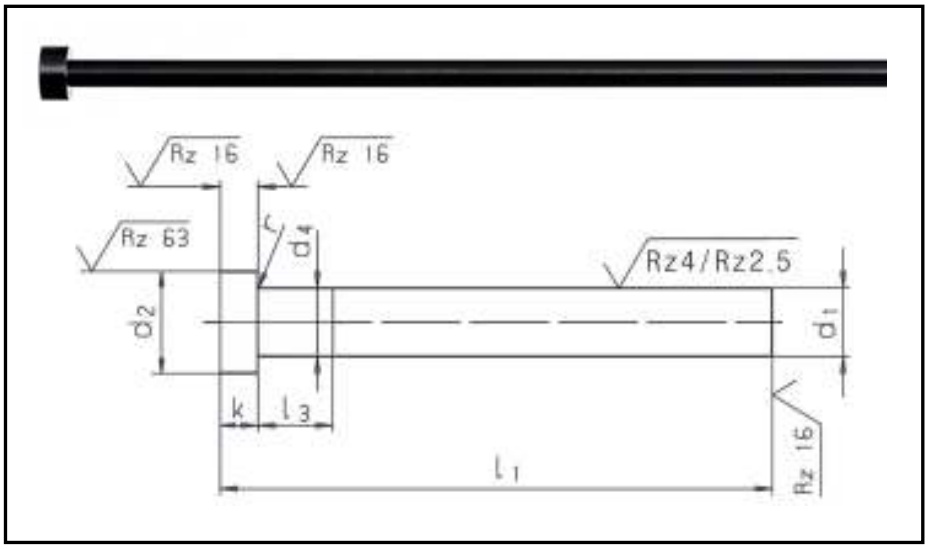
Ming Hsien

Black Ejector Pins with cylindrical head



DIN 1530 similar to ISO 6751

NEW

Material: 1.2343, 1.2344 or similar

Surface:

After Vacuum ION-Nitrided HV 1000 Up

With MoS_2 coating

Shaft: HRC 42 ± 2

Head: HRC 45 ± 5

After coating with MoS_2, it increases wear protection of sliding parts and long-term lubrication.

d_1	d_2	d_4	k	r	l_1 +2 0									l_3
g6	0 -0.2	appr.	0 -0.05	+0.2 0	100	125	160	200	250	315	400	500	630	appr.
1.0	2.5	d_1 + 0.03	1.2	0.2	●	●	●							5
1.1					●	●	●							
1.2					●	●	●	●						
1.3	3		1.5		●	●	●	●						
1.4					●	●	●	●						
1.5					●	●	●	●						
1.6					●	●	●	●						
1.7					●	●	●	●						
1.8					●	●	●	●						
1.9					●	●	●	●						
2.0	4		2		●	●	●	●	●					
2.1					●	●	●	●						
2.2					●	●	●	●						
2.5	5			0.3	●	●	●	●	●	●				
2.6					●	●	●	●						
2.7					●	●	●	●	●	●				
2.8					●	●	●							
3.0	6		3		●	●	●	●	●	●	●	●		
3.1					●	●	●							
3.2					●	●	●	●	●	●	●			
3.3					●	●	●							
3.4					●	●	●							
3.5	7				●	●	●	●	●	●	●			
3.6					●	●	●	●						
3.7					●	●	●	●	●	●	●			
3.8					●	●	●	●						

● =Available from stock. Other dimensions on request.

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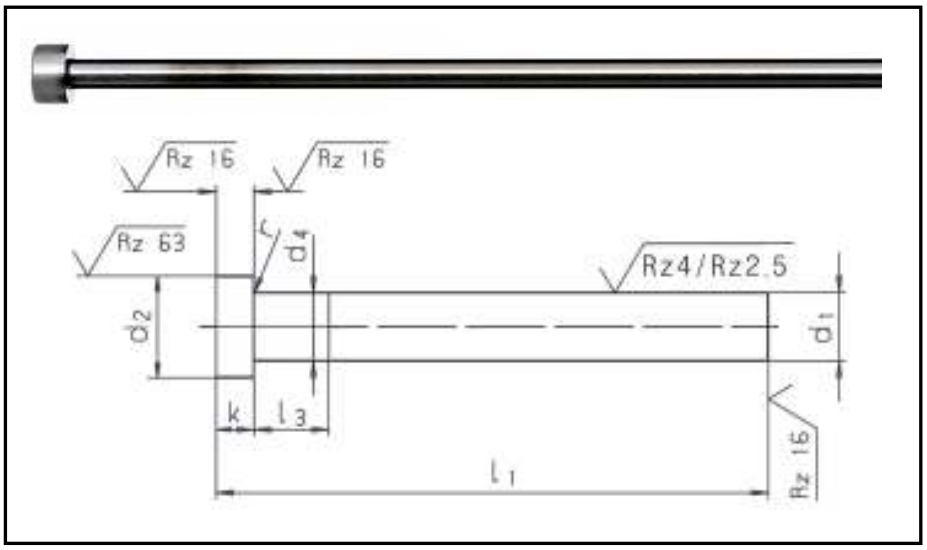
Black Ejector Pins with cylindrical head

