Why Güvenal?

The Distinguishing Features of the Guvenal Ejector Pins from the Similar Products

Stable fitting-operation possibilities (rigid system & tight fitting) with the head top surface grinding processes (Ra 3.2).

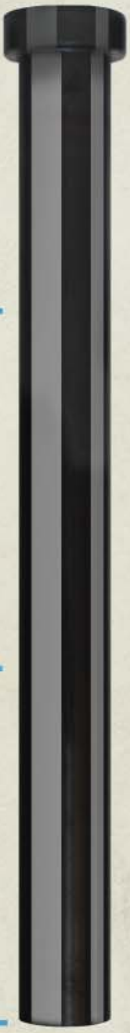
During press, it does not adhere to raw material in mould - slippery surface.

Improved radius geometry which prevents head breaking & chamfer forms which are suitable for pin head and body structure.

- Abrasion resistant surface with oxidation coating.
- Increased mould working life and perfect dry operation feature.
- High corrosion protection and unstainable surface.
- More durable than the traditional (common) pins.

Minimum roughness and minimum friction (Ra 0.8) = more durable operation life compared to the similar products.

1.2343 / Plasma-Nitriding with Oxidation Coating offers stable operation, protection against humidity / water, and high temperature resistance.



Type: Plastic Injection

Type: Metal and Plastic Injection

"As Guvenal - GTH, we use our missions in favour of our customers by adding value and try to meet their expectations best. We always aim better for you with our team which works customer oriented, our innovative and efficient business approach." **ATTENTION:** Each black looking pins are not oxidation coating pins (like cheap series from Far East). You can use Guvenal oxidation coating pins with confidence.

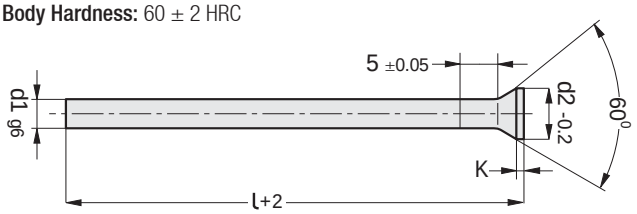
Note: Our products are designed more quality and economic by Guvenal - GTH engineers.

info@guvenal.net **www.guvenal.net**

Ejector Pin - Conical Head / DIN 1530-D

Code: HBI

Material: 1.2516 WS
Head Hardness: 45 ± 2 HRC
Body Hardness: 60 ± 2 HRC
Heat Resistance: 220° max.
Tensile Resistance: 1300 N / mm²



d1	l	d2	k
9.0	100	11	1.0
	125		
	160		
	200		
	250		
9.5	100	12	1.0
	125		
	160		
	200		
	250		
10	100	12	1.0
	125		
	160		
	200		
	250		
	315		
10.5	100	13	1.0
	125		
	160		
	200		
11	100	13	1.0
	125		
	160		
	200		
	250		
12	100	14	1.0
	125		
	160		
	200		
	250		
	315		
13	100	15	1.0
	125		
	160		
	200		
	250		
14	100	16	1.5
	125		
	160		
	200		
	250		
	315		
16	100	18	1.5
	125		
	160		
	200		
	250		
	315		

d1	l	d2	k
5.4	100	6.5	0.5
	125		
	160		
5.5	100	7.0	0.5
	125		
	160		
	200		
	250		
	315		
5.6	100	7.0	0.5
	125		
	160		
5.7	100	7.0	0.5
	125		
	160		
5.8	100	7.0	0.5
	125		
	160		
5.9	100	7.0	0.5
	125		
	160		
6.0	100	8.0	0.5
	125		
	160		
	200		
	250		
	315		
6.5	100	9.0	1.0
	125		
	160		
	200		
	250		
7.0	100	9.0	1.0
	125		
	160		
	200		
	250		
	315		
7.5	100	10	1.0
	125		
	160		
	200		
	250		
8.0	100	10	1.0
	125		
	160		
	200		
	250		
	315		
8.5	100	11	1.0
	125		
	160		
	200		
	250		
	315		

d1	l	d2	k
3.9	100	5.0	0.5
	125		
	160		
4.0	100	5.5	0.5
	125		
	160		
	200		
	250		
	315		
4.1	100	5.5	0.5
	125		
	160		
4.2	100	5.5	0.5
	125		
	160		
4.3	100	5.5	0.5
	125		
	160		
4.4	100	5.5	0.5
	125		
	160		
4.5	100	6.0	0.5
	125		
	160		
	200		
	250		
	315		
4.6	100	6.0	0.5
	125		
	160		
4.7	100	6.0	0.5
	125		
	160		
4.8	100	6.0	0.5
	125		
	160		
4.9	100	6.0	0.5
	125		
	160		
5.0	100	6.5	0.5
	125		
	160		
	200		
	250		
	315		
5.1	100	6.5	0.5
	125		
	160		
5.2	100	6.5	0.5
	125		
	160		
5.3	100	6.5	0.5
	125		
	160		

