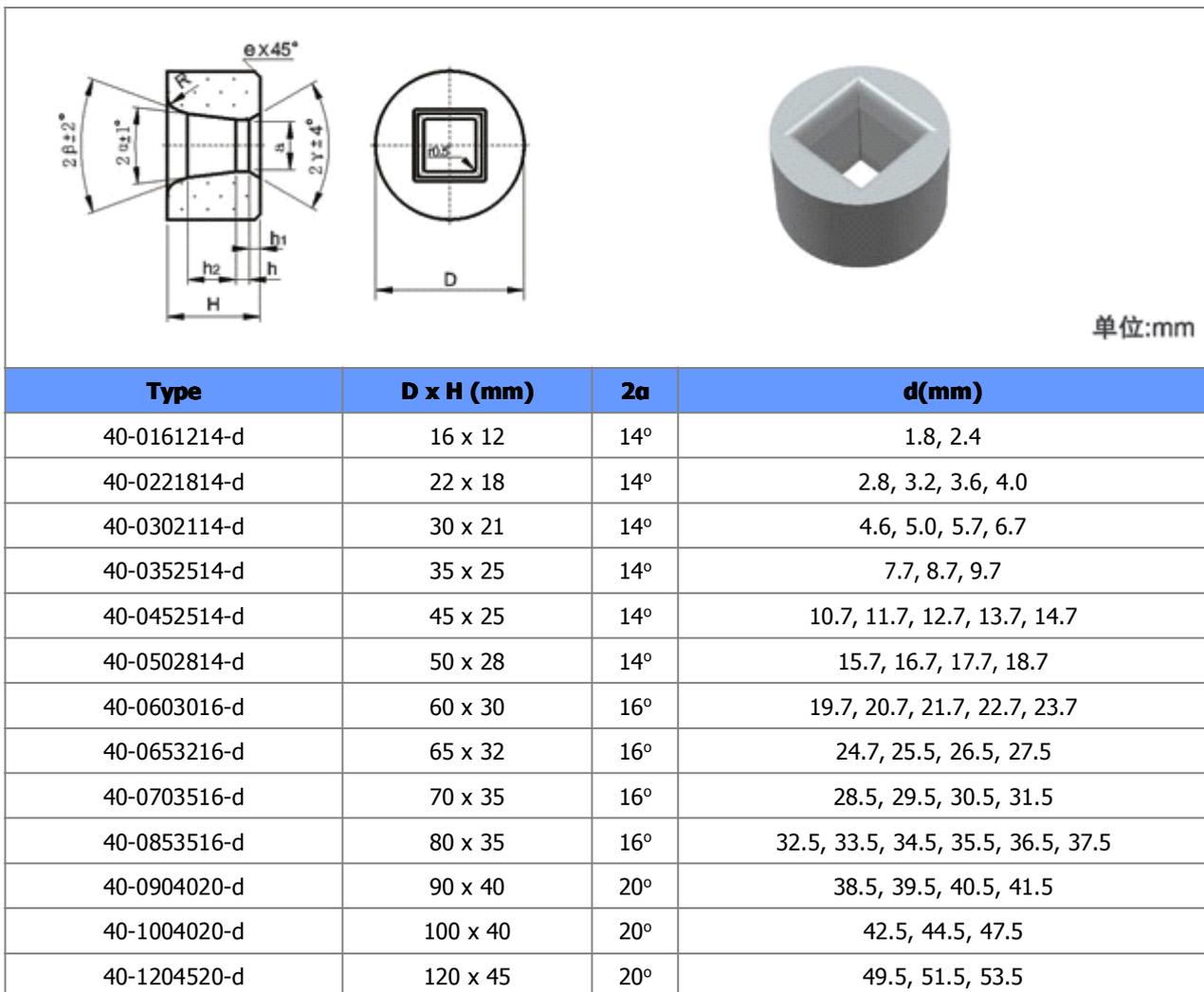
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Type 40 drawing die



Type 40 drawing die



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Type 41 drawing die



Type 41 drawing die

Type	D x H (mm)	2α	a x b (mm)
41-0302114-a x b	30 x 21	14°	6.7x4.7
41-0352514-a x b	35 x 25	14°	7.7x5.7, 7.7x6.7, 8.7x2.7, 9.7x3.7, 9.7x5.7, 9.7x6.7, 9.7x7.7
41-0452514-a x b	45 x 25	14°	11.7x7.7, 11.7x9.7
41-0502814-a x b	50 x 28	14°	13.7x6.7, 13.7x8.7, 15.6x7.7, 15.6x9.7, 15.6x12.7, 15.6x11.7, 17.6x10.7, 17.6x15.7
41-0603014-a x b	60 x 30	14°	19.6x7.7, 19.6x9.7, 19.6x11.7, 19.6x14.7, 21.6x9.2, 21.6x11.7, 21.6x14.2, 23.6x11.7, 23.6x14.7

Type 42 drawing die

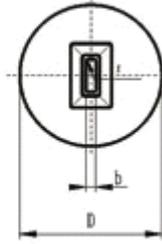
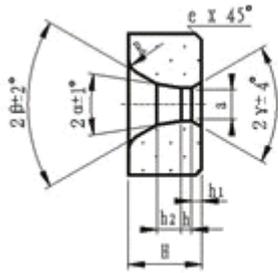


