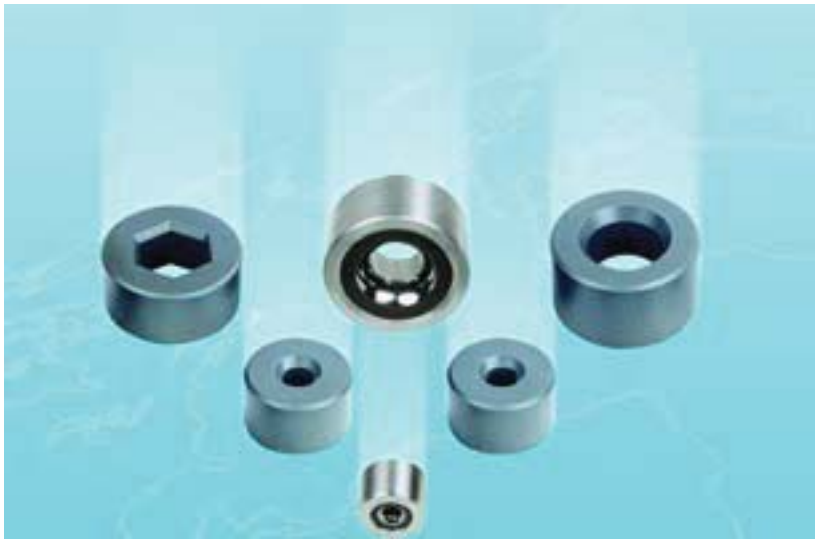
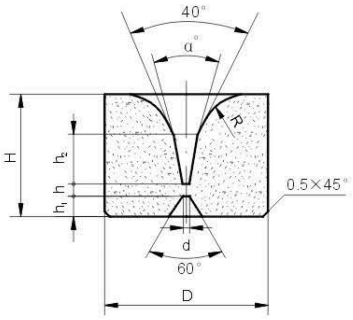
Drawing Dies

Being furnished with a mature production line with advanced equipments and inspection methods, 200~300 tons drawing dies of around 3000 specifications are supplied per year. Special products can be custom-made upon request.

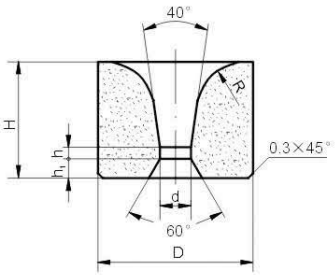


01 Drawing die blank for ferrous and non-ferrous metal wire



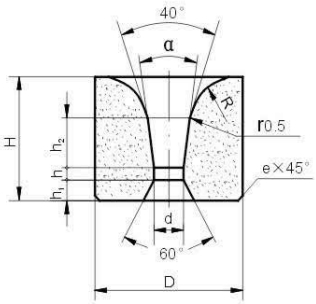
Type	(mm) Basal dimension			(mm) Referenced dimension					(g) Approx unit weight
	D	H	d	h	h_1	h_2	R	α	YG8
01-0.8	6	4	0.2	0.8	0.6	1.0	1.5	10°	1.4
01-1.0	8	6		1.0	0.6	1.2			4.1

10 Drawing die blank for ferrous and non-ferrous metal wire



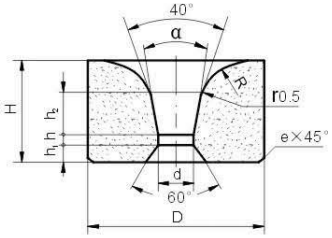
Type	(mm) Basal dimension			(mm) Referenced dimension			(g) Approx unit weight
	D	H	d	h	h_1	R	YG8
10-0.4	6	4	0.4	0.8	0.8	1.0	1.6
10-0.6			0.6	1.0			
10-0.8			0.8	1.2			
10-0.4-8	8	6	0.4	1.0		1.5	4.1
10-0.6-8			0.6	1.2			
10-0.8-8			0.8	1.5			

11 Drawing die blank for ferrous and non-ferrous metal wire



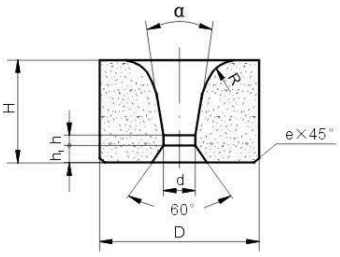
Type	(mm) Basal dimension			(mm) Referenced dimension						(g) Approx unit weight
	D	H	d	h	h_1	h_2	R	α	e	YG8
11-0.4	8	6	0.4	0.3	1.0	1.2	1.5	10°	0.5	4.1
11-0.6			0.6	0.4		1.0				
11-0.8			0.8	0.6		1.8				
11-1.0			1.0			2.0				
11-0.4-13	13	10	0.4	0.3	1.2	2.0	2.0		1.0	18
11-0.6-13			0.6	0.4		2.2				19
11-0.8-13			0.8	0.6		2.5				18
11-1.0-13			1.0	0.7		3.0				18
11-1.3			1.3	1.0						17
11-1.6			1.6							18
11-1.8			1.8	1.2		4.0				
11-2.0			2.0							
11-2.3			2.3	1.4						17
11-0.4-16	16	14	0.4	0.3	1.5	2.0	3.0			37
11-0.6-16			0.6	0.4		2.2				39
11-0.8-16			0.8	0.6						37
11-1.0-16			1.0	0.7		2.5				38
11-1.3-16			1.3	1.0		3.0		12°		37
11-1.8-16			1.8	1.2		4.0				36
11-2.3-16			2.3	1.4		4.5				37
11-2.8			2.8			5.0				36
11-1.8-22	22	18	1.8	1.2	2.5	6.0		14°	1.2	97
11-2.3-22			2.3	1.4						94
11-2.8-22			2.8			7.0				95
11-3.3			3.3	1.8						94
11-3.8										92
11-4.2			4.2	2.2						90
11-4.7			4.7	2.4						89
11-5.2		20	5.2	2.6						104
11-5.7			5.7	2.8		8.0				102

12 Drawing die blank for ferrous metal wire and rod



Type	(mm) Basal dimension			(mm) Referenced dimension						(g) Approx unit weight
	D	H	d	h	h_1	h_2	R	α	e	YG8
12-0.4	8	6	0.4	0.3	1.0	1.4	2.0	10°	0.5	4.1
12-0.6			0.6	0.4		1.6				
12-0.8			0.8	0.6		1.8				
12-0.4-13	13	8	0.4	0.3	1.5	2.0				15
12-0.6-13			0.6	0.5						
12-0.8-13			0.8							14
12-1.0			1.0	0.6		2.5				
12-1.3			1.3	0.8						
12-1.8			1.8			3.0				
12-2.3			2.3	1.0						
12-0.8-16	16	10	0.8	0.5	2.0	2.5	3.0	12°	1.0	29
12-1.0-16			1.0	0.6						28
12-1.3-16			1.3							28
12-1.8-16			1.8	1.0		3.0				29
12-2.3-16			2.3			3.5				27
12-2.8			2.8	1.2						28
12-2.3-20	20	12	2.3	1.0	2.5	4.5		14°		53
12-2.8-20			2.8	1.2						52
12-3.3			3.3	1.4		5.0				
12-3.8			3.8							
12-4.2	22	14	4.2	1.6	3.0	5.5		16°		74
12-4.7			4.7							73
12-5.2			5.2	2.0		7.0				72
12-5.7			5.7							
12-6.4	26	16	6.4	2.0	3.5	7.5	3.5			114
12-7.2			7.2							112
12-8.0			8.0							110

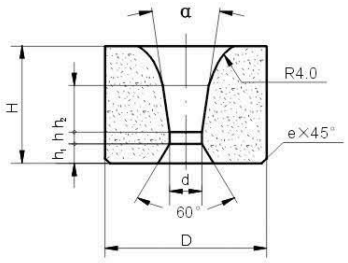
13 Drawing die blank for ferrous and non-ferrous metal rod



Type	(mm) Basal dimension			(mm) Referenced dimension					(g) Approx unit weight
	D	H	d	h	h_1	α	R	e	YG8
13-3.7	30	21	3.7	1.5	3.0	14°	5.0	1.2	210
13-4.7			4.7						205
13-5.7			5.7	2.5					199
13-6.7			6.7						195
13-7.7			7.7	3.5					192
13-8.6			8.6						190
13-9.6			9.6	4.0					185
13-10	40	25	10.5	5.0	4.0	16°		1.5	418
13-11			11.5						412
13-12			12.5						405
13-13			13.5						400
13-14			14.5						395
13-15			15.5						390
13-16	50	28	16.5	5.5	4.5				708
13-17			17.5						685
13-18			18.5						660
13-19			19.5						650
13-20			20.5	6.0					650
13-21			21.5						625
13-22			22.5						620
13-23			23.5						600
13-24			24.5						580
13-25	60	35	25.5	7.0	6.0	18°	6.0		1145
13-26			26.5						1120
13-27			27.5						1080
13-28			28.5						1060
13-29			29.5	7.5					1020
13-30			30.5						1020
13-31			31.5						980
13-32			32.5						955
13-33			33.5						930
13-34			34.5						890