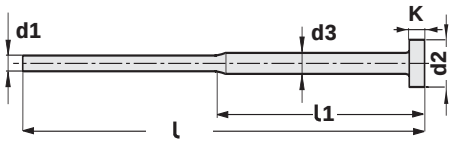
d1	l	d2	k
2.9	100	4.0	0.5
	125		
	160		
3.0	100	4.5	0.5
	125		
	160		
	200		
	250		
	315		
3.1	100	4.5	0.5
	125		
	160		
3.2	100	4.5	0.5
	125		
	160		
	200		
3.3	100	4.5	0.5
	125		
	160		
3.4	100	4.5	0.5
	125		
	160		
3.5	100	5.0	0.5
	125		
	160		
	200		
	250		
	315		
3.6	100	5.0	0.5
	125		
	160		
3.7	100	5.0	0.5
	125		
	160		
3.8	100	5.0	0.5
	125		
	160		

d1	l	d2	k
2.0	100	3.0	0.5
	125		
	160		
	200		
	250		
	315		
2.1	100	3.2	0.5
	125		
	160		
2.2	100	3.2	0.5
	125		
	160		
2.3	100	3.5	0.5
	125		
	160		
2.4	100	3.5	0.5
	125		
	160		
2.5	100	3.5	0.5
	125		
	160		
	200		
	250		
	315		
2.6	100	4.0	0.5
	125		
	160		
2.7	100	4.0	0.5
	125		
	160		
2.8	100	4.0	0.5
	125		
	160		

d1	l	d2	k
1.0	100	1.8	0.5
	125		
	160		
	200		
1.1	100	1.8	0.5
	125		
	160		
1.2	100	2.0	0.5
	125		
	160		
1.3	100	2.0	0.5
	125		
	160		
1.4	100	2.2	0.5
	125		
	160		
1.5	100	2.2	0.5
	125		
	160		
	200		
	250		
1.6	100	2.5	0.5
	125		
	160		
1.7	100	2.5	0.5
	125		
	160		
1.8	100	2.8	0.5
	125		
	160		
1.9	100	2.8	0.5
	125		
	160		

Order: HBI. d1 x l

For your order of special dimensions, technical drawing can be used:

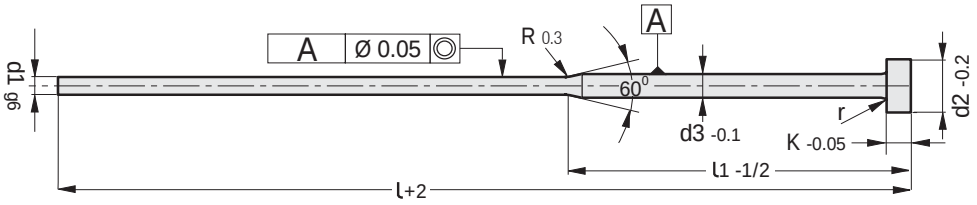


As per request / Custom-made orders.

Cylinder Head Stepped Ejector Pin / DIN ISO 8694

Code: SBKAH

Material: 1.2516 WS
Head Hardness: 45 ± 2 HRC
Body Hardness: 60 ± 2 HRC
Heat Resistance: 220° max.
Tensile Resistance: 1300 N / mm²



Type: AH

Code: SBKAH

d1	l	l1	d3	d2	k
0.8	63	25	2	4	2
	80	35			
	100	50			
	125				
	150				
	160	75			
1.0	63	25	2	4	2
	80	35			
	100	50			
	125				
	150				
	160	75			
	200				
1.1	63	25	2	4	2
	80	35			
	100	50			
	125				
	150				
	160	75			
1.2	63	25	2	4	2
	80	35			
	100	50			
	125				
	150				
	160	75			
1.3	63	25	2	4	2
	80	35			
	100	50			
	125				
	150				
	160	75			
1.4	63	25	2	4	2
	80	35			
	100	50			
	125				
	150				
	160	75			
1.5	63	25	3	6	3
	80	35			
	100	50			
	125				
	150				
	160	75			
	200				
1.6	80	35	3	6	3
	100	50			
	125				
	150				
	160	75			
	200				
1.7	80	35	3	6	3
	100	50			
	125				
	150				
	160	75			
	200				
1.8	80	35	3	6	3
	100	50			
	125				
	150				
	160	75			
	200				
2.0	80	35	3	6	3
	100	50			
	125				
	150				
	160	75			
	200				
2.2	80	35	3	6	3
	100	50			
	125				
	150				
	160	75			
	200				
2.5	100	50	3	6	3
	125				
	150				
	160	75			
	200				
2.6	100	50	3	6	3
	125				
	150				
	160	75			
	200				
2.7	100	50	3	6	3
	125				
	150				
	160	75			
	200				
2.8	100	50	3	6	3
	125				
	150				
	160	75			
	200				

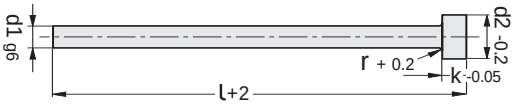
Order:
SBKAH. d1 x d3 x l1 x l

Order Example:
SBKAH. 1.4 x 2 x 50 x 100

Code: SBIAH

Ejector Pin - Cylinder Head / ISO 6751, DIN 1530 Form: AH

Material: 1.2516 WS
Head Hardness: 45 ± 2 HRC
Body Hardness: 60 ± 2 HRC
Heat Resistance: 220° max.
Tensile Resistance: 1300 N / mm²