d_1	d_2 0	d_4	k 0	r +0.2	l_1 +2 0									l_3
g6	-0.2	appr.	-0.05	0	100	125	160	200	250	315	400	500	630	appr.
4.0	8	d_1 + 0.03	3	0.3	●	●	●	●	●	●	●	●		5
4.1					●	●	●	●						
4.2					●	●	●	●	●	●	●			
4.3					●	●	●	●						
4.4					●	●	●							
4.5					●	●	●	●	●	●	●			
4.6					●	●	●	●						
4.7					●	●	●							
4.9					●	●	●	●						
5.0	10				●	●	●	●	●	●	●	●	●	
5.1					●	●	●	●						
5.2					●	●	●	●	●	●	●	●		
5.5					●	●	●	●	●	●	●	●		
6.0	12		5	0.5	●	●	●	●	●	●	●	●	●	6
6.1					●	●	●	●						
6.2					●	●	●	●	●	●	●	●		
6.3					●	●	●	●						
6.5					●	●	●	●	●	●	●	●		8
6.6					●	●	●	●						
6.8					●	●	●	●						
7.0					●	●	●	●	●	●	●	●	●	
7.2					●	●	●	●						
7.5					●	●	●	●	●	●	●			
8.0	14				●	●	●	●	●	●	●	●	●	
8.2					●	●	●	●	●	●	●	●	●	
8.5		d_1 + 0.04			●	●	●	●	●	●	●	●	●	10
8.7					●	●	●	●						
9.0					●	●	●	●	●	●	●	●	●	
9.5					●	●	●	●	●					
10.0	16				●	●	●	●	●	●	●	●	●	
10.2					●	●	●	●	●	●	●	●	●	
10.5					●	●	●	●	●	●	●	●	●	12
11.0					●	●	●	●	●	●	●	●	●	
12.0	18		7	0.8	●	●	●	●	●	●	●	●	●	
12.2					●	●	●	●	●	●	●	●	●	
12.5					●	●	●	●	●	●	●	●	●	14
13.0					●	●	●	●						
14.0	22				●	●	●	●	●	●	●	●	●	
16.0					●	●	●	●	●	●	●	●	●	16
18.0	24	d_1 + 0.07			●	●	●	●	●	●	●	●	●	18
20.0	26		8	1		●	●	●	●	●	●	●	●	20
25.0	32	d_1 + 0.10	10				●	●	●	●	●	●	●	25
32.0	40						●	●	●	●	●	●	●	32

● =Available from stock. Other dimensions on request.

Nitrided Ejector Pins with cylindrical head



Material: 1.2343, 1.2344 or similar

Surface:

After Vacuum ION-Nitrided HV 1000 Up

Shaft: HRC 42 ± 2

Head: HRC 45 ± 5

DIN 1530 similar to ISO 6751

d_1	d_2	d_4	k	r	l_1 +2 0									l_3
g6	0 -0.2	appr.	0 -0.05	+0.2 0	100	125	160	200	250	315	400	500	630	appr.
1.0	2.5	d_1 + 0.03	1.2	0.2	●	●	●							5
1.1					●	●	●							
1.2					●	●	●	●						
1.3	3		1.5		●	●	●	●						
1.4					●	●	●	●						
1.5					●	●	●	●						
1.6					●	●	●	●						
1.7					●	●	●	●						
1.8					●	●	●	●						
1.9					●	●	●	●						
2.0	4		2		●	●	●	●	●					
2.1					●	●	●	●						
2.2					●	●	●	●						
2.5	5			0.3	●	●	●	●	●	●				
2.6					●	●	●	●						
2.7					●	●	●	●	●	●				
2.8					●	●	●							
3.0	6		3		●	●	●	●	●	●	●	●		
3.1					●	●	●							
3.2					●	●	●	●	●	●	●			
3.3					●	●	●							
3.4					●	●	●							
3.5	7				●	●	●	●	●	●	●			
3.6					●	●	●	●						
3.7					●	●	●	●	●	●	●			
3.8					●	●	●	●						

● =Available from stock. Other dimensions on request.

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Nitrided Ejector Pins with cylindrical head

d_1	d_2	d_4	k	r	l_1 +2 0									l_3
	0		0	+0.2										
g6	-0.2	appr.	-0.05	0	100	125	160	200	250	315	400	500	630	appr.
4.0	8	d_1 + 0.03	3	0.3	●	●	●	●	●	●	●	●		5
4.1					●	●	●	●						
4.2					●	●	●	●	●	●	●			
4.3					●	●	●	●						
4.4					●	●	●							
4.5					●	●	●	●	●	●	●			
4.6					●	●	●	●						
4.7					●	●	●							
4.9					●	●	●	●						
5.0	10				●	●	●	●	●	●	●	●	●	
5.1					●	●	●	●						
5.2					●	●	●	●	●	●	●	●		
5.5					●	●	●	●	●	●	●	●		
6.0	12		5	0.5	●	●	●	●	●	●	●	●	●	6
6.1					●	●	●	●						
6.2					●	●	●	●	●	●	●	●		
6.3					●	●	●	●						
6.5					●	●	●	●	●	●	●	●		8
6.6					●	●	●	●						
6.8					●	●	●	●						
7.0					●	●	●	●	●	●	●	●	●	
7.2					●	●	●	●						
7.5					●	●	●	●	●	●	●			
8.0	14				●	●	●	●	●	●	●	●	●	
8.2					●	●	●	●	●	●	●	●	●	
8.5		d_1 + 0.04			●	●	●	●	●	●	●	●	●	10
8.7					●	●	●	●						
9.0					●	●	●	●	●	●	●	●	●	
9.5					●	●	●	●	●					
10.0	16				●	●	●	●	●	●	●	●	●	
10.2					●	●	●	●	●	●	●	●	●	
10.5					●	●	●	●	●	●	●	●	●	12
11.0					●	●	●	●	●	●	●	●	●	
12.0	18		7	0.8	●	●	●	●	●	●	●	●	●	
12.2					●	●	●	●	●	●	●	●	●	
12.5					●	●	●	●	●	●	●	●	●	14
13.0					●	●	●	●						
14.0	22				●	●	●	●	●	●	●	●	●	
16.0					●	●	●	●	●	●	●	●	●	16
18.0	24	d_1 + 0.07			●	●	●	●	●	●	●	●	●	18
20.0	26		8	1		●	●	●	●	●	●	●	●	20
25.0	32	d_1 + 0.10	10				●	●	●	●	●	●	●	25
32.0	40						●	●	●	●	●	●	●	32