Type	(mm) Basal dimension			(mm) Referenced dimension					(g) Approx unit weight
	D	H	d	h	h_1	α	R	e	YG8
13-35	75	35	35.5	8.0	6.0	18°	6.0	1.5	1716
13-36			36.5						1696
13-37			37.5						1667
13-38			38.5						1637
13-39			39.5						1598
13-40			40.5						1600
13-41			41.5						1539
13-42			42.5						1540
13-43			43.5						1480
13-45	90		45.0	9.0		20°			2431
13-47			47.0						2353
13-49			49.0						2284
13-51			51.0						2196
13-53			53.0						2108
13-55			55.0	10.0				2.0	2019
13-57			57.0						1931
13-59	110	40	59.0						3970
13-61			61.5						3823
13-64			64.0	11.0					3676
13-67			67.0						3490
13-69			69.0						3363
13-71	140	50	71.0	12.0					8323
13-74			74.0						8068
13-77			77.0						7794
13-81			81.5						7382
13-84			84.0						7127

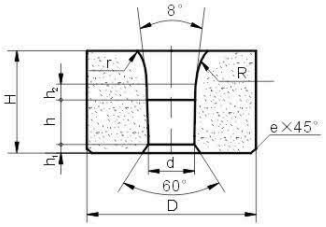
20 Diameter reducing carbide die blank for drawing metal tube



Type	(mm) Basal dimension			(mm) Referenced dimension					(g) Approx unit weight
	D	H	d	h	h_1	h_2	α	e	YG8
20-2	16	14	2	1.0	1.0	2.5	6°	1.0	41
20-3			3	1.5		3.5			40
20-4	22	18	4	2.0		4.5			99
20-5	30	22	5	3.0	2.0	7.0		1.2	205
20-6			6						194
20-7			7						198
20-8			8						194
20-9	35	25	9						332
20-10			10						326
20-11			11						320
20-12	40	28	12					1.5	468
20-13			13						460
20-14			14						450
20-15	45	30	15						623
20-16			16						610
20-17			17						592
20-18	50	32	18						795
20-19			19			8.0			779
20-20			20						766
20-21			21						750
20-22	55	32	22						942
20-23			23						923
20-24			24						895
20-25			25						884
20-26	60	34	26						1118
20-27			27						1113
20-28			28						1082
20-29	65	36	29						1407
20-30			30						1360
20-31			31						1342
20-33	75	42	33	5.0	3.0	10.0		2.0	2190

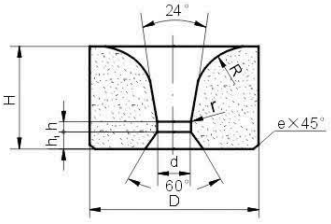
Type	(mm) Basal dimension			(mm) Referenced dimension					(g) Approx unit weight
	D	H	d	h	h_1	h_2	α	e	YG8
20-35	75	42	35	5.0	3.0	10.0	6°	2.0	2130
20-37	85	45	37						2940
20-39			39						2860
20-41	95	48	41						3900
20-43			43						3810
20-45			45						3710
20-47	100	52	47	7.0	4.0	12.0			4610
20-51			51						4360
20-56	110		56						5240
20-60			60						4890

21 Drawing die blank for non-ferrous metal wire and rod



Type	(mm) Basal dimension			(mm) Referenced dimension						(g) Approx unit weight
	D	H	d	h	h_1	h_2	R	r	e	YG8
21-20	50	35	20	17.0	3.0	6.0	1.5	3.0	1.5	830
21-22			22							795
21-24			24							760
21-26	60		26							1115
21-28			28							1090
21-30			30							1065
21-32	70	45	32	20.0		8.0	40	5.0	2.0	2039
21-34			34							1980
21-36			36							1902
21-38			38							1824
21-40			40							1735
21-42	80		42							2451
21-44			44							2353
21-46			46							2265
21-48	90		48						2.5	3059
21-50			50							2951
21-54			54							2735
21-58	100		58							3480
21-62			62							3255

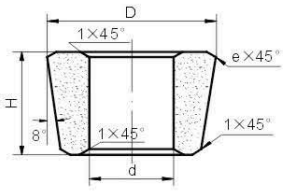
22 Drawing die blank for non-ferrous metal tube



Type	(mm) Basal dimension			(mm) Referenced dimension					(g) Approx unit weight
	D	H	d	h	h_1	R	r	e	YG8
22-2.8	20	13	2.8	1.5	3.0	3.0	1.0	1.0	55
22-3.8			3.8						53
22-4.7			4.7						51
22-5.7			5.7						50
22-6.7	30	18	6.7	2.0	3.0	4.0	1.5	1.2	167
22-7.6			7.6						163
22-8.6			8.6						158
22-9.6			9.6						157
22-10			10.5						152
22-11			11.5						145
22-12	45	24	12.5	3.0	4.5	5.0			512
22-13			13.5						503
22-14			14.5						467
22-15			15.5						450
22-16			16.5						444
22-17			17.5						435
22-18			18.5						426
22-19			19.5						414
22-20			20.5						402
22-21			21.5						390
22-22			22.5						376
22-23			23.5						365
22-24	60	30	24.5	3.5	5.0	6.0	2.0	1.5	1013
22-25			25.5						993
22-26			26.5						910
22-27			27.5						910
22-28			28.5						885
22-29			29.5						850
22-30			30.0						838
22-31			31.5						818

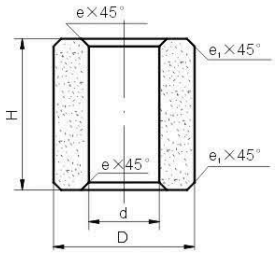
Type	(mm) Basal dimension			(mm) Referenced dimension					(g) Approx unit weight
	D	H	d	h	h_1	R	r	e	YG8
22-32	60	30	32.5	3.5	5.0	6.0	2.0	1.5	795
22-33			33.5						775
22-34	80	35	34.5	5.0	5.0	10.0			2050
22-35			35.5						2030
22-36			36.5						1990
22-37			37.5						1922
22-38			38.5						1892
22-39			39.5						1863
22-41			41.5						1794
22-44			44.5						1696
22-47			47.0						1598
22-49	90	40	49.0	6.5			2.5	2.0	2480
22-52			52.0						2343
22-55	100		55.0						3088
22-57			57.0						2970
22-59	120	45	59.0						5451
22-62			62.0						5255
22-64			64.0						5117
22-67			67.0						4902
22-69	130	50	69.0						6617
22-72			72.0						6373
22-74			74.0						6176
22-77			77.0						5882
22-79	140		79.0						7274
22-84			84.0						6765
22-88			88.0						6333

30 Drawing die blank for tube floating plug



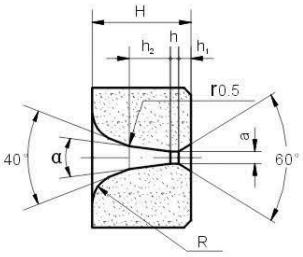
Type	(mm) Basal dimension			(mm) Referenced dimension	(g) Approx unit weight	Type	(mm) Basal dimension			(mm) Referenced dimension	(g) Approx unit weight
	D	H	d	e	YG8		D	H	d	e	YG8
30-28	28.0	27	15	2.0	121	**30-47**	47.0	32	25	4.0	468
30-29	29.2				148	**30-48**	48.0				489
30-30	30.4				174	**30-49**	49.0				535
30-31	31.6				190	**30-50**	50.0				565
30-32	32.2				202	**30-51**	51.0				616
30-33	33.4				222	**30-52**	52.0				660
30-34	34.0		17		214	**30-53**	53.0				690
30-35	35.2				231	**30-54**	54.0		28		668
30-36	36.4				263	**30-55**	55.0				710
30-37	37.0		19		252	**30-56**	56.0				740
30-38	38.2				268	**30-57**	57.0				755
30-39	39.4				304	**30-58**	58.0	35			870
30-40	40.0		21	3.0	295	**30-59**	59.0				900
30-41	41.0				315	**30-60**	60.0				960
30-42	42.0				338	**30-61**	61.0				995
30-43	43.0				370	**30-62**	62.0				1070
30-44	44.0	32	23		408	**30-63**	63.0				1110
30-45	45.0				437	**30-64**	64.0				1145
30-46	46.0				468						

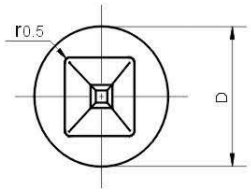
31 Drawing die blank for tube floating plug



Type	(mm) Basal dimension			(mm) Referenced dimension		(g) Approx unit weight	Type	(mm) Basal dimension			(mm) Referenced dimension		(g) Approx unit weight
	D	H	d	e_1	e	YG8		D	H	d	e_1	e	YG8
31-14	14	25	7	1.0	0.5	45	**31-31**	31	35	16.0	2.0	0.5	300
31-15	15					53	**31-32**	32					332
31-16	16					63	**31-33**	33		20.0			298
31-17	17		8			68	**31-34**	34					328
31-18	18					78	**31-35**	35					352
31-19	19	30	10			95	**31-36**	36					388
31-20	20					108	**31-37**	37					416
31-21	21					122	**31-38**	38					448
31-22	22					138	**31-39**	39				1.0	480
31-23	23		12			140	**31-40**	40					514
31-24	24					155	**31-41**	41					535
31-25	25					173	**31-42**	42					560
31-26	26					198	**31-43**	43	40	22.0			655
31-27	27					215	**31-44**	44					695
31-28	28	35	16			225	**31-45**	45	45	26.4			710
31-29	29					252	**31-46**	46					765
31-30	30					280	**31-47**	47					800