d1	l	d2	k
12	100	18	7.0
	125		
	160		
	200		
	250		
	315		
	400		
	500		
	630		
	800		
	1000		
13	100	20	7.0
	125		
	160		
	200		
	250		
	315		
	400		
14	100	22	7.0
	125		
	160		
	200		
	250		
	315		
	400		
	500		
	630		
	800		
	1000		
16	100	22	7.0
	125		
	160		
	200		
	250		
	315		
	400		
	500		
	630		
	800		
	1000		
18	100	24	7.0
	125		
	160		
	200		
	250		
	315		
	400		
	500		
	630		
	1000		
20	100	26	8.0
	125		
	160		
	200		
	250		
	315		
	400		
	500		
	630		
	800		
	1000		
25	100	32	10
	125		
	160		
	200		
	250		
	315		
	400		
	500		
	630		
	800		
	1000		

d1	l	d2	k
7.5	100	12	5.0
	125		
	160		
	200		
	250		
	315		
	400		
8.0	100	14	5.0
	125		
	160		
	200		
	250		
	315		
	400		
	500		
	630		
	800		
	1000		
8.2	100	14	5.0
	160		
	250		
8.5	100	14	5.0
	125		
	160		
	200		
	250		
	315		
	400		
	500		
	630		
9.0	100	14	5.0
	125		
	160		
	200		
	250		
	315		
	400		
	500		
	630		
10	100	16	5.0
	125		
	160		
	200		
	250		
	315		
	400		
	500		
	630		
	800		
	1000		
10.2	125	16	5.0
	250		
10.5	100	16	5.0
	125		
	160		
	200		
	315		
	400		
11	100	16	5.0
	125		
	160		
	200		
	250		
	315		
	400		

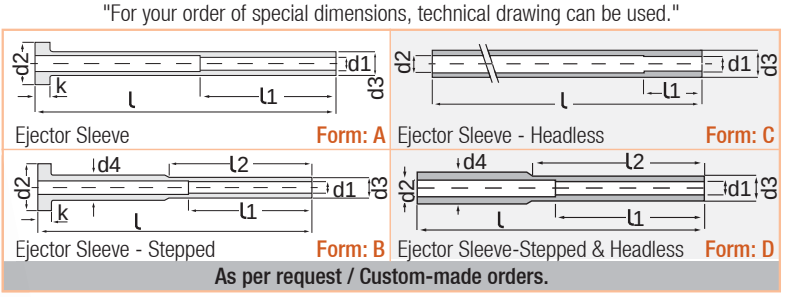
d1	l	d2	k
5.2	100	10	3.0
	200		
	250		
	315		
	400		
5.5	100	10	3.0
	125		
	160		
	200		
	250		
	315		
	400		
	500		
6.0	100	12	5.0
	125		
	160		
	200		
	250		
	315		
	400		
	500		
	630		
	800		
	1000		
6.2	100	12	5.0
	160		
	250		
6.5	100	12	5.0
	125		
	160		
	200		
	250		
	315		
	400		
	500		
	630		
7.0	100	12	5.0
	125		
	160		
	200		
	250		
	315		
	400		
	500		
	1000		

d1	l	d2	k
3.2	100	6.0	3.0
	160		
	200		
3.5	100	7.0	3.0
	125		
	160		
	200		
	250		
	315		
	400		
	500		
3.7	100	6.0	3.0
	160		
4.0	100	8.0	3.0
	125		
	160		
	200		
	250		
	315		
	400		
	500		
	630		
	800		
	1000		
4.1	100	8.0	3.0
4.2	100	8.0	3.0
	160		
	200		
4.5	100	8.0	3.0
	125		
	160		
	200		
	250		
	315		
	400		
	500		
5.0	100	10	3.0
	125		
	160		
	200		
	250		
	315		
	400		
	500		
	630		
	800		
	1000		

d1	l	d2	k
1.0	100	2.5	1.2
	125		
	160		
	200		
	315		
	250		
1.1	100	2.5	12
1.2	100	2.5	1.2
	160		
1.3	100	3.0	1.5
	160		
1.4	100	3.0	1.5
	160		
1.5	100	3.0	1.5
	125		
	160		
	200		
	250		
	315		
1.6	100	3.0	1.5
	160		
1.7	100	3.0	1.5
	160		
1.8	100	3.0	1.5
	160		
1.9	100	3.0	1.5
	160		
2.0	100	4.0	2.0
	125		
	160		
	200		
	250		
	315		
	400		
	500		
2.2	100	4.0	2.0
	160		
2.3	250	4.0	2.0
2.4	100	5.0	2.0
	160		
2.5	100	5.0	2.0
	125		
	160		
	200		
	250		
	315		
	400		
	500		
2.7	100	5.0	2.0
	160		
3.0	100	6.0	3.0
	125		
	160		
	200		
	250		
	315		
	400		
	500		
	630		

Order: SBIAH. d1 x l

"For your order of special dimensions, technical drawing can be used."



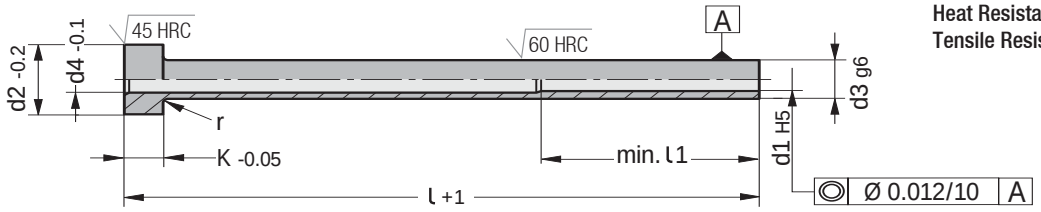
As per request / Custom-made orders.