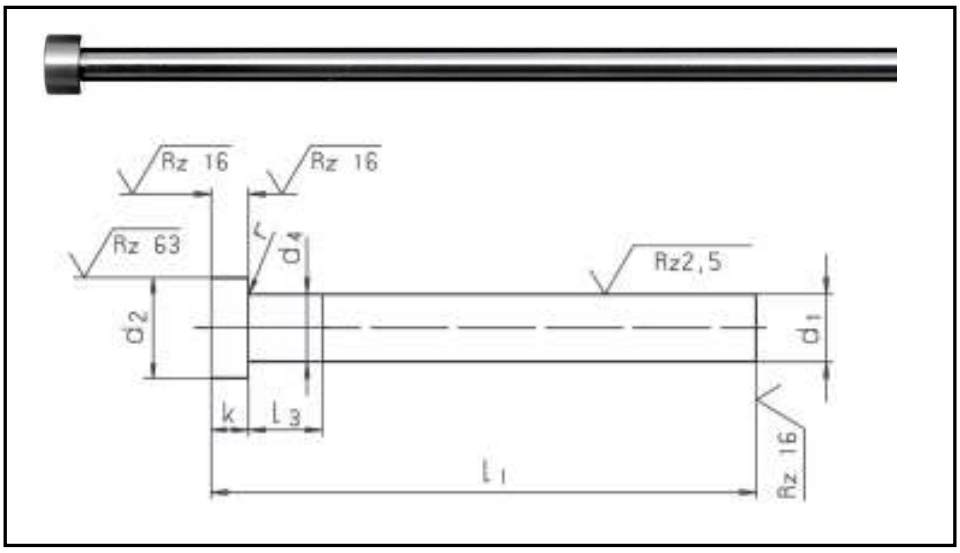
● =Available from stock. Other dimensions on request.

Ming Hsien

Ejector Pins with cylindrical head

NEW

made from HSS/M2



similar to ISO 6751

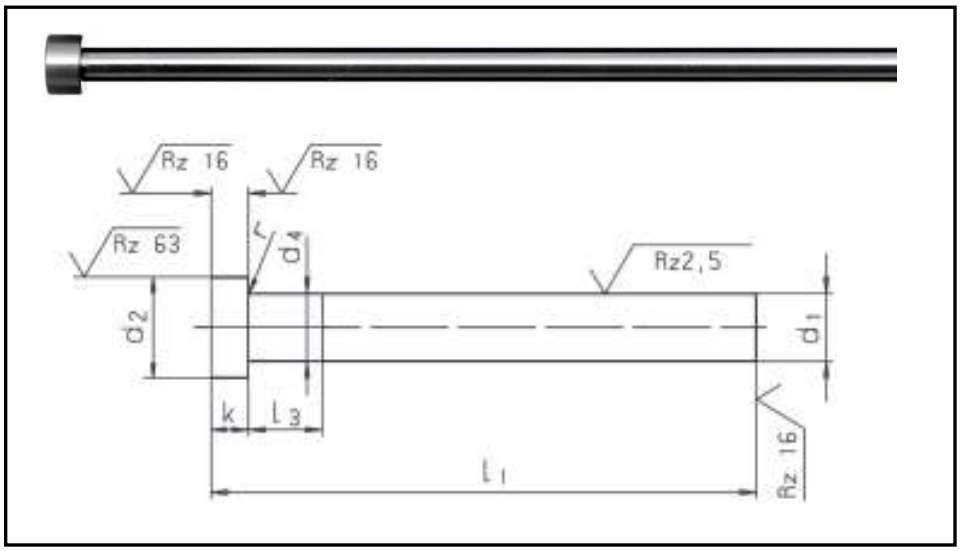
Material: HSS/M2 = High Speed Steel 1.3343 or similar
Shaft: HRC 62 ± 2
Head: HRC 50 ± 5

d_1 g6 -0.005	d_2 0 -0.2	d_4 appr.	k 0 -0.05	r +0.2 0	l_1 +2 0 100	160	200	250	l_3 ca.
1.5	3	d_1 + 0.03	1.5	0.2	●	●	●		5
2.0	4		2		●	●	●	●	
2.2						●	●		
2.5	5			0.3	●	●	●	●	
3.0	6		3		●	●	●	●	
3.2						●	●		
3.5	7				●	●	●	●	
4.0	8				●	●	●	●	6
4.2						●	●		
4.5					●	●	●	●	
5.0	10				●	●	●	●	
5.2							●		
5.5							●		
6.0	12		5	0.5			●		
8.0	14						●		8
9.0		d_1 + 0.04					●		10
10.0	16						●		

● =Available from stock. Other dimensions on request.

Ming Hsien

Ejector Pins with cylindrical head



Material: WS = alloy cold formed steel
Shaft: 60 ± 2 HRC
Head: 45 ± 5 HRC

DIN 1530 similar to ISO 6751

d_1	d_2	d_4	k	r	l_1 +2 0											l_3
g6	0 -0.2	appr.	0 -0.05	+0.2 0	40	50	63	80	100	125	160	200	250	315	400	appr.
0.8																
0.9																
1.0	2.5		1.2													
1.1																
1.2																
1.3																
1.4	3		1.5													
1.5				0.2												
1.6																
1.7																
1.8		d_1 + 0.03														
1.9																5
2.0	4															
2.1																
2.2			2													
2.3																
2.5																
2.6																
2.7	5			0.3												
2.8																
2.9																

● =Available from stock. Other dimensions on request.

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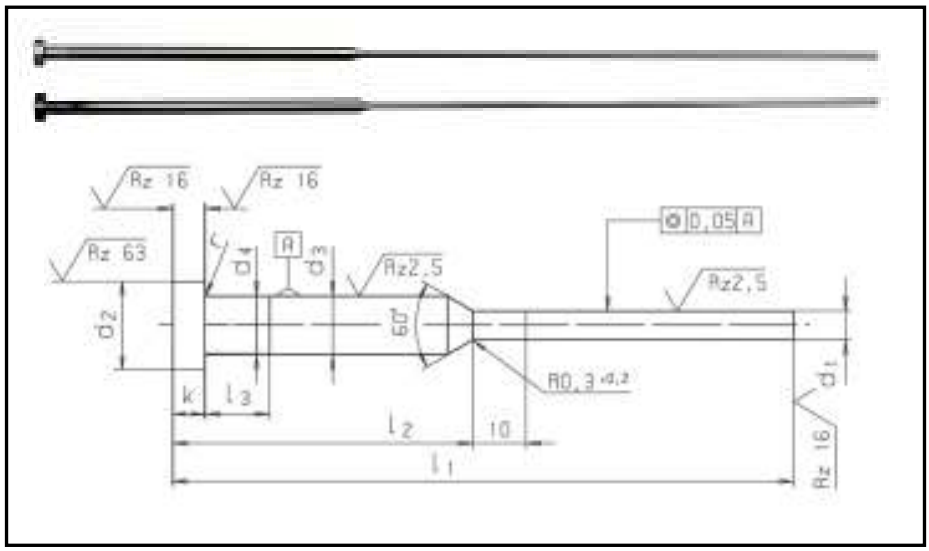
Ejector Pins with cylindrical head