40 Drawing die blank for square rod

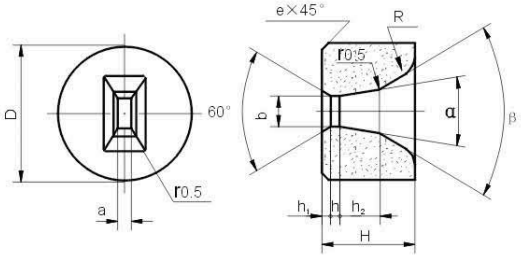




Type	(mm) Basal dimension			(mm) Referenced dimension						(g) Approx unit weight
	D	H	d	h	h_1	h_2	R	α	e	YG8
40-1.8	16	12	1.8	1.0	1.5	5.0	1.5	14°	1.0	33
40-2.4			2.4							33
40-2.8	22	18	2.8	1.5	2.0	7.0	2.0		1.2	90
40-3.2			3.2							93
40-3.6			3.6							92
40-4.0			4.0							90
40-4.6	30	21	4.6	2.0		11.0	3.0			200
40-5.0			5.0							200
40-5.7			5.7							200
40-6.7			6.7							195
40-7.7	35	25	7.7	3.0	3.0	13.0			1.5	310
40-8.7			8.7							313
40-9.7			9.7							304
40-10	45		10.7	3.5			4.0			535
40-11			11.7							515
40-12			12.7							500
40-13			13.7							495
40-14			14.7							490
40-15	50	28	15.7	4.0		14.0				665
40-16			16.7							660
40-17			17.7							640
40-18			18.7							640

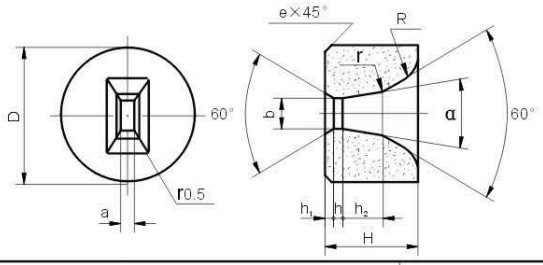
Type	(mm) Basal dimension			(mm) Referenced dimension						(g) Approx unit weight
	D	H	d	h	h_1	h_2	R	α	e	YG8
40-19	60	30	19.7	5.0	4.0	14.0	4.0	16°	1.5	1066
40-20			20.7							1035
40-21			21.7							1025
40-22			22.7							1000
40-23			23.7							980
40-24	65	32	24.7	6.0	5.0		5.0			1284
40-25			25.5							1255
40-26			26.5							1235
40-27			27.5							1215
40-28	70	35	28.5	8.0	6.0	16.0			2.0	1539
40-29			29.5							1510
40-30			30.50							1480
40-31			31.5							1441
40-32	80		32.5							2009
40-33			33.5							1980
40-34			34.5							1941
40-35			35.5							1902
40-36			36.5							1873
40-37			37.5							1833
40-38	90	40	38.5				6.0	20°		2843
40-39			39.5							2814
40-40			40.5							2730
40-41			41.5							2706
40-42	100		42.5							3580
40-44			44.5							3441
40-47			47.5							3374
40-49	120	45	49.5							5892
40-51			51.5							5617
40-53			53.5							5480

41 Drawing die blank for rectangle non-ferrous rod



Type	(mm) Basal dimension				(mm) Referenced dimension							(g) Approx unit weight
	D	H	b	a	h	h_1	h_2	R	α	β	e	YG8
41-6.7×4.7	30	21	6.7	4.7	2.0	2.0	11.0				1.2	200
41-7.7×5.7			7.7	5.7								334
41-7.7×6.7				6.7								329
41-8.7×2.7			8.7	2.7				3.0				340
41-9.7×3.7	35			3.7	3.0							331
41-9.7×5.7		25	9.7	5.7			13.0					316
41-9.7×6.7				6.7								309
41-9.7×7.7				7.7								302
41-11×7.7	45		11.7	7.7	3.5							525
41-11×9.7				9.7		3.0						506
41-13×6.7			13.7	6.7								741
41-13×8.7				8.7								720
41-15×7.7			15.6	7.7								717
41-15×9.7	50	28		9.7	4.0				14°	40°	1.5	691
41-15×11				11.7								665
41-15×12				12.7								652
41-17×10			17.6	10.7								630
41-17×15				15.7				4.0				586
41-19×7.7			19.6	7.7			14.0					1126
41-19×9.7				9.7								1092
41-19×11				11.7								1060
41-19×14				14.7								1050
41-21×9.2	60	30	21.6	9.2	5.0	4.0						1114
41-21×11				11.7								1040
41-21×14				14.2								1022
41-23×11			23.6	11.7								1014
41-23×14				14.7								950

42 Drawing die blank for non-ferrous metal strips

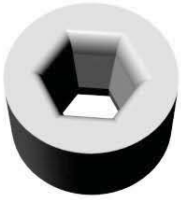


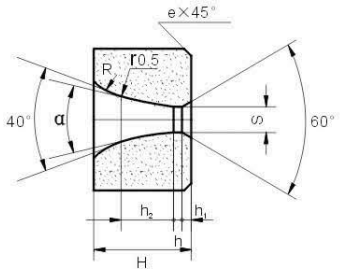
Type	(mm) Basal dimension				(mm) Referenced dimension							(g) Approx unit weight
	D	H	b	a	h	h_1	h_2	R	α	r	e	YG8
42-1.9×1.0	20	12	1.9	1.0	2.0	2.0	4.0	3.0	18°	0.5	1.0	50
42-1.9×1.4				1.4						0.6		51
42-2.4×1.0			2.4	1.0						0.5		50
42-2.4×1.4				1.4						0.6		51
42-3.1×1.0			3.1	1.0						0.5		51
42-3.1×1.4				1.4						0.6		50
42-3.1×1.9				1.9						0.6		50
42-3.9×1.0	25	15	3.9	1.0	2.5	2.5	5.0			0.5	1.2	102
42-3.9×1.5				1.5						0.6		100
42-3.9×1.9				1.9						0.6		100
42-3.9×2.4				2.4						0.8		99
42-4.5×1.1			4.5	1.1						0.5		100
42-4.5×1.5				1.5						0.6		99
42-4.5×1.9				1.9						0.6		99
42-4.5×2.4				2.4						0.8		99
42-4.5×2.8				2.8						0.8		98
42-5.3×1.1			5.3	1.1						0.5		98
42-5.3×1.5				1.5						0.6		98
42-5.3×1.9				1.9						0.6		98
42-5.3×2.3				2.3						0.8		97
42-5.3×3.1				3.1						0.8		97
42-5.3×3.9				3.9						1.0		96
42-6.2×1.1			6.2	1.1						0.5		97
42-6.2×1.5				1.5						0.6		96
42-6.2×1.9				1.9						0.6		96
42-6.2×2.4				2.4						0.8		97
42-6.2×3.1				3.1						0.8		97
42-6.2×3.9				3.9						0.8		94
42-7.2×1.1	35	18	7.2	1.1			6.0	4.0		0.5		235
42-7.2×1.5				1.5						0.6		234
42-7.2×1.9				1.9						0.6		235
42-7.2×2.4				2.4						0.8		235
42-7.2×3.1				3.1						0.8		232
42-7.2×3.9				3.9						1.0		232
42-7.2×4.9				4.9						1.0		228
42-8.4×1.2			8.4	1.2						0.5		238
42-8.4×1.5				1.5						0.6		235
42-8.4×1.9				1.9						0.6		240
42-8.4×2.4				2.4						0.8		231
42-8.4×3.1				3.1						0.8		230
42-8.4×3.9				3.9						1.0		225

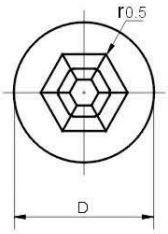
Type	(mm) Basal dimension				(mm) Referenced dimension							(g) Approx unit weight
	D	H	b	a	h	h_1	h_2	R	α	r	e	YG8
42-8.4×4.9	35	18	8.4	4.9	2.5	2.5	6.0	4.0	18°	1.0	1.2	230
42-9.1×1.0			9.1	1.0						0.5		231
42-9.1×1.7				1.7						0.6		238
42-9.1×2.0				2.0						0.6		237
42-9.1×2.4				2.4						0.8		235
42-9.1×3.0				3.0						0.8		234
42-9.1×3.8				3.8						1.0		223
42-9.1×4.9				4.9						1.0		225
42-9.8×1.2			9.8	1.2						0.5		235
42-9.8×1.8				1.8						0.6		230
42-9.8×2.3				2.3						0.8		230
42-9.8×3.1				3.1						0.8		230
42-9.8×4.9				4.9						1.0		227
42-9.8×6.3				6.3						1.2		225
42-10×1.0			10.8	1.0						0.5		239
42-10×1.5				1.5						0.6		237
42-10×1.9				1.9						0.6		236
42-10×2.4				2.4						0.8		235
42-10×2.9				2.9						0.8		232
42-10×3.8				3.8						1.0		228
42-11×1.1			11.4	1.1						0.5		235
42-11×1.5				1.5						0.6		233
42-11×1.9				1.9						0.6		232
42-11×2.4				2.4						0.8		228
42-11×3.1				3.1						0.8		230
42-11×3.9				3.9						1.0		224
42-11×4.9				4.9						1.0		223
42-11×6.3				6.3						1.2		218
42-12×1.4	45	20	12.8	1.4	3.0	3.0				0.6	1.5	424
42-12×1.9				1.9						0.6		442
42-12×2.6				2.6						0.8		435
42-12×3.4				3.4						0.8		433
42-12×4.1				4.1						1.0		430
42-12×4.9				4.9						1.0		426
42-12×5.9				5.9						1.0		422
42-14×1.6			14.6	1.6						0.6		437
42-14×2.1				2.1						0.6		434
42-14×2.8				2.8						0.8		431
42-14×3.4				3.4						0.8		428
42-14×4.1				4.1						1.0		422
42-14×4.9				4.9						1.0		420
42-14×5.9				5.9						1.0		412
42-16×1.9	50		16.5	1.9						0.6		570
42-16×2.4				2.4						0.8		555
42-16×3.1				3.1						0.8		538
42-16×3.9				3.9						1.0		532
42-16×4.9				4.9						1.0		515
42-16×6.3				6.3						1.2		512
42-17×1.0			17.6	1.0						0.5		535
42-17×1.5				1.5						0.6		548
42-17×2.1				2.1						0.6		542
42-17×2.8				2.8						0.8		541