Ejector Sleeve - Nitrided / DIN ISO 8405

Code: SMB

Rear part of inner hole is ground in 30 - 45 mm Ejector Pin working tolerance.

Material: 1.2343
Head Hardness: 45 ± 2 HRC
Body Hardness: 60 ± 2 HRC
Heat Resistance: 500 - 550⁰ max.
Tensile Resistance: 1450 N / mm²



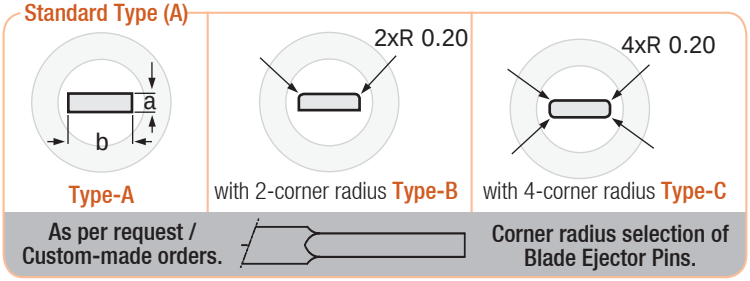
d3	l	d1	l1	d4	d2	k	r
4	75	2.0	35	2.3	8	3	0.3
	100						
	125						
	150						
	160						
	175						
	200						
	250						
5	75	2.5	35	3.0	10	3	0.3
	100						
	125						
	150						
	160						
	175						
	200						
	250						
5	75	3.0	45	3.3	10	3	0.3
	100						
	125						
	150						
	160						
	175						
	200						
	250						
	300						

d3	l	d1	l1	d4	d2	k	r
6	75	3.5	45	4.0	12	5	0.5
	100						
	125						
	150						
	160						
	175						
	200						
	250						
	300						
6	75	4.0	45	4.3	12	5	0.5
	100						
	125						
	150						
	160						
	175						
	200						
	250						
	300						
	350						
	400						
	450						
	500						

d3	l	d1	l1	d4	d2	k	r
8	75	5.0	45	5.3	14	5	0.5
	100						
	125						
	150						
	160						
	175						
	200						
	250						
	300						
	350						
	400						
	450						
	500						
10	75	6	45	6.3	16	5	0.5
	100						
	125						
	150						
	160						
	175						
	200						
	250						
	300						
	350						
	400						
	450						
	500						
12	75	8	45	8.3	20	7	0.8
	100						
	125						
	150						
	160						
	175						

d3	l	d1	l1	d4	d2	k	r
12	200	8	45	8.3	20	7	0.8
	250						
	300						
	350						
	400						
	450						
	500						
14	75	10	50	10.3	22	7	0.8
	100						
	125						
	150						
	160						
	175						
	200						
	250						
	300						
	350						
	400						
	450						
	500						
16	75	12	50	12.3	22	7	0.8
	100						
	125						
	150						
	160						
	175						
	200						
	250						
	300						
	350						
	400						
	450						
	500						

Order:
SMB. d1 x d3 x l

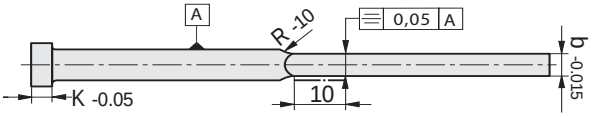


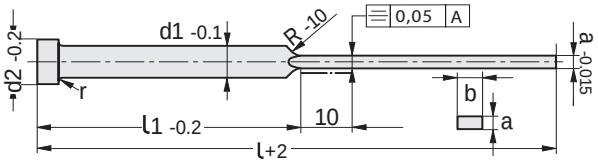
Code: SPLAH

Material: 1.2516 WS (Hardened)
Head Hardness: 45 ± 2 HRC
Body Hardness: 60 ± 2 HRC
Heat Resistance: 220⁰ max.

Blade Ejector Pin - Hardened / ISO 8693 (DIN 1530 F) Form: FAH

Our standard stocks are created from Type-A. Type-B & Type-C are as per request.



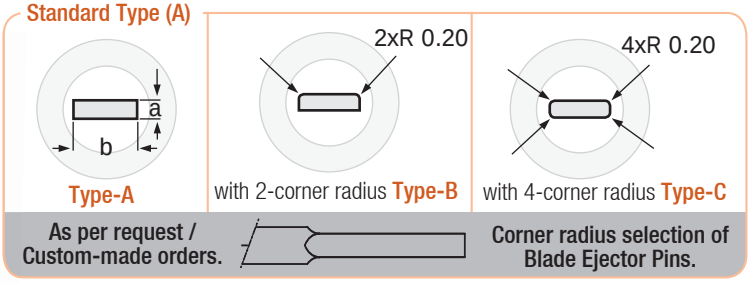


a	b	d1	l	l1
1.5	5.5	6.0	100	50
			125	60
			160	80
			200	100
			250	125
			315	160
1.5	7.5	8.0	100	50
			125	60
			160	80
			200	100
			250	125
			315	160
			400	200
1.5	9.5	10	160	80
			200	100
			250	125
			315	160
			400	200
2.0	5.5	6.0	100	50
			125	60
			160	80
			200	100
			250	125
			315	160
2.0	7.5	8.0	125	60
			160	80
			200	100
			250	125
			315	160
			400	200
2.0	9.5	10	160	80
			200	100
			250	125
			315	160
			400	200
2.0	11.5	12	160	80
			200	100
			250	125
			315	160
2.5	11.5	12	200	100
			250	125
			315	160