d_1	d_2	d_4	k	r	l_1 +2 0											l_3
g6	0 -0.2	appr.	0 -0.05	+0.2 0	40	50	80	100	125	160	200	250	315	400	500	appr.
3.0	6	d_1 + 0.03	3	0.3												6
3.1																
3.2																
3.3																
3.4																
3.5	7															
3.6																
3.7																
3.8																
4.0	8															
4.1																
4.2																
4.3																
4.5																
4.6																
4.7																
5.0	10															
5.1																
5.2																
5.3																
5.5																
5.7																
6.0	12		5	0.5												
6.1																
6.2																
6.3																
6.5																8
6.6																
7.0																
7.5																
8.0	14															
8.2																
8.5		d_1 + 0.04														10
9.0																
9.5																
10.0	16															
10.2																
10.5																12
10.7																
11.0																
12.0	18		7	0.8												
12.2																
12.5																14
13.0																
14.0	22															
16.0																16
18.0	24	d_1 + 0.07														18
20.0	26		8	1												20

● =Available from stock. Other dimensions on request.

Step Pins with cylindrical head



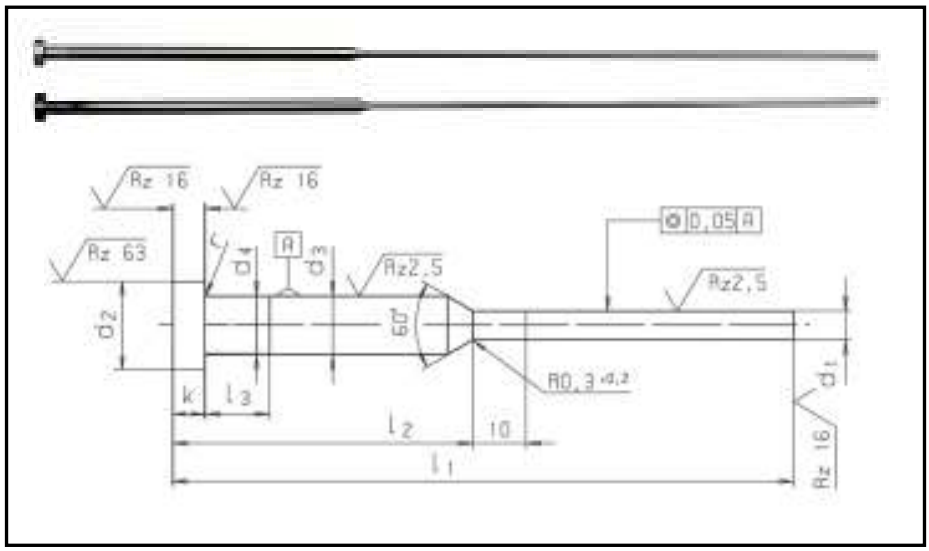
DIN 1530 similar to ISO 8694

Material:	1.2343, 1.2344 or similar
Surface:	After Vacuum ION-Nitrided HV 1000 Up
Shaft:	42 ± 2 HRC
Head:	45 ± 5 HRC

d_1	d_2	d_3	d_4	k	r	l_1 +2 0					l_3
g6	0	h11		0	+ 0.2						
0.1 increments	- 0.2			-0.05	0						
						80	100	125	160	200	
						l_2 -1 -2					
			ca.			32	50	50	63	80	ca.
0.8 to 1.4	4	2	d_3 + 0.03	2	0.2	●	●	●	●		5
1.5 to 2.4	6	3		3	0.3	●	●	●	●	●	
2.5 to 2.9	6	3		3	0.3		●	●	●	●	
3.0 to 3.5	8	4		3	0.3		●	●	●	●	

● =Available from stock. Other dimensions on request.

Step Pins with cylindrical head



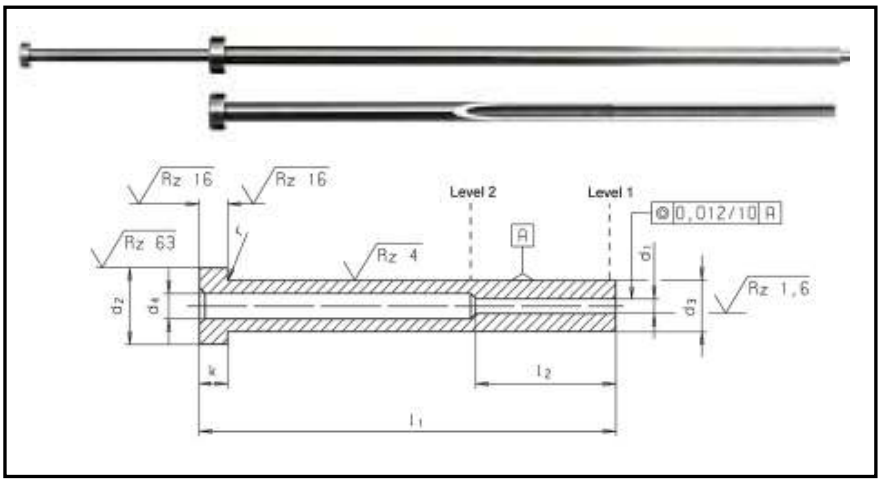
DIN 1530 similar to ISO 8694

Material: WS = alloy cold formed steel
Shaft: 60 ± 2 HRC
Head: 45 ± 5 HRC

d_1	d_2	d_3	d_4	k	r	l_1					l_3
g6	0	h11		0	+ 0.2	+2					
0.1 increments	- 0.2			-0.05	0	0					
						80	100	125	160	200	
						l_2					
						-1					
						-2					
			ca.			32	50	50	63	80	ca.
0.8 to 1.4	4	2	d_3 + 0.03	2	0.2						5
1.5 to 2.4	6	3		3	0.3						
2.5 to 2.9	6	3		3	0.3						
3.0 to 3.5	8	4		3	0.3						