Type	(mm) Basal dimension				(mm) Referenced dimension							(g) Approx unit weight
	D	H	b	a	h	h_1	h_2	R	α	r	e	YG8
42-17×3.4	50	20	17.6	3.4	3.0	3.0	6.0	4.0	18°	0.8	1.5	520
42-17×4.1				4.1						1.0		516
42-17×4.9				4.9						1.0		520
42-17×5.9				5.9						1.0		513
42-19×1.0			19.2	1.0						0.5		546
42-19×1.5				1.5						0.6		543
42-19×2.0				2.0						0.6		550
42-19×2.8				2.8						0.8		525
42-19×3.9				3.9						1.0		520
42-19×4.9				4.9						1.0		520
42-19×5.9				5.9						1.0		514
42-20×2.1			20.8	2.1				5.0		0.6		540
42-20×2.8				2.8						0.8		537
42-20×3.4				3.4						0.8		527
42-20×4.1				4.1						1.0		526
42-20×4.9				4.9						1.0		525
42-20×5.9				5.9						1.0		513
42-23×1.0			23.2	1.0						0.5		541
42-23×1.4				1.4						0.6		538
42-23×1.9				1.9						0.6		534
42-23×2.4				2.4						0.8		531
42-23×3.0				3.0						0.8		529
42-23×3.8				3.8						1.0		520
42-23×4.9				4.9						1.0		509
42-23×5.9				5.9						1.0		507
42-24×1.0	60		24.5	1.0						0.5		793
42-24×1.4				1.4						0.6		790
42-24×2.6				2.6						0.8		790
42-24×3.3				3.3						0.8		765
42-24×3.8				3.8						1.0		772
42-27×1.4			27	1.4						0.6		792
42-27×1.9				1.9						0.6		782
42-27×2.4				2.4						0.8		780
42-27×3.0				3.0						0.8		773
42-31×1.5			31	1.5						0.6		782
42-31×3.0				3.0						0.8		764
42-31×3.8				3.8						1.0		755

60 Drawing die blank for hexagonal ferrous metal bars



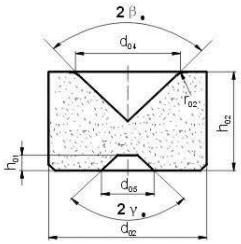




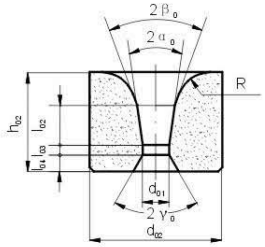
Type	(mm) Basal dimension			(mm) Referenced dimension						(g) Approx unit weight
	D	H	S	h	h_1	h_2	R	α	e	YG8
60-2.5	30	21	2.5	1.5	2.00	10.0	3.0	14°	1.2	212
60-3.0			3.0							210
60-4.0			4.0							208
60-4.7			4.7	2.0		10.5				200
60-5.7			5.7							195
60-6.7			6.7							195
60-7.7			7.7							191
60-8.6	35		8.6	3.0	3.0	11.0				266
60-9.6			9.6							258
60-10			10.6							258
60-11	40	25	11.5	3.5		12.5	4.0		1.5	410
60-12			12.5							395
60-13	45		13.5	4.0		13.0				495
60-14			14.5							480
60-15			15.5							470
60-16			16.5							450
60-17			17.5							440
60-18			18.5							457
60-19	55	28	19.5	5.0	4.0	14.0	5.0			800
60-20			20.5							781
60-21			21.5							780
60-22			22.5							776
60-23			23.5							750
60-24	65	30	24.5	6.0	4.5			16°		1198
60-25			25.5							1178
60-26			26.5							1153
60-27			27.5							1133
60-28			28.5							1113

Type	(mm) Basal dimension			(mm) Referenced dimension						(g) Approx unit weight
	D	H	S	h	h_1	h_2	R	α	e	YG8
60-29	75	35	29.5	7.0	5.0	15.0	6.0	16°	2.0	1863
60-30			30.5							1843
60-31			31.3							1823
60-32			32.3							1803
60-33			33.3							1774
60-34			34.3							1735
60-35			35.3							1706
60-36			36.3							1666
60-37			37.3							1637
60-38	90		38.3							2680
60-39			39.3							2640
60-40			40.0							2600
60-41			41.0							2580
60-42			42.0							2540
60-44			44.0							2382
60-47			47.0							2265
60-49			49.0							2186
60-52	100	40	52.0	8.0	6.0	16.0				3255
60-54			54.0							3078
60-57			57.5							2872
60-59	120	42	59.5							5117
60-61			61.5							4951
60-64			64.5							4755
60-67			67.5							4519
60-70			70.5							4500
60-74			74.5							3960

A Drawing die blank for ferrous metal wires



Type	(mm) Basal dimension			(mm) Referenced dimension				
	d_{02}	h_{02}	d_{01}	d_{04}	d_{05}	R_{02}	$2\beta_0$	$2\gamma_0$
A08-00	8	4	——	4.2	2.2	1.5	90°	90°
A10-00	10	8		7.6	4.2			



(A型 、B型图)

A Drawing die blank for ferrous metal wires

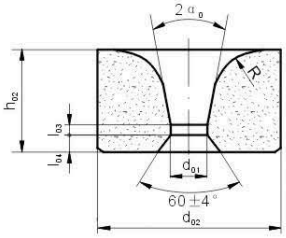
Type	(mm) Basal dimension			(mm) Referenced dimension						
	d_{02}	h_{02}	d_{01}	l_{03}	l_{04}	l_{02}	R	$2\alpha_0$	$2\beta_0$	$2\gamma_0$
A10-0.4	10	8	0.4	0.4	1.6	3.5	1.5	12°	90°	90°
A10-0.6			0.6	0.5	1.8					
A10-0.8			0.8	0.6						
A10-1.0			1.0		1.6	3.3				
A12-0.4	12	10	0.4	0.4	2.0	5.0	1.8			
A12-0.8			0.8	0.6						
A12-1.0			1.0	0.7	1.8	4.8				
A12-1.4			1.4	1.0						

Type	(mm) Basal dimension			(mm) Referenced dimension						
	d_{02}	h_{02}	d_{01}	l_{03}	l_{04}	l_{02}	R	$2\alpha_0$	$2\beta_0$	$2\gamma_0$
A14-0.6	14	12	0.6	0.5	2.0	5.0	2.2	12°	60°	75°
A14-0.8			0.8	0.6						
A14-1.0			1.0	0.7						
A14-1.3			1.3	1.0						
A14-1.8			1.8	1.2						
A14-2.3			2.3	1.3				14°		
A16-0.8	16	13	0.8	0.6	2.5	4.5	3.0	12°		
A16-1.0			1.0	0.7						
A16-1.4			1.4	1.0						
A16-1.8			1.8	1.2		4.0				
A16-2.2			2.2	1.3				14°		
A16-2.4			2.4	1.3						
A20-1.0	20	17	1.0	0.7	3.0	5.0	3.7	12°	60°	60°
A20-1.3			1.3	1.0						
A20-1.8			1.8	1.2						
A20-2.3			2.3	1.3		5.6		14°		
A20-2.8			2.8	1.4						
A20-3.3			3.3	1.6		5.4				
A20-3.7			3.7	1.9						
A20-3.8			3.8							
A20-4.2			4.2							
A20-4.7			4.7							
A25-2.3	25	20	2.3	1.3						
A25-2.8			2.8	1.4						
A25-3.3			3.3	1.6	4.0	6.0	5.0			
A25-3.8			3.8	1.9						
A25-4.2			4.2							
A25-4.7			4.7							
A25-5.2			5.2					16°		
A25-5.7			5.7	2.4						
A25-6.2			6.2	2.6						
A28-5.7	28	20	5.7	2.6		7.0				
A28-6.7			6.7	2.8						
A30-3.8	30	24	3.8	2.5	5.0	7.5				
A30-4.2			4.2							
A30-4.7			4.7							
A30-5.2			5.2							
A30-5.7			5.7	2.6		8.0				
A30-6.2			6.2							
A30-6.7			6.7							
A30-7.7			7.7	3.0						
A30-8.7			8.7	3.3						
A30-9.7			9.7	3.5						