a	b	d1	l	l1
1.2	3.5	4.0	80	40
			100	50
			125	60
			160	80
			200	100
			250	125
1.2	4.5	5.0	80	40
			100	50
			125	60
			160	80
			200	100
			250	125
			315	160
1.2	5.5	6.0	80	40
			100	50
			125	60
			160	80
			200	100
			250	125
			315	160
1.2	7.5	8.0	80	40
			100	50
			125	60
			160	80
			200	100
			250	125
			315	160
			400	200
1.5	4.5	5.0	100	50
			125	60
			160	80
			200	100
			250	125
			315	160

a	b	d1	l	l1
0.8	3.5	4.0	80	40
			100	50
			125	60
			160	80
0.8	4.5	5.0	100	50
			125	60
			160	80
			200	100
			250	125
0.8	5.5	6.0	100	50
			125	60
			160	80
			200	100
			250	125
1.0	4.5	5.0	80	40
			100	50
			125	60
			160	80
			200	100
			250	125
			315	160
1.0	5.5	6.0	80	40
			100	50
			125	60
			160	80
			200	100
			250	125
			315	160
1.0	7.5	8.0	100	50
			125	60
			160	80
			200	100
			250	125
			315	160

Order: **SPLAH.** a x b x d1 x l
(Standard Type-A)

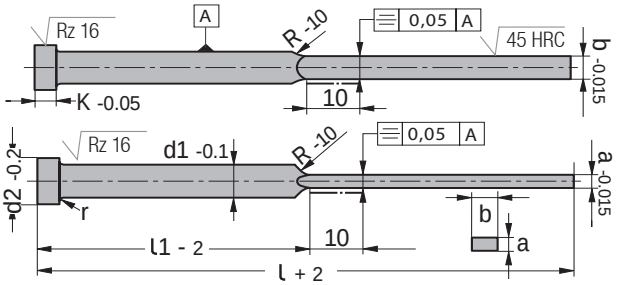


Blade Ejector Pin - Nitrided and Oxidation Coated / ISO 8693 (DIN 1530 F) Form: FA

Code: SPW

Our standard stocks are created from Type-A. Type-B & Type-C are as per request.

Material: 1.2343 Plasma Nitrided + Oxidation Coated
Heat Resistance with Lubricating Grease: 1400º max.
Heat Resistance: 650º max. (without lub. grease)



a	b	d1	l	l1
0.8	3.5	4.0	80	40
			100	50
			125	60
1.0	4.5	5.0	80	40
			100	50
			125	60
			160	80
1.0	5.5	6.0	80	40
			100	50
			125	60
			160	80
1.2	3.5	4.0	80	40
			100	50
			125	60
			160	80
1.2	4.5	5.0	80	40
			100	50
			125	60
			160	80
1.2	5.5	6.0	80	40
			100	50
			125	60
			160	80
1.2	7.5	8.0	80	40
			100	50
			125	60
			160	80
			200	100
1.5	4.5	5.0	100	50
			125	60
			160	80
			200	100

a	b	d1	l	l1
1.5	5.5	6.0	100	50
			125	60
			160	80
			200	100
1.5	7.5	8.0	125	60
			160	80
			200	100
			250	125
1.5	9.5	10	160	80
			200	100
			250	125
			315	160
2.0	5.5	6.0	100	50
			125	60
			160	80
			200	100
2.0	7.5	8.0	160	80
			200	100
			250	125
			315	160
2.0	9.5	10	200	100
			250	125
			315	160
			400	200
2.0	11.5	12	200	100
			250	125
			315	160
			400	200
2.5	11.5	12	200	100
			250	125
			315	160
			400	200

Order:
SPW. a x b x d1 x l
(Standard Type-A)

Order Example:
SPW. 1.2 x 3.5 x 4 x 100

Code: AWF1400

Code: W150200 & W160200

High Temperature Ejector Pin Greases

High temperature lubricating greases for Ejector Pins & Core Systems.

Our special greases are consists well refined mineral oils and EP additives providing lubricity as film strip between other mould parts and mould parts that do not affect from high temperature of ejector systems and core systems in working mould in high temperature such as metal injection. Thanks to solid lubricants and additives, it has comfortable operation (working without load). It has high heat insulation and provides resistance up to 1400ºC. It is in film strip position of surfaces between parts.
Even at very high temperature, it prevents sticking each other.
It is produced from vegetable oils and not harmful to the health.

Advantage of using AWF1400 lubricating greases:

* It is resistant against oxidization and friction.
* It is resistant to corrosion and abrasion.
* It is silicium and white (it does not make any contamination on mould).
* It Is resistant against water and humidity (water proof).
* Due to dust atmosphere as casting moulds, the user's hands are not painted black. It is a very good protector.
* It does not cause any reaction on surfaces.