Ming Hsien

Ejector Sleeves with cylindrical head



Material: 1.2343, 1.2344 or similar
Surface:
After Vacuum ION-Nitrided HV 1000 Up
Shaft: HRC 42 ± 2
Head: HRC 45 ± 5

DIN 16756 similar to ISO 8405

Sleeves with nitrided O.D. & I.D. are also available.

d_1 H5	d_3 g6 0	d_4 0 -0.1	d_2 0 -0.2	k 0 -0.05	r 0.2 0	l_2 2 0	l_1 0								
							75	100	125	150	175	200	225	250	275
1.5	3	1.9	6	3	0.3	35									
1.6		1.9													
2.0	4	2.4	8												
2.2		2.4													
2.5	5	2.9	10												
2.7		3.0													
3.0		3.3				45									
3.2		3.5													
3.5	6	3.9	12	5	0.5										
3.7		4.0													
4.0		4.3													
4.2	8	4.5	14												
4.5		4.8													
5.0		5.3													
5.2		5.5													
5.5		5.8													
6.0	10	6.3	16												
6.2		6.5													
8.0	12	8.3	20	7	0.8										
8.2		8.5													
10.0	14	10.5	22												
12.0	16	12.5													

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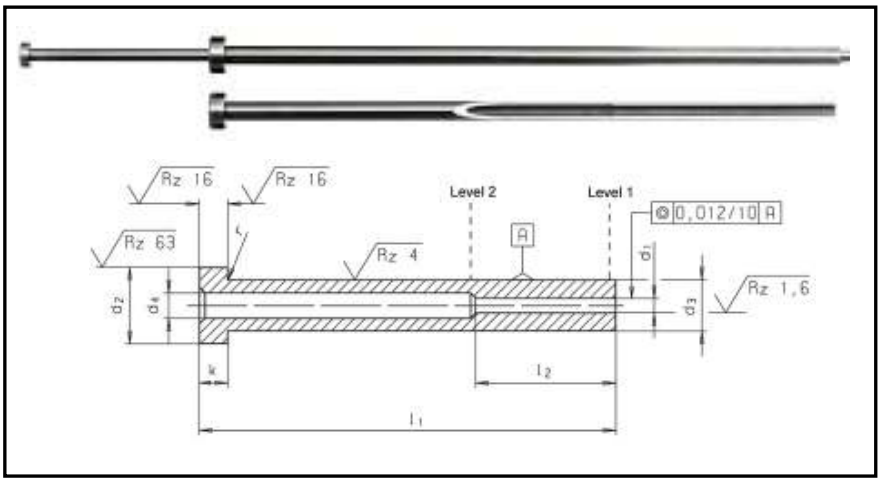
Ejector Sleeves with cylindrical head



Material: WS = alloy cold formed steel

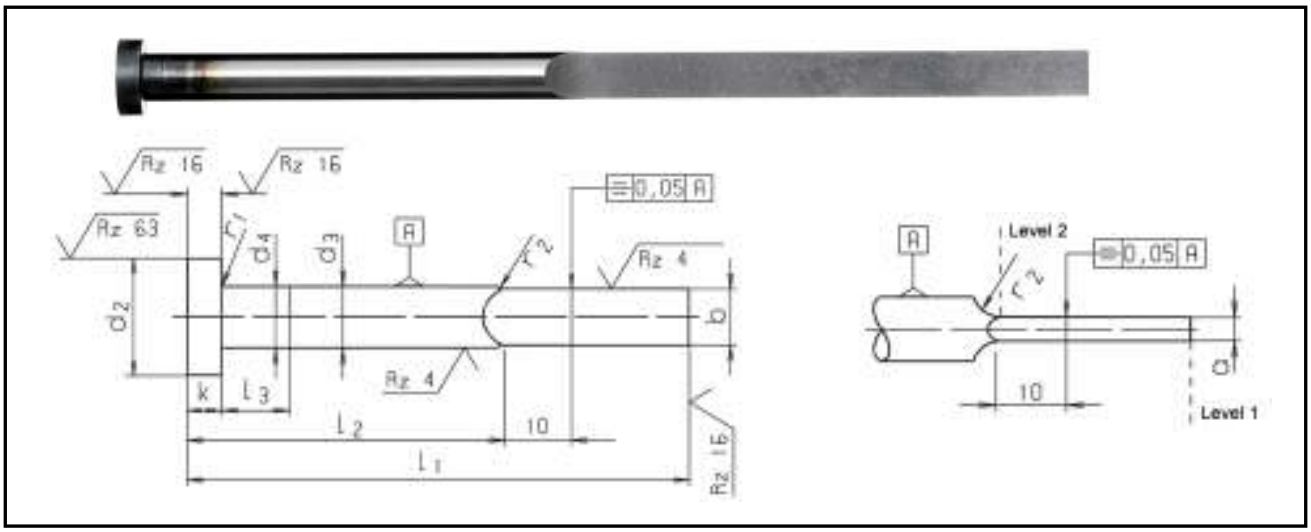
Shaft: 60 ± 2 HRC
Head: 45 ± 5 HRC

DIN 16756 similar to ISO 8405

d_1 H5	d_3 g6 0	d_4 0 -0.1	d_2 0 -0.2	k 0 -0.05	r 0.2 0	l_2 2 0	l_1 0								
							75	100	125	150	175	200	225	250	275
1.5	3	1.9	6	3	0.3	35									
1.6		1.9													
2.0	4	2.4	8												
2.2		2.4													
2.5	5	2.9	10												
2.7		3.0													
3.0		3.3				45									
3.2		3.5													
3.5	6	3.9	12	5	0.5										
3.7		4.0													
4.0		4.3													
4.2	8	4.5	14												
4.5		4.8													
5.0		5.3													
5.2		5.5													
5.5		5.8													
6.0	10	6.3	16												
6.2		6.5													
8.0	12	8.3	20	7	0.8										
8.2		8.5													
10.0	14	10.5	22												
12.0	16	12.5													