B Drawing die blank for non-ferrous metal wires

Type	(mm) Basal dimension			(mm) Referenced dimension						
	d_{02}	h_{02}	d_{01}	l_{03}	l_{04}	l_{02}	R	$2\alpha_0$	$2\beta_0$	$2\gamma_0$
B10-0.4	10	8	0.4	0.4	1.6	3.5	1.5	14°	90°	90°
B10-0.6			0.6	0.6	1.8					
B10-0.8			0.8							
B10-1.0			1.0	0.4	2.0	5.0				
B12-0.4	12	10	0.4							
B12-0.6			0.6							
B12-0.8			0.8	0.6						
B12-1.0			1.0							
B12-1.3			1.3	0.8	1.8	4.8				
B12-1.6			1.6	0.9						
B12-1.8			1.8							
B12-2.0			2.0	1.0						
B12-2.3			2.3							
B14-0.6	14	12	0.6	0.4	2.0	5.0			60°	75°
B14-0.8			0.8	0.6						
B14-1.0			1.0							
B14-1.3			1.3	0.8						
B14-1.8			1.8	0.9						
B14-2.3			2.3	1.0						
B14-2.6			2.6					16°		
B14-2.8			2.8	1.2						
B16-0.8	16	13	0.8	0.6	3.0	4.8	2.5	14°		
B16-1.3			1.3	0.8						
B16-1.8			1.8	0.9						
B16-2.3			2.3	1.0		4.6		16°		
B16-2.8			2.8	1.2						
B16-3.1			3.1							
B16-3.3			3.3	1.4						
B20-1.8	20	17	1.8	0.9	3.0	7.50	3.7			
B20-2.3			2.3	1.0						
B20-2.8			2.8	1.2						
B20-3.3			3.3							
B20-3.5			3.5	1.4		7.0				
B20-3.8			3.8							
B20-4.0			4.0							
B20-4.2			4.2							
B20-4.5			4.5							
B20-4.7			4.7							
B20-5.2			5.2							
B20-5.4			5.4							

Type	(mm) Basal dimension			(mm) Referenced dimension						
	d_{02}	h_{02}	d_{01}	l_{03}	l_{04}	l_{02}	R	$2\alpha_0$	$2\beta_0$	$2\gamma_0$
B20-5.7	20	17	5.7	1.4	3.0	7.0	3.7	16°	60°	75°
B20-6.2			6.2							
B25-3.8	25	20	3.8	1.4	4.0	8.5	4.0	18°		
B25-4.2			4.2							
B25-4.7			4.7	1.6						
B25-5.2			5.2							
B25-5.7			5.7	1.9		7.8				60°
B25-6.2			6.2							
B25-6.5			6.5	2.1						
B25-6.7			6.7							
B25-7.0			7.0							
B25-7.2			7.2							
B30-5.7	30	24	5.7	1.9	5.0	8.5	5.0			
B30-6.2			6.2							
B30-6.7			6.7	2.1						
B30-7.2			7.2							
B30-7.7			7.7	2.2		9.5				
B30-8.2			8.2							
B30-8.7			8.7	2.4						
B30-9.2			9.2							
B30-9.7			9.7							
B30-10			10.7	2.6						



(C Type、D type)

C Drawing dib blank for ferrous metal rods

Type	(mm) Basal dimension			(mm) Referenced dimension			
	d_{02}	h_{02}	d_{01}	l_{03}	l_{04}	R	$2\alpha_0$
C30-10	30	24	10.6	3.5	3.5	3.5	16°
C35-11	35		11.6				
C35-12			12.6				
C35-13			13.6				

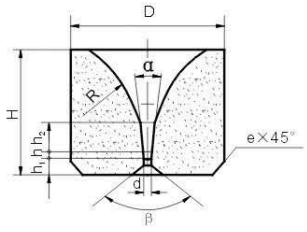
Type	(mm) Basal dimension			(mm) Referenced dimension			
	d_{02}	h_{02}	d_{01}	l_{03}	l_{04}	R	$2\alpha_0$
C40-14	40	24	14.6	4.0	3.5	3.5	16°
C40-15			15.6				
C40-16			16.6				
C45-17	45	25	17.5		4.5	4.0	
C45-18			18.5				
C45-19			19.5				
C50-20	50		20.5	5.0			
C50-21			21.5				
C55-22	55	27	22.5		5.0	4.5	18°
C55-23			23.5				
C55-24			24.5				
C60-25	60		25.5	6.0		5.5	
C60-26			26.5				
C60-27			27.5				
C65-28	65		28.5				
C65-29			29.5				
C65-30			30.5				

D Drawing die blank for non-ferrous metal rods

Type	(mm) Basal dimension			(mm) Referenced dimension			
	d_{02}	h_{02}	d_{01}	l_{03}	l_{04}	R	$2\alpha_0$
D30-9.6	30	24	9.6	3.0	3.5	4.0	18°
D30-10			10.6				
D30-11			11.6				
D35-12	35		12.6				
D35-13			13.6				
D35-14			14.6				
D40-15	40		15.6	3.5			
D40-16			16.6				
D40-17			17.6				
D40-18			18.6				
D45-19	45	25	19.5		4.5	5.0	
D45-20			20.5				
D45-21			21.5				
D45-22			22.5				
D50-23	50		23.5	4.0			
D50-24			24.5				
D50-25			25.5				
D55-26	55	27	26.5		5.0	6.0	20°
D55-27			27.5				

Z11

Drawing die blank for ferrous and non-ferrous metal wire

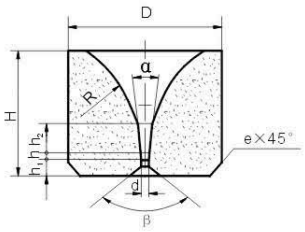


Type	(Mm) Basal dimension			(mm) Referenced dimension						
	D	H	d	h	h_1	h_2	R	α	β	e
Z11-0.4-0.8	8	6	0.4	0.3	0.8	1.5	4.4	14°	75°	0.5
Z11-0.6-0.8			0.6	0.4		1.65	4.0			
Z11-0.8-0.8			0.8	0.6		1.6	3.8			
Z11-1.0-0.8			1.0			1.8	3.5			
Z11-0.6-12	12	10	0.6	0.4	1.2	2.8	7.4			1.0
Z11-0.8-12			0.8	0.6		2.85	7.0			
Z11-1.0-12			1.0			3.0	6.8			
Z11-1.2-12			1.2	0.8				16°		
Z11-1.4-12			1.4			3.2	6.5			
Z11-1.6-12			1.6	1.0		3.5	5.6			
Z11-1.8-12			1.8	1.2			5.3			
Z11-2.0-12			2.0			3.6	5.2			
Z11-2.3-12			2.3	1.4		3.7	4.8			
Z11-0.8-15	15	13	0.8	0.6	1.5	3.6	10.4			1.2
Z11-1.0-15			1.0				10.3			
Z11-1.3-15			1.3	0.8		3.8	9.6			
Z11-1.6-15			1.6	1.2						
Z11-1.8-15			1.8			4.0	8.6			
Z11-2.0-15			2.0							
Z11-2.3-15			2.3	1.3		4.45	7.8			
Z11-2.5-15			2.5			4.6				
Z11-2.8-15			2.8	1.4		4.8	7.2			
Z11-2.3-19	19	17	2.3	1.2	2.5	5.8	9.8			1.5
Z11-2.8-19			2.8			6.0	9.7			
Z11-3.0-19			3.0			5.8				
Z11-3.3-19			3.3	1.4		6.0	9.6			
Z11-3.8-19			3.8	1.6		6.2	9.0			
Z11-4.2-19			4.2	1.8		6.4	8.4			
Z11-4.7-19			4.7			6.5				

Type	(mm) Basal dimension			(mm) Referenced dimension						
	D	H	d	h	h_1	h_2	R	α	β	e
Z11-5.2-19	19	17	5.2	2.0	2.5	6.6	8.1	16°	75°	1.5
Z11-5.7-19			5.7			6.8	8.0			
Z11-5.2-21	21		5.2			6.6	8.1			
Z11-5.7-21			5.7			6.8	8.0			

Z13

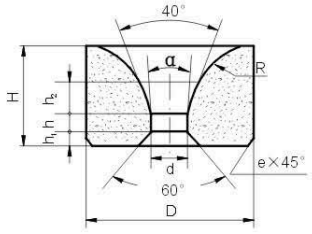
Drawing die blank for ferrous and non-ferrous metal rod



Type	(mm) Basal dimension			(mm) Referenced dimension						
	D	H	d	h	h_1	h_2	R	α	β	e
Z13-3.7-28	28	20	3.7	1.6	3.0	6.8	10.5	18°	60°	2.0
Z13-4.7-28			4.7	1.8		7.4	10.0			
Z13-5.2-28			5.2	2.0		7.2	9.6			
Z13-5.7-28			5.7	2.5		7.3	8.7			
Z13-6.2-28			6.2			7.35				
Z13-6.7-28			6.7	2.6		7.45	8.5			
Z13-7.0-28			7.0	2.8		7.7	7.9			
Z13-7.7-28			7.7	3.0		7.8	7.5			
Z13-8.6-28			8.6	3.2		8.0	7.1			
Z13-9.0-28			9.0	3.5		8.2	6.4			
Z13-9.6-28			9.6			8.4	6.2			
Z13-10-33	33	23	10.5	3.7	4.0	8.6	8.3			
Z13-11-33			11.5	3.8		8.8				
Z13-12-33			12.5			9.0	8.5			
Z13-13-38	38	24	13.5	4.0		9.2	8.7			
Z13-14-38			14.5	4.2		9.4	8.6			
Z13-15-38			15.5	4.3		9.6	8.8			