Order Code	(custom-engineered)
AWF1400.01	**1Kg.** (canister)
AWF1400.03	**40g.** (mini tube with sponge)

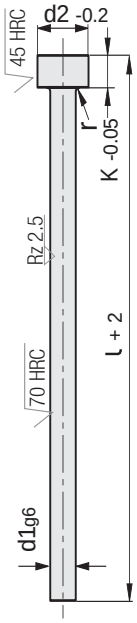
Order Code	(standard type)
W150200	**1Kg.** (plastic can)
W160200	**400ml.** (spray)

Code: SBMAV03

Cylinder Head Ejector Pin
Plasma Nitrided and Oxidation Coated
DIN 1530-1 Form A

Material: 1.2343 Plasma Nitrided + Oxidation Coated
Heat Resistance with Lubricating Grease: 1400° max.
Heat Resistance: 650° max. (without lub. grease)
Head Hardness: 45 ± 5 HRC
Body Hardness: 44 HRC
Oxidation Clad Body Hardness: 70 HRC
Tensile Resistance: 1450 N / mm²

Our "SBMAV03" ejector pins are produced by high level / special Plasma Nitriding + Oxidation Coating methods.



d1	l	d2	k
14	100	22	7
	125		
	160		
	200		
	250		
	315		
	400		
	500		
	630		
	800		r
	1000		0.8
16	100	22	7
	125		
	160		
	200		
	250		
	315		
	400		
	500		
	630		
	800		r
	1000		0.8
18	100	24	7
	125		
	160		
	200		
	250		
	315		
	400		
	500		r
	630		0.8
20	125	26	8
	160		
	200		
	250		
	315		
	400		
	500		
	630		
	800		r
	1000		1.0
25	125	32	10
	160		
	200		
	250		
	315		
	400		
	500		
	630		r
	800		1.0

d1	l	d2	k
10	100	16	5
	125		
	160		
	200		
	250		
	315		
	400		
	500		
	630		
	800		r
	1000		0.5
10.2	125	16	5
	250		
	500		
10.5	100	16	5
	125		
	160		
	200		
	250		
	315		
	400		r
	500		0.5
11.5	100	16	5
11	100	16	5
	125		
	160		
	200		
	250		
	315		
	400		r
	500		0.5
12	100	18	7
	125		
	160		
	200		
	250		
	315		
	400		
	500		
	630		
	800		r
	1000		0.8
12.5	100	18	7
	125		
	160		
	200		
	250		
	315		
	400		
	500		r
	630		0.8
13	100	18	7
	125		
	160		
	200		
	250		
	315		
	400		r
	500		0.8

d1	l	d2	k
6.5	100	12	5
	125		
	160		
	200		
	250		
	315		
	400		r
	500		0.5
7.0	100	12	5
	125		
	160		
	200		
	250		
	315		
	400		
	500		r
	630		0.5
	800		
7.5	100	12	5
	125		
	160		
	200		
	250		
	315		
	400		
	500		r
	800		0.5
8.0	100	14	5
	125		
	160		
	200		
	250		
	315		
	400		
	500		
	630		
	800		r
	1000		0.5
8.2	100	14	5
	160		r
	250		0.5
8.5	100	14	5
	125		
	160		
	200		
	250		
	315		
	400		
	500		r
	630		0.5
9.0	100	14	5
	125		
	160		
	200		
	250		
	315		
	400		
	500		
	630		r
	800		0.5
9.5	100	14	5
	125		
	160		
	200		
	250		
	315		r
	400		0.5

d1	l	d2	k
5.0	100	10	3
	125		
	160		
	200		
	250		
	315		
	400		
	500		
	630		r
	800		0.3
5.2	100	10	3
	200		
5.5	100	10	3
	125		
	160		
	200		
	250		
	315		
	400		
	500		r
	630		0.3
6.0	100	12	5
	125		
	160		
	200		
	250		
	315		
	400		
	500		
	630		
	800		r
	1000		0.5
6.2	100	12	5
	125		
	160		r
	250		0.5

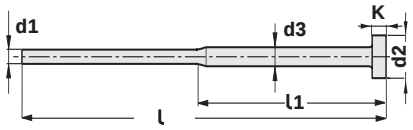
d1	l	d2	k
3.2	100	6	3
	160		
3.5	100	7	3
	125		
	160		
	200		
	250		
	315		
	400		
	500		r
	630		0.3
3.7	100	7	3
	160		
4.0	100	8	3
	125		
	160		
	200		
	250		
	315		
	400		
	500		
	630		r
	800		0.3
4.2	100	8	3
	200		
4.5	100	8	3
	125		
	160		
	200		
	250		
	315		
	400		
	500		r
	630		0.3

d1	l	d2	k
1.5	100	3	1.5
	125		
	160		r
	200		0.2
2.0	100	4	2
	125		
	160		
	200		
	250		
	315		
	400		
	500		r
	630		0.2
2.2	100	5	2
	160		
2.5	100	5	2
	125		
	160		
	200		
	250		
	315		
	400		r
	500		0.3
2.7	100	5	2
	160		
3.0	100	6	3
	125		
	160		
	200		
	250		
	315		
	400		
	500		r
	630		0.3

Order:
SBMAV03. d1 x l

Order Example:
SBMAV03. 14 x 315

For your order of special dimensions, technical drawing can be used:

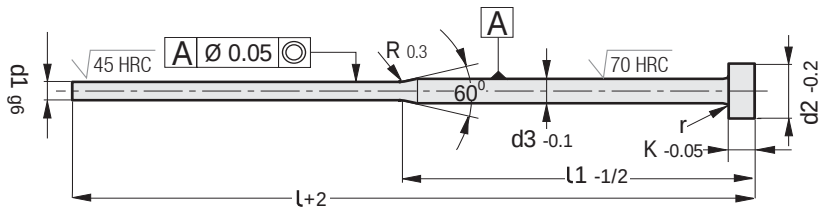


As per request / Custom-made orders.