Ming Hsien

Ejector Blades with cylindrical head



DIN 1530 similar to ISO 8693

Material: 1.2343, 1.2344 or similar

Surface: After Vacuum ION-Nitrided HV 1000 Up

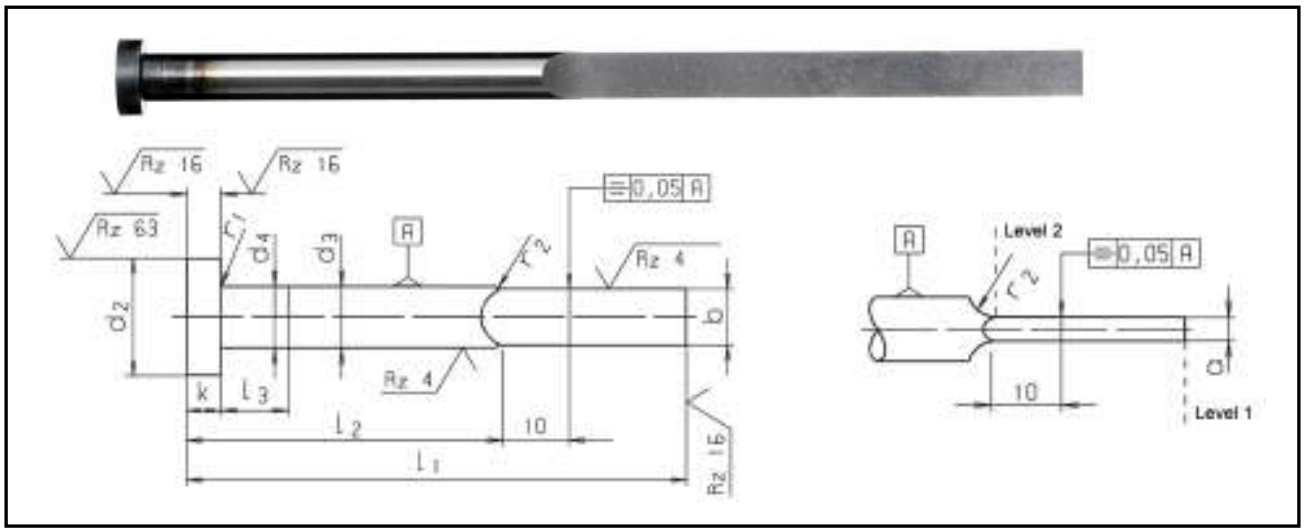
Shaft: HRC 42 ± 2

Head: HRC 45 ± 5

a	b	d_3	d_2	d_4	k	r_1	r_2	l_1 + 2/0									l_3
								63	80	100	125	160	200	250	315	400	
0 - 0.015	g6 -0.015	h11	0 - 0.2	ca.	0 - 0.05	+ 0.2 0	min	l_2 - 1/-2									ca.
								32	40	50	63	80	100	125	160	200	
1.0	3.5	4.2	8.0	d3 + 0.03	3	0.3	10										5
0.8	3.8																
1.0																	
1.2																	
1.0	4.5	5.0	10.0														
1.2																	
1.5																	
1.0	5.5	6.0	12.0		5	0.5											6
1.2																	
1.5																	
2.0																	
1.2	7.5	8.0	14.0														8
1.5																	
2.0																	
1.5	9.5	10.0	16.0	d_3 + 0.04													10
2.0																	
2.0	11.5	12.0	18.0		7	0.8											12
2.5																	
2.0	15.5	16.0	22.0														16
2.5																	

Ming Hsien

Ejector Blades with cylindrical head

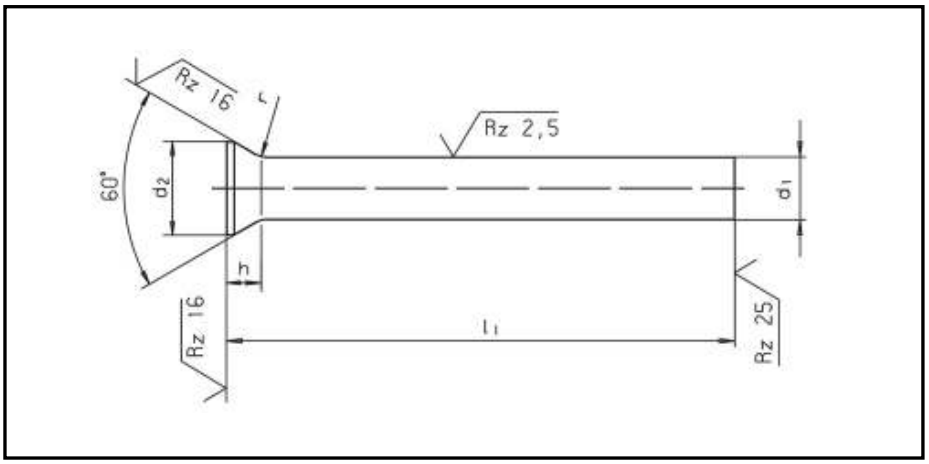


DIN 1530 similar to ISO 8693

Material: WS = alloy cold formed steel
Shaft: HRC 60 ± 2
Head: HRC 45 ± 5

a	b	d_3	d_2	d_4	k	r_1	r_2	l_1 + 2/0									l_3
								63	80	100	125	160	200	250	315	400	
0 - 0.015	g6 -0.015	h11	0 - 0.2	ca.	0 - 0.05	+ 0.2 0	min	l_2 - 1/-2									ca.
								32	40	50	63	80	100	125	160	200	
1.0	3.5	4.2	8.0	d3 + 0.03	3	0.3	10										5
0.8	3.8																
1.0																	
1.2																	
1.0	4.5	5.0	10.0														
1.2																	
1.5																	
1.0	5.5	6.0	12.0		5	0.5											6
1.2																	
1.5																	
2.0																	
1.2	7.5	8.0	14.0														8
1.5																	
2.0																	
1.5	9.5	10.0	16.0	d_3 + 0.04													10
2.0																	
2.0	11.5	12.0	18.0		7	0.8											12
2.5																	
2.0	15.5	16.0	22.0														16
2.5																	