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Type 42 drawing die



单位:mm

Type	D x H (mm)	2α	a x b (mm)
42-0201218-a x b	20 x 12	18°	1.9x1.0, 1.9x1.4, 2.4x1.0, 2.4x1.4, 3.1x1.0, 3.1x1.4, 3.1x1.9
42-0221218-a x b	22 x 12	18°	3.0x0.60, 4.0x0.60, 5.0x1.1
42-0251518-a x b	25 x 15	18°	3.9x1.0, 3.9x1.5, 3.9x1.9, 3.9x2.4, 4.5x1.1, 4.5x1.5, 4.5x1.9, 4.5x2.4, 4.5x2.8, 5.3x1.1, 5.3x1.5, 5.3x1.9, 5.3x2.3, 5.3x3.1, 5.3x3.9, 6.0x0.60, 6.2x1.1, 6.2x1.5, 6.2x1.9, 6.2x2.4, 6.2x3.1, 6.2x3.9, 7.0x0.60
42-0351818-a x b	35 x 18	18°	7.2x1.1, 7.2x1.5, 7.2x1.9, 7.2x2.4, 7.2x3.1, 7.2x3.9, 7.2x4.9, 8.4x1.2, 8.4x1.5, 8.4x1.9, 8.4x2.4, 8.4x3.1, 8.4x3.9, 8.4x4.9, 9.1x1.0, 9.1x1.7, 9.1x2.0, 9.1x2.4, 9.1x3.0, 9.1x3.8, 9.1x4.9, 9.8x1.2, 9.8x1.8, 9.8x2.3, 9.8x3.1, 9.8x4.9, 9.8x6.3, 10.8x1.0, 10.8x1.5, 10.8x1.9, 10.8x2.4, 10.8x2.9, 10.8x3.8, 11.4x1.1, 11.4x1.5, 11.4x1.9, 11.4x2.4, 11.4x3.1, 11.4x3.9, 11.4x4.9, 11.4x6.3
42-0452018-a x b	45 x 20	18°	12.8x1.4, 12.8x1.9, 12.8x2.6, 12.8x3.4, 12.8x4.1, 12.8x4.9, 12.8x5.9, 14.6x1.6, 14.6x2.1, 14.6x2.8, 14.6x3.4, 14.6x4.1, 14.6x4.9, 14.6x5.9
42-0502018-a x b	50 x 20	18°	16.5x1.9, 16.5x2.4, 16.5x3.1, 16.5x3.9, 16.5x4.9, 16.5x6.3, 17.6x1.0, 17.6x1.5, 17.6x2.1, 17.6x2.8, 17.6x3.4, 17.6x4.1, 17.6x4.9, 17.6x5.9, 19.2x1.0, 19.2x1.5, 19.2x2.0, 19.2x2.8, 19.2x3.9, 19.2x4.9, 19.2x5.9, 20.8x2.1, 20.8x2.8, 20.8x3.4, 20.8x4.1, 20.8x4.9, 20.8x5.9, 23.2x1.0, 23.2x1.4, 23.2x1.9, 23.2x2.4, 23.2x3.0, 23.2x3.8, 23.2x4.9, 23.2x5.9
42-0602018-a x b	60 x 20	18°	24.5x1.0, 24.5x1.4, 24.5x2.6, 24.5x3.3, 24.5x3.8, 27.0x1.4, 27.0x1.9, 27.0x2.4, 27.0x3.0, 27.7x0.80, 31.0x1.5, 31.0x3.0, 31.0x3.8

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Type 60 drawing die



Type 60 drawing die

Type	D x H (mm)	2α	s(mm)
60-0302114-s	30 x 21	14°	2.5, 3.0, 4.0, 4.7, 5.7, 6.7, 7.7
60-0352114-s	35 x 21	14°	8.6, 9.6, 10.6
60-0352122-s	35 x 21	22°	9.6, 10.6
60-0402514-s	40 x 25	14°	11.5, 12.5
60-0432422-s	43 x 24	22°	14.5, 15.5
60-0452514-s	45 x 25	14°	13.5, 14.5, 15.5, 16.5, 17.5
60-0452523-s	45 x 25	23°	17.7, 18.7
60-0552814-s	55 x 28	14°	19.5, 20.5, 21.5, 22.5, 23.5
60-0552823-s	55 x 28	23°	19.7, 20.7, 21.7, 22.7, 23.7
60-0653016-s	65 x 30	16°	24.5, 25.5, 26.5, 27.5, 28.5
60-0653023-s	65 x 30	23°	24.7, 25.7, 26.7, 27.7, 28.7
60-0753516-s	75 x 35	16°	29.5, 30.5, 31.3, 32.3, 33.3, 34.3, 35.3, 36.3, 37.3
60-0903516-s	90 x 35	16°	38.3, 39.3, 41.0, 42.0, 44.0, 47.0, 49.0
60-1004016-s	100 x 40	16°	52.0, 54.0, 57.5
60-1204216-s	120 x 42	16°	59.5, 61.5, 64.5, 67.5, 70.5, 74.5

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