Stepped Ejector Pin - Nitrided and Oxidation Coated
ISO 8694 (DIN 1530 Form C)

Code: SBW

Material: 1.2343 Plasma Nitrided + Oxidation Coated
Heat Resistance with Lubricating Grease: 1400⁰ max.
Heat Resistance: 650⁰ max. (without lub. grease)



Code: SBW

d1	l	l1	d3	d2	k	r
0.8	100	50	2	4	2	0.2
	125	50				
	160	75				
0.9	100	50	2	4	2	0.2
	125	50				
	160	75				
1.0	100	50	2	4	2	0.2
	125	50				
	160	75				
	200	75				
1.1	100	50	2	4	2	0.2
	125	50				
	160	75				
1.2	100	50	2	4	2	0.2
	125	50				
	160	75				
1.3	100	50	2	4	2	0.2
	125	50				
	160	75				

d1	l	l1	d3	d2	k	r
1.4	100	50	2	4	2	0.2
	125	50				
	160	75				
1.5	100	50	3	6	3	0.3
	125	50				
	160	75				
	200	75				
2.0	100	50	3	6	3	0.3
	125	50				
	160	75				
	200	75				
2.5	100	50	3	6	3	0.3
	125	50				
	160	75				
	200	75				

Order:
SBW. d1 x d3 x l1 x l

Order Example:
SBW. 2 x 3 x 75 x 160

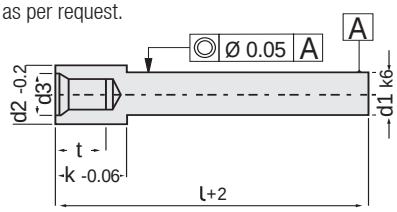
Code: SBD

Ejector Pin - Threaded
DIN 1530 - A / ISO 6751

In-mould (ejector plate & core/lifter) usage.
It has pin mounting feature without dismantling other mould parts.

Material: 1.2343 Ground and Hardened
Tensile Resistance: 1400 N / mm²

Our custom-made production is available as per request.



Code: SBD

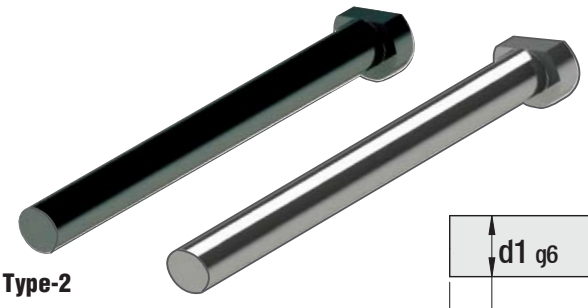
d1	l	d3	t	k	d2
3	63	M4	5	10	6
	125				
4	63	M5	7	12	8
	125				
5	80	M6	9	14	9
	160				
6	80	M6	9	14	10
	160				
8	80	M6	10	16	13
	160				
10	100	M10	12	18	15
	200				
12	100	M12	14	22	18
	200				
14	100	M12	14	22	20
	200				

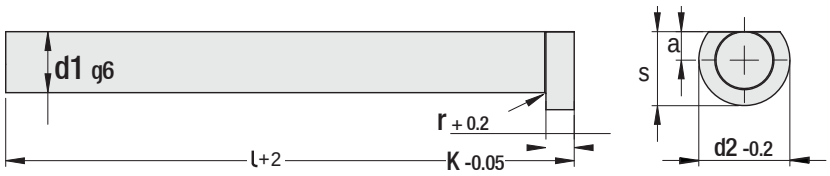
Order:
SBD. d1 x l x d3

Ejector Pin with Locking Head (Anti-Rotating)

Code: SDI

The new generation of ejector pins with locking head allows the precise centring of individually contoured ejector or core pins in the mould.
The centring ensures a precise mounting position within the mould.





Type-1

Material: 1.2516 WS
Head Hardness: 45 ± 2 HRC
Body Hardness: 60 ± 2 HRC
Heat Resistance: 220⁰ max.
Tensile Resistance: 1300 N / mm²

Type-2

Material: 1.2343 Plasma Nitrided + Oxidation Coated
Heat Resistance with Lubricating Grease: 1400⁰ max.
Heat Resistance: 650⁰ max. (without lub. grease)
Head Hardness: 45 ± 5 HRC
Body Hardness: 44 HRC
Oxidation Clad Body Hardness: 70 HRC
Tensile Resistance: 1450 N / mm²

d1	l	d2	K	a	s
3.0	100	6	3	1.5	4.5
	125				
	160				
	200				
	250				
	315				
	400				
	500				
3.5	100	7	3	1.75	5.25
	125				
	160				
	200				
	250				
4.0	100	8	3	2	6
	125				
	160				
	200				
	250				
	315				
	400				
4.5	100	8	3	2.25	6.25
	125				
	160				
	200				
	250				
5.0	100	10	3	2.5	7.5
	125				
	160				
	200				
	250				
	315				
	400				
	500				