Punch with conical head



DIN 9861 similar to ISO 6752

Material: HSS = High Speed Steel
Shaft: HRC 64 ± 2
Head: HRC 50 ± 5

d_1 h6	l_1 +0.5 0			d_2 ±0.05	h +0.2 0	r
0.5	71	80	-	0.9	0.55	$0.02^{+0.2}$
0.55				1.0	0.59	
0.6				1.1	0.63	
0.65				1.2	0.68	
0.7				1.3	0.72	
0.75					0.68	
0.8				1.4	0.92	
0.85					0.88	
0.9				1.6	1.01	
0.95					0.96	

d_1 h6	l_1 +0.5 0			d_2 ±0.05	h +0.2 0	r
1.0	71	80	-	1.8	1.19	$0.4^{+0.3}$
1.1					1.11	
1.2				2.0	1.19	
1.3					1.11	
1.4				2.2	1.19	
1.5					1.11	
1.6				2.5	1.28	
1.7					1.19	
1.8				2.8	1.37	
1.9					1.28	

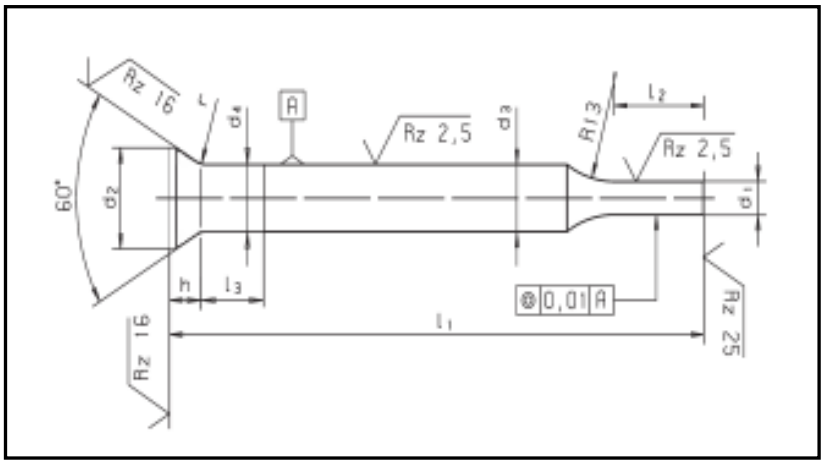
Ming Hsien

Punch with conical head

d_1 h6	l_1 +0.5 0			d_2 ±0.1	h +0.2 0	r
2.0	71	80	100	3.0	1.37	$0.4^{+0.3}$
2.1				3.2	1.45	
2.2					1.37	
2.3				3.5	1.54	
2.4					1.45	
2.5					1.37	
2.6				4.0	1.71	
2.7					1.63	
2.8					1.54	
2.9					1.45	
3.0	71	80	100	4.5	1.80	$0.6^{+0.4}$
3.1					1.71	
3.2					1.63	
3.3					1.54	
3.4					1.45	
3.5				5.0	1.80	
3.6					1.71	
3.7					1.63	
3.8					1.54	
3.9					1.45	
4.0				5.5	1.80	
4.1					1.71	
4.2					1.63	
4.3					1.54	
4.4					1.45	
4.5				6.0	1.80	
4.6					1.71	
4.7					1.63	
4.8					1.54	
4.9					1.45	
5.0				6.5	1.8	
5.1					1.71	
5.2					1.63	
5.3					1.54	
5.4					1.45	
5.5				7.0	1.8	
5.6					1.71	
5.7					1.63	
5.8					1.54	
5.9					1.45	

d_1 h6	l_1 +0.5 0			d_2 ±0.2	h +0.2 0	r
6.0	71	80	100	8.0	2.23	$1.0^{+0.5}$
6.1					2.15	
6.2					2.06	
6.3					1.97	
6.4					1.89	
6.5				9.0	3.17	
7.0					2.73	
7.5				10	3.17	
8.0					2.73	
8.5				11	3.17	
9.0					2.73	
9.5				12	3.17	
10.0					2.73	
10.5				13	3.17	
11.0					2.73	
11.5				14	3.17	
12.0					2.73	
12.5				15	3.17	
13.0					2.73	
13.5				16	3.67	$1.5^{+0.5}$
14.0					3.23	
14.5				17	3.67	
15.0					3.23	
15.5				18	3.67	
16.0					3.23	
16.5				19	3.67	
17.0					3.23	
17.5				20	3.67	
18.0					3.23	
18.5				21	3.67	
19.0					3.23	
19.5				22	3.67	
20.0					3.23	