S11

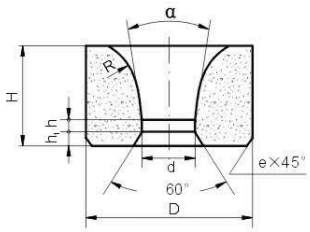
Drawing die blank for ferrous and non-ferrous metal wire



Type	(mm) Basal dimension			(mm) Referenced dimension				
	D	H	d	h	h_1	h_2	R	α °
S11-0.3	8	6	0.3	0.3	1.0	1.2	2	12°
S11-0.4			0.4	0.3		1.2		
S11-0.6			0.6	0.4		1.4		
S11-0.8			0.8	0.6		1.8		
S11-1.0			1.0					
S11-0.4-13	13	10	0.4	0.3	1.2	2.0	4	14°
S11-0.6-13			0.6	0.4				
S11-0.8-13			0.8	0.6		2.5		
S11-1.0-13			1.0			3.0		
S11-1.6			1.6	1.0		3.5		16°
S11-1.8			1.8	1.2				
S11-2.0			2.0					
S11-2.3			2.3	1.4				
S11-0.4-16	16	14	0.4	0.3	1.5	4.0	5	
S11-0.6-16			0.6	0.4				
S11-0.8-16			0.8	0.6				
S11-1.0-16			1.0					
S11-1.3-16			1.3	0.8				
S11-1.8-16			1.8	1.2				
S11-2.3			2.3	1.4				
S11-2.8			2.8					
S11-1.8-22	22	18	1.8	1.2	2.5	6.0		18°
S11-2.3-22			2.3	1.4				
S11-2.8-22			2.8					
S11-3.3			3.3	1.6				
S11-3.8			3.8					
S11-4.2			4.2	1.8				
S11-4.7			4.7					
S11-5.2			5.2	2.0				
S11-5.7			5.7					

S13

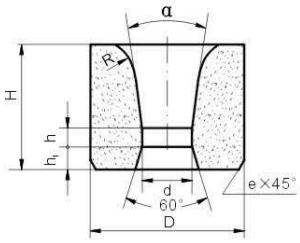
Drawing die blank for ferrous and non-ferrous metal rod



Type	(mm) Basal dimension			(mm) Referenced dimension			
	D	H	d	h	h_1	R	α °
S13-5.7	30	21	5.7	2.5	3.0	7	18°
S13-6.7			6.7				
S13-7.7			7.7	3.5			
S13-8.6			8.6				
S13-9.6			9.6	4.0			
S13-10	40	25	10.5		4.0		
S13-11			11.5				
S13-12			12.5				
S13-13			13.5				
S13-14			14.5	4.5			
S13-15			15.5				
S13-16	50	28	16.5	5.5	4.5		
S13-17			17.5				
S13-18			18.5				
S13-19			19.5				
S13-20			20.5	6.0			
S13-21			21.5				
S13-22			22.5				
S13-23			23.5				
S13-24	60	35	24.5		5.5	8	20°
S13-25			25.5				
S13-26			26.5				
S13-27			27.5				
S13-28			28.5				
S13-29	65		29.5				
S13-30			30.5				
S13-31			31.5				
S13-32			32.5				
S13-33			33.5				

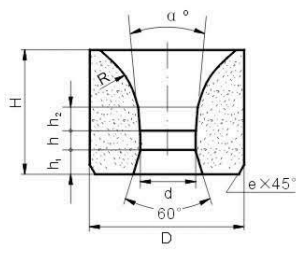
Type	(mm) Basal dimension			(mm) Referenced dimension			
	D	H	d	h	h_1	R	α °
S13-34	75	35	34.5	5.5	8.0	8.0	20°
S13-35			35.5				
S13-36			36.5				
S13-37			37.5				
S13-38			38.5	7.0			
S13-39			39.5				
S13-40			40.5				
S13-41-80	80		41.5	8.0	6.0		
S13-42-80			42.5				
S13-43-80			43.5				
S13-44-80			44.5				
S13-45-80			45.5				
S13-41	85		41.5				
S13-42			42.5				
S13-43			43.5				
S13-44			44.5				
S13-45			45.0				
S13-47-90	90		47.0				
S13-49-90			49.0				
S13-51-90			51.0				
S13-53-95	95		53.0	8.5			
S13-55-95			55.0				
S13-57-95			57.0				
S13-47	100		47.0				
S13-49			49.0				
S13-51			51.0				
S13-53			53.0				
S13-55			55.0				
S13-57			57.0				

Drawing die blank for ferrous and non-ferrous metal rod



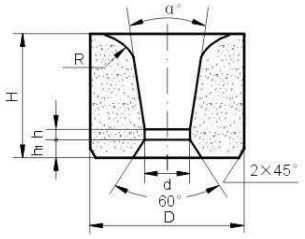
Type	(mm) Basal dimension			(mm) Referenced dimension			
	D	d	H	h	h_1	R	α °
LZ-98027	28	5.2	20	2.5	3.0	6.0	18
LZ-01013	22	5.7	16	1.8	2.0	5.5	
LZ-98034	40	9.8	25	5.0	4.0	5.0	16
LZ-98023	38	10.5	24	3.7		8.5	18
LZ-98024		11.5		3.8			
LZ-98025		12.5					20
LZ-98028	47	16.5	27	5.0	4.5	7.5	
LZ-98029		17.5					
LZ-98030		18.5					
LZ-98031		19.5					
LZ-98032		20.5					
LZ-01063	50	21.0	28	6.0		5.0	18
LZ-98033	47	21.5	27	5.0		7.5	20

Drawing die blank for ferrous and non-ferrous metal rod



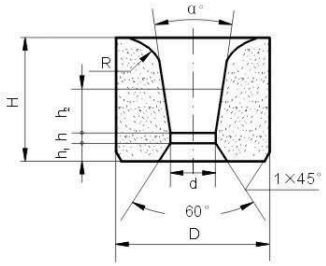
Type	(mm) Basal dimension			(mm) Referenced dimension				
	D	d	H	h	h_1	h_2	R	α °
LZ-00019	12	0.6	9	0.4	1.0	2.0	7.0	10
LZ-00020		0.8		0.6		2.2	6.5	
LZ-00021		1.0		0.7		2.5	5.7	
LZ-00022		1.3		1.0			5.4	

Drawing die blank for ferrous and non-ferrous metal rod



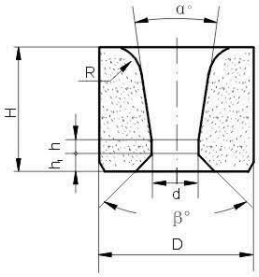
Type	(mm) Basal dimension			(mm) Referenced dimension			
	D	d	H	h	h_1	R	α °
LZ-99100	28	5.7	20	2.5	3.0	7.0	20
LZ-99099		6.2		2.5			
LZ-99098		6.7		2.6			
LZ-99097		7.7		3.0			
LZ-99096		8.6		3.2			
LZ-99095		9.0		3.5			
LZ-99094		9.6		3.5			
LZ-99093	38	10.5	24	3.7	4.0	8.3	
LZ-99092		11.5		3.8			
LZ-99091		12.5		3.8		8.5	
LZ-99090		13.5		4.0		8.6	
LZ-99089		14.5		4.0		8.7	
LZ-99088		15.5		4.3		8.8	
LZ-01012	48	17.1	27	5.0	4.8	7.5	
LZ-01011		18.1					
LZ-01010		19.1					
LZ-01009		20.1					
LZ-01008		21.1					
LZ-01007		22.1					
LZ-01006		23.1					
LZ-01005		24.1					
LZ-01004	50.5	24.5	28	6.0	5.0	7.0	18

Drawing die blank for ferrous and non-ferrous metal rod



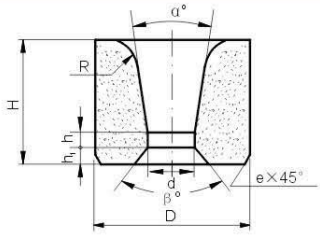
Type	(mm) Basal dimension			(mm) Referenced dimension			
	D	d	H	h	h_1	h_2	α °
LZ-89024	16	1.3	10	0.7	2.0	3.0	16
LZ-89025		1.8		0.8			
LZ-89026		2.3		1.0			
LZ-89027		2.8		1.2			
LZ-89028	22	4.2	14	1.6	3.5	4.0	18

Drawing die blank for ferrous and non-ferrous metal rod



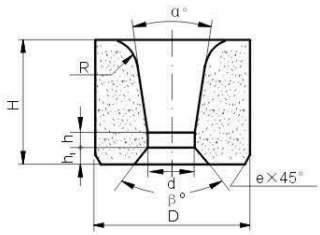
Type	(Mm) Basal dimension			(mm) Referenced dimension			
	D	d	H	h	h_1	α °	β °
LZ-01018	16.5	5.6	8.5	1.0	1.0	15	45
LZ-01019		6.65					
LZ-01020		7.65					30