Punch with conical head - Stepped shaft



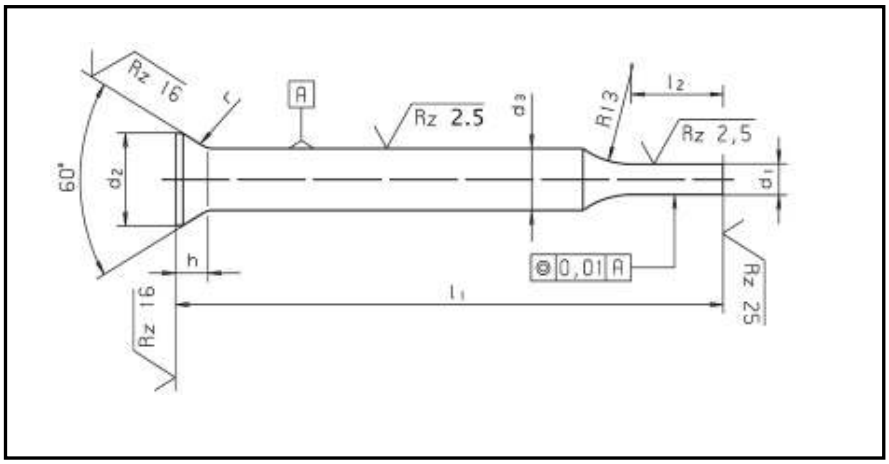
DIN 9861

Material: HSS = High Speed Steel
Shaft: HRC 64 ± 2
Head: HRC 50 ± 5

Material: WS = alloy cold formed steel
Shaft: HRC 62 ± 2
Head: HRC 45 ± 5

d_1 h6 Above	d_1 h6 To	Grad-ation	l_1 +0.5 0		d_2	d_2 Limit value	d_3 h6	d_4	l_2 +0.5 0	l_3 Max	h +0.2 0	r
0.5	1.4	0.1	71	80	2.2	±0.05	1.5	d_3 +0.03	7	5	1.11	$0.4^{+0.3}$
0.5	1.9				3.0	±0.1	2				1.37	
1.6	2.9				4.5		3				1.80	$0.6^{+0.4}$
2.5	3.5	0.5			5.5		4		10			
3.5	4.5				6.5	±0.2	5			6		
4.5	5.5				8.0		6				2.23	$1.0^{+0.5}$

Punch with conical head - Stepped shaft



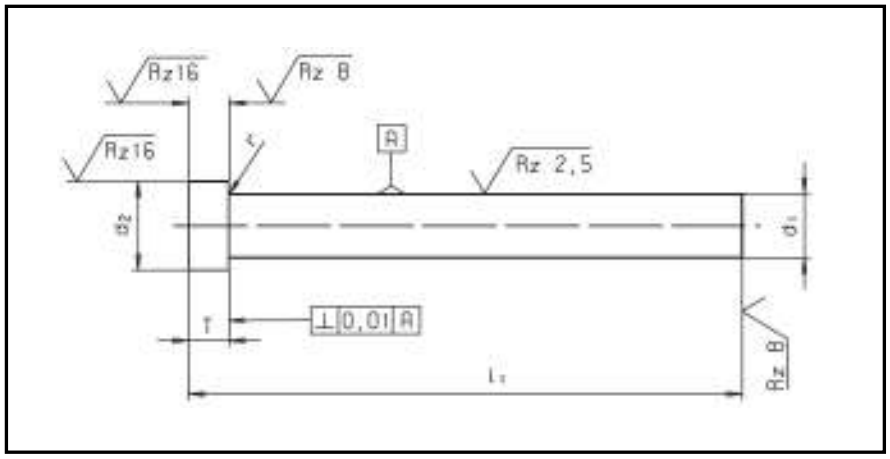
DIN 9861 similar ISO 9181

Material: HSS = High Speed Steel
Shaft: HRC 64 ± 2
Head: HRC 50 ± 5

Material: WS = alloy cold formed steel
Shaft: HRC 62 ± 2
Head: HRC 45 ± 5

d_1 h6		Grad-ation	l_1 +0.5 0		d_2		d_3 h6	l_2 +0.5 0	h +0.2 0	r
Above	To					Limit value				
0.5	1.4	0.1	71	80	2.2	±0.05	1.5	7	1.11	$0.4^{+0.3}$
0.5	1.9				3.0	±0.1	2		1.37	
1.6	2.9				4.5		3		1.80	$0.6^{+0.4}$
2.5	3.5	0.5			5.5		4	10		
3.5	4.5				6.5	±0.2	5			
4.5	5.5				8.0		6		2.23	$1.0^{+0.5}$

Tungsten Carbide punch with cylindrical head



similar to DIN ISO 8020 and ISO 8021

Material: **Commercially available Tungsten Carbide**

1. ∅ 0.3 to ∅ 0.99 can only be supplied with brazed head.
2. ∅ 1.0 to ∅ 6.00 x 80 mm ground from solid material, also available brazed on request.
3. From ∅ 6.1 and longer than 80mm only available.
4. Customer parts from solid materials on request.
5. Also available with stepped shaft.
6. Other lengths available on request.

Ming Hsien

Tungsten Carbide punch with cylindrical head

d_1 +0.01 0	d_1 h6	d_2 0 -0.15	T 0 -0.02	r +0.1 0	l_1+0.5 +0.2			
					71	80	90	100
1.0 to 1.4	1.0 to 1.4	4.0	5	0.3				
1.5	1.5							
1.6 to 1.9	1.6 to 1.9							
2.0	2.0	5.0						
2.1 to 2.4	2.1 to 2.4							
2.5	2.5							
2.6 to 2.9	2.6 to 2.9							
3.0	3.0	6.0						
3.1 to 3.4	3.1 to 3.4							
3.5	3.5							
3.6 to 3.9	3.6 to 3.9							
4.0	4.0	7.0						
4.1 to 4.4	4.1 to 4.4							
4.5	4.5							
4.6 to 4.9	4.6 to 4.9							
5.0	5.0	8.0						
5.1 to 5.4	5.1 to 5.4							
5.5	5.5							
5.6 to 5.9	5.6 to 5.9							
6.0	6.0	9.0						
6.1 to 6.4	6.1 to 6.4							
6.5	6.5							
6.6 to 6.9	6.6 to 6.9							
7.0	7.0	10.0						
7.1 to 7.4	7.1 to 7.4							
7.5	7.5							
7.6 to 7.9	7.6 to 7.9							
8.0	8.0	11.0						
8.1 to 8.4	8.1 to 8.4							
8.5	8.5							
8.6 to 8.9	8.6 to 8.9							
9.0	9.0	12.0						
9.1 to 9.4	9.1 to 9.4							
9.5	9.5							
9.6 to 9.9	9.6 to 9.9							
10.0	10.0	13.0						
10.5	10.5							