Drawing die blank for ferrous and non-ferrous metal wire



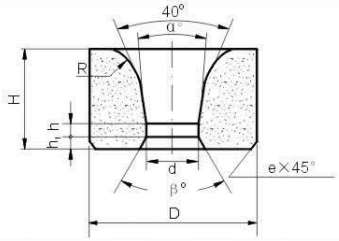
Type	(mm) Basal dimension			(mm) Referenced dimension				
	D	d	H	h	h_1	R	α °	β °
LZ-00028	12	0.8	10	0.4	1.2	7.0	14	75
LZ-00029		1.0						
LZ-00030		1.2		0.6				
LZ-00031	19	1.5	16	1.0	2.0	10.4	12	
LZ-00032		1.8		1.1				
LZ-00033		2.0		1.2		9.8	14	
LZ-00034		2.3		1.3				
LZ-00035		2.8		1.4		9.7		
LZ-01017	20	1.05	14	1.0	2.5	9.4		

Drawing die blank for ferrous and non-ferrous metal wire



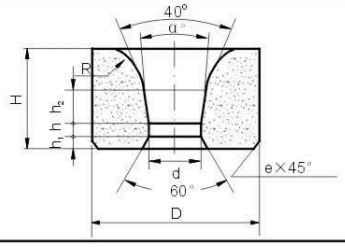
Type	(mm) Basal dimension			(mm) Referenced dimension				
	D	d	H	h	h_1	R	α °	β °
LZ-98006	15	0.6	13	0.5	1.5	9.0	14	75
LZ-98007		1.6		1.2		8.0	16	
LZ-98008	19	1.8	17		2.5	10.0		
LZ-98009		2.0						
LZ-98010	20	5.7		2.0		8.0		
LZ-98011		5.2				8.1		
LZ-98012		4.7		1.8		8.4		
LZ-98013		3.8		1.6		9.0		
LZ-98014		3.3		1.4		9.6		
LZ-98015		2.8				9.8		
LZ-98016		2.3		1.2		9.7		
LZ-98017		2.0				10.0		
LZ-98018		1.8						
LZ-98004		4.2		1.8		8.6		

Drawing die blank for ferrous and non-ferrous metal wire



Type	(mm) Basal dimension			(mm) Referenced dimension			
	D	d	H	h	h1	α °	β °
LZ-89012	8	0.5	6	0.4	1.0	10	60
LZ-95001	12	0.6	9	0.6	1.0		
LZ-95002		0.8		0.7			
LZ-95003		1.0		1.0			
LZ-95004		1.3					
LZ-89013	13	0.75	10	0.6	1.2	11	
LZ-89014		1.1		0.8			
LZ-97008	15	0.6	13	1.0	2.2	10	
LZ-97007		0.8					
LZ-97006		1.0					
LZ-89011	16	1.5	14	1.4	1.5	12	
LZ-89010		2.0					
LZ-89009	22	3.5	18	1.8	2.5	14	
LZ-89008		4.9		2.4			
LZ-89007		6.1	20	2.8			

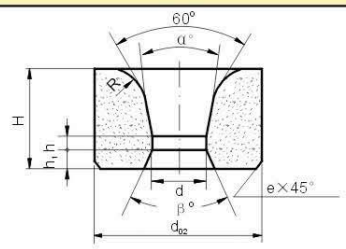
Drawing die blank for ferrous and non-ferrous metal rod



Type	(mm) Basal dimension			(mm) Referenced dimension			
	D	d	H	h	h1	h2	α °
LZ-84007	13	0.6	10	0.4	1.2	2.2	16
LZ-84008		0.8		0.6		2.5	
LZ-84009		1.0		0.7		3.0	
LZ-84010		1.3		1.0			
LZ-84011		1.6		1.1			
LZ-84012		1.8		1.2		4.0	
LZ-84013		2.0					
LZ-84014		2.3		1.4			
LZ-84015	16	1.8	14	1.2	1.5	4.5	
LZ-84016		2.3		1.4		5.0	
LZ-84017		2.8					

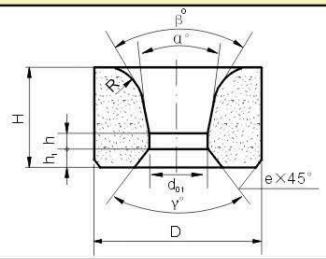
Type	(mm) Basal dimension			(mm) Referenced dimension			
	D	d	H	h	h_1	h_2	α °
LZ-84018	22	2.8	18	1.4	2.5	7.0	18
LZ-84019		3.3		1.8			
LZ-84020		3.8					
LZ-84021		4.2		2.2			
LZ-84022		4.7		2.4			
LZ-84023		5.2		2.6			
LZ-84024		5.7		2.8			
LZ-84025	30	5.7	21	2.5	3.0		20
LZ-84026		6.7					
LZ-84027		7.7		3.5			
LZ-84028		8.6					
LZ-84029		9.6		4.0			
LZ-84030	13	1.1	10	0.7	1.2	3.0	16
LZ-84031	16	2.6	14	1.4	1.5	5.0	
LZ-84032	22	3.1	18	1.5	2.5	7.0	18
LZ-84033		4.0		2.0			
LZ-84034		4.5		2.3			
LZ-84035		5.4		2.6			
LZ-84036	30	6.0	21	2.5	3.0		20
LZ-84037		6.4					
LZ-84038		7.0		3.0			
LZ-84039		8.1		3.5			
LZ-84040		9.0		4.0			
LZ-84041		10.1		4.5	4.0		
LZ-84042		10.9		5.0			
LZ-84043		11.5					

Drawing die blank for ferrous and non-ferrous metal wire



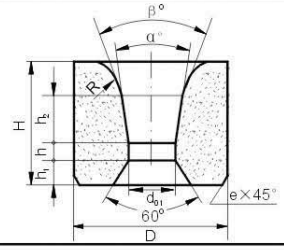
Type	(mm) Basal dimension			(mm) Referenced dimensinon				
	D	d	H	h	h_1	R	α °	β °
LZ-95009	19	1.8	17	1.2	3.0	4.0	12	60
LZ-95008		2.3		1.3			14	
LZ-95007		2.8		1.4		4.5		
LZ-95004		3.3		1.6				
LZ-95005		3.8		1.9				

Drawing die blank for ferrous and non-ferrous metal rod



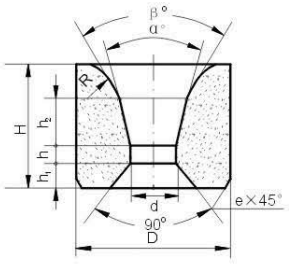
Type	(mm) Basal dimension			(mm) Referenced dimensinon				
	D	d	H	h	h_1	R	α °	γ °
LZ-92016	15	1.3	13	1.0	2.5	3.2	14	75
LZ-92015		1.6		1.1		3.1		
LZ-92014		1.8		1.2		3.0		
LZ-92013		2.0		1.25				
LZ-92012		2.3		1.3		2.9		
LZ-92021	21	5.2	18	2.0	3.0	3.0		60
LZ-92022		5.7						
LZ-92017	28	4.7	20	1.9	3.0	2.0	16	
LZ-92018		5.2						
LZ-92011		7.7		2.9	4.0	3.0		
LZ-92023	29	8.6		2.8				
LZ-92024		9.6						
LZ-93019	35	10.6	24	3.0	3.0	2.0		
LZ-92025	38	10.5		4.0	3.5	3.0	18	
LZ-92026		11.5						
LZ-92027		12.5				3.5		
LZ-92028		13.5						
LZ-92029		14.5						

Drawing die blank for non-ferrous metal wire and rod



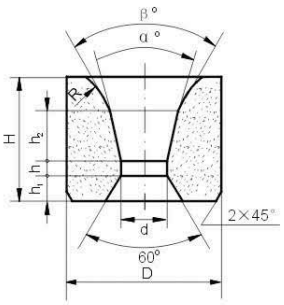
Type	(mm) Basal dimension			(mm) Referenced dimension					
	D	d	H	h	h_1	h_2	R	α °	β °
LZ-95012	8	0.35	6.0	0.3	1.0	1.4	2.0	16	40
LZ-00016	16	2.5	14	1.4	1.5	4.0	5.0		
LZ-00018		3.3		1.5			6.0		
LZ-00024	48	16.5	26	5.5	4.0	8.0	7.0		
LZ-00025		17.5							
LZ-00026		18.5							
LZ-00027		19.5							

Drawing die blank for non-ferrous metal wire and rod



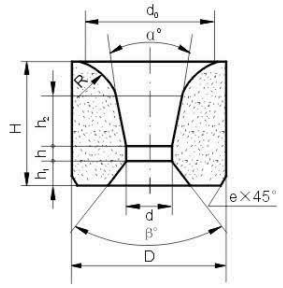
Type	(mm) Basal dimension			(mm) Referenced dimension					
	D	d	H	h	h_1	h_2	R	α °	β °
LZ-89015	16	3.1	10	1.3	2.5	3.0	5.0	16	60
LZ-89016	22	2.8	14	1.2	3.5	3.5	6.0	18	
LZ-89017		3.1		1.3					
LZ-89018		3.3		1.4					
LZ-89019		3.5				4.0			
LZ-89020		3.8							
LZ-89021		4.0		1.5					
LZ-89022	30	6.0	18	2.0	4.5	5.0	7.0	20	
LZ-89023		6.5		2.2		5.5			
LZ-95013		10.5	20	3.3	4.0	7.5	3.0	16	

Drawing die blank for ferrous and non-ferrous metal rod



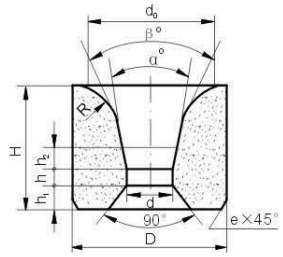
Type	(mm) Basal dimension			(mm) Referenced dimension					
	D	d	H	h	h_1	h_2	R	α °	β °
LZ-92032	28	4.7	20	2.2	8.0	4.0	4.1	16	60
LZ-92031		5.2							
LZ-92030		6.2		2.4	8.2	4.5	4.0		
LZ-92033		7.0		2.3	8.7	5.0	3.0		

Drawing die blank for ferrous and non-ferrous metal wire



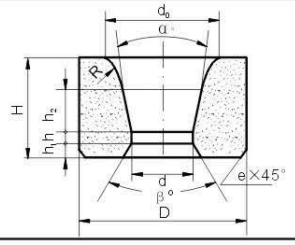
Type	(mm) Basal dimension			(mm) Referenced dimension						
	D	d	d_0	H	h	h_1	h_2	R	α °	β °
LZ-96001	15	1.8	12	10	1.4	3.6	4.0	7.0	14	90
LZ-96002		2.0			1.5	3.5				
LZ-96003		2.3			1.6	3.4		6.0		
LZ-96004		2.5			1.7	3.3		5.5		
LZ-96005		2.8								
LZ-96006		3.1						6.0		
LZ-96007	20	4.1	17	14	2.1	4.4	6.5		16	
LZ-96008		4.4			2.2	4.3				

Drawing die blank for ferrous and non-ferrous metal wire



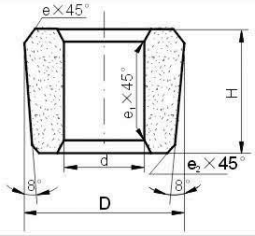
Type	(mm) Basal dimension									
	D	d	d_0	H	h	h_1	h_2	R	α °	β °
LZ-0003	12	0.7	10	8	0.3	1.2	1.0	9.0	14	50
LZ-0004		1.0								
LZ-0005		1.5			0.6					
LZ-0006		2.0								
LZ-0007	15	2.5	15	10	10.8	1.5	1.5	8.0		
LZ-0008		3.0								
LZ-0009		3.5			1.2					
LZ-0010		4.0								
LZ-0011	20	4.5	17	14	1.5	2.0	2.0	9.0		
LZ-0012		5.0								
LZ-0013		5.5			1.7					
LZ-0014		6.0								

Drawing die blank for ferrous and non-ferrous metal wire



Type	(mm) Basal dimension									
	D	d	d_0	H	h	h_1	h_2	R	α°	β°
LZ-87014	30	4.0	13	21	2.0	3.0	6.0	16	15	60
LZ-87015		4.5								
LZ-87016		5.0	14							
LZ-87017		5.5								
LZ-87018		6.0	15		2.5					
LZ-87019		6.5								
LZ-87020		7.0	16							
LZ-87021		7.5								
LZ-87022		8.0	17							
LZ-87023		8.5								
LZ-87024		9.0	18							
LZ-87025		9.5								
LZ-87004		10.0	19		4.0				16	
LZ-87005		10.5								
LZ-87006		11.0	20		4.5					
LZ-87007		11.5								
LZ-87008		12.0	21							
LZ-87009		12.5								
LZ-87010		13.5	22		5.0				17	
LZ-87011		14.0								
LZ-87012		14.5	23							
LZ-87013		14.5								

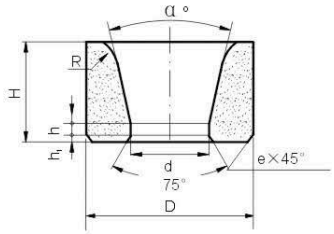
Drawing die blank for tube floating plug



Type	(mm) Basal dimension						Type	(mm) Basal dimension					
	D	H	d	e	e_1	e_2		D	H	d	e	e_1	e_2
LT-99001	15.1	10	5	1.5	1.0	0	**LT-99018**	22.0	13	10	1.5	1.0	0
LT-99002	14.0	8					**LT-99019**	23.0	12	12			1.5

Type	(mm) Basal dimension						Type	(mm) Basal dimension					
	D	H	d	e	e_1	e_2		D	H	d	e	e_1	e_2
LT-99003	17.1	10	7	1.5	1.0	0	**LT-99020**	24.0	14	12	2.0	1.0	1.5
LT-99004	19.1		8				**LT-99021**	25.0	17	14	1.5		
LT-99005	21.1						**LT-99022**	26.0					
LT-99006	23.1	12	12				**LT-99023**	27.0					
LT-99007	25.1		14				**LT-99024**	28.0	21	12			
LT-99008	26.1						**LT-99025**	29.0					
LT-99009	27.1	13					**LT-99026**	30.4					
LT-99010	14.0	10	5				**LT-99027**	31.6		14			
LT-99011	15.0						**LT-99028**	32.2	24				
LT-99012	16.0		7				**LT-99029**	33.4					
LT-99013	17.0						**LT-99030**	27.0	17	12			
LT-99014	18.0	12	8				**LT-99031**	26.0					
LT-99015	19.0						**LT-99032**	25.0		10			
LT-99016	20.0	13	10				**LT-99033**	24.0	14		2.0		
LT-99017	21.0						**LT-99034**	23.0	12		1.5		

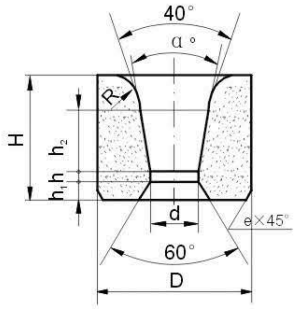
Drawing die blank for ferrous and non-ferrous metal rod



Type	(mm) Basal dimension			(mm) Referenced dimension				
	D	d	H	h	h_1	R	α °	β °
Z13-00001	47	22.5	27	5.5	4.5	7.5	20	60
Z13-00002		23.5						
Z13-00003		24.5				8.0		
Z13-00004	57	25.5	34	6.0	5.5	8.0		
Z13-00005		26.5						
Z13-00006		27.5						
Z13-00007		28.5						
Z13-00008		29.5		6.5				
Z13-00009		30.5						
Z13-00010		31.5						
Z13-00011		32.5						
Z13-00012		33.5						
Z13-00013		34.5		7.0				

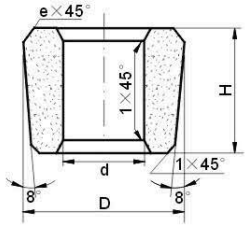
11-A

Drawing die blank for ferrous and non-ferrous metal wire



Type	(mm) Basal dimension								
	D	H	d	h	h_1	h_2	R	α °	e
11-0.4A	8	5	0.4	0.3	0.8	1.2	1.6	10	0.5
11-0.6A			0.6	0.4		1.4			
11-0.8A			0.8	0.6		1.8			
11-1.0A			1.0			2.0			
11-0.4-13A	12	9	0.4	0.3	1.0	2.0	2.0		1.0
11-0.6-13A			0.6	0.4		2.2			
11-0.8-13A			0.8	0.6		2.5			
11-1.0-13A			1.0			3.0			
11-1.3A			1.3	0.8					
11-1.6A			1.6	1.0					
11-1.8A			1.8	1.2		4.0			
11-2.0A			2.0						
11-2.3A			2.3						
11-0.4-16A	14	12	0.4	0.3	1.2	2.2	3.0		
11-0.6-16A			0.6	0.4					
11-0.8-16A			0.8	0.6					
11-1.0-16A			1.0	0.7		2.5		12	
11-1.3-16A			1.3	1.0		3.0			
11-1.8-16A			1.8	1.2		4.0			
11-2.3-16A			2.3			4.5			
11-2.8A			2.8			5.0			
11-1.8-22A	20	17	1.8	1.4	2.0	6.0		14	1.2
11-2.3-22A			2.3						
11-2.8-22A			2.8			7.0			
11-3.3A			3.3	1.6					
11-3.8A			3.8	1.8					
11-4.2A			4.2						
11-4.7A			4.7	2.0					
11-5.2A			5.2	2.2					
11-5.7A			5.7	2.4					

30-A Drawing die blank for ferrous and non-ferrous metal wire



Type	(mm) Basal dimension			
	D	H	d	e
30-31A	31.5	20	14	2
30-32A	32.5			
30-33A	33.5			
30-34A	34.5			
30-35A	35.2		15	
30-36A	36.2			
30-37A	37.2	21	17	
30-38A	38.2			
30-39A	39.2			
30-40A	40.2		18	3
30-41A	41.2	22		
30-42A	42.2			
30-43A	43.3			
30-44A	44.3	25	20	
30-45A	45.3			
30-46A	46.3			
30-47A	47.3		22	
30-48A	48.3			
30-49A	49.3			
30-50A	50.3			

The technique request:

The dimensions angle and tolerance of comented carbide diawing dies refer to the standard Q/ZYH106-2000.