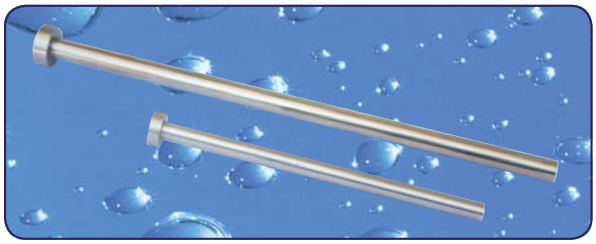
d1	l	d2	K	a	s
5.5	100	10	3	2.75	7.75
	125				
	160				
	200				
	250				
6.0	100	12	5	3	9
	125				
	160				
	200				
	250				
	315				
	400				
7.0	100	12	5	3.5	9.5
	125				
	160				
	200				
	250				
	315				
7.5	100	12	5	3.75	9.75
	125				
	160				
	200				
	250				
	315				
8	100	14	5	4	11
	125				
	160				
	200				
	250				
	315				
	400				
	500				

d1	l	d2	K	a	s
8.5	100	14	5	4.25	11.25
	125				
	160				
	200				
	250				
	315				
9	100	14	5	4.5	11.5
	125				
	160				
	200				
	250				
	315				
10	100	16	5	5	13
	125				
	160				
	200				
	250				
	315				
	400				
	500				
11	100	16	5	5.5	13.5
	125				
	160				
	200				
	250				
	315				
	400				
12	100	18	7	6	15
	125				
	160				
	200				
	250				
	315				
	400				
	500				

d1	l	d2	K	a	s
14	100	22	7	7	18
	125				
	160				
	200				
	250				
	315				
16	100	22	7	8	19
	125				
	160				
	200				
	250				
	315				
	400				
	500				
20	100	26	8	10	23
	125				
	160				
	200				
	250				
	315				
	400				
	500				
25	100	32	10	12.5	28.5
	125				
	160				
	200				
	250				
	315				
	400				
	500				

Note: Our custom-made production is available as per request.

Order: SDI. d1 x l x Type



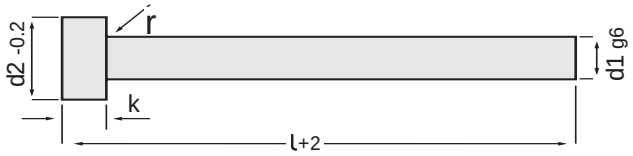
Ejector Pin - Stainless / INOX

Code: SPI

ISO 6751, DIN 1530 Form: AH

"SPI" Ejector Pins are compatible with medicine and food industry standards. The ejector pins has been produced to avoid corrosion problems. They are anti-magnetic products resistant to corrosion and acids for production in severe climate conditions in chemistry / medicine and food industry, also in hygienic places.

Material: 1.4125 INOX
Body Hardness: 56 + 2 HRC
Heat Resistance: 180° max.
Head Hardness: 45 ± 5 HRC



Code: SPI

d1	l	d2	k	r
4.5	100 160 200 250	8	2	0.3
5.0	100 160 200 250	10	2	0.3
5.5	100 160 200 250	10	2	0.3
6.0	100 160 200 250	12	5	0.5
8.0	100 160 200 250	14	5	0.5

d1	l	d2	k	r
2.0	100 160 200 250	4	2	0.2
2.5	100 160 200 250	5	2	0.3
3.0	100 160 200 250	6	2	0.3
3.5	100 160 200 250	7	2	0.3
4.0	100 160 200 250	8	2	0.3

Order:
SPI. d1 x l

Order Example:
SPI. 5 x 200

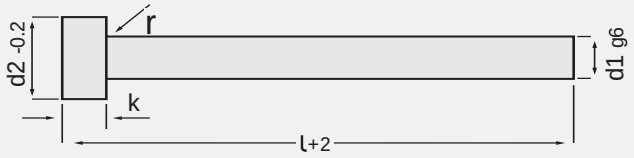
Ejector Pin - Copper Alloy

Code: SPPAV07

ISO 6751, DIN 1530 Form: AH

"SPPAV07" Ejector Pins are produced with added copper / Cbn (nickel bornite) into material during production. Considerably higher heat conductivity. The cooling for the desired area of mould is provided very quickly without deviating the targeted area. Due to thermal optimisation, very high quality product is obtained from moulds under optimum temperature. Also, due to thermal optimisation again, production time per part is shortened as 30%. By changing according to the material, the heat conductivity is x6 times higher than standard ejector pins. There is no need to use pin lubricating oil for Copper Ejector Pins. Even after cooling, it does not lose its conductivity, does not deform, it can be welded, soldered, ground and polished. However, coated products cannot be machining on the lathe or milling machine.

Material: Copper Alloy
Body Hardness: HRC min. 180 HB
Head Hardness: HRC min. 180 HB
Tensile Resistance: ~650 N/mm²
Heat Conductivity: ~200 W/mK
Surface Roughnes: Ra <0.8 Micron



Code: SPPAV07

d1	l	d2	k	r
2.0	100 160	4	2	0.2
2.5	100 160	5	2	0.3
3.0	100 160 250	6	3	0.3
3.5	100 160	7	3	0.3
4.0	100 160 250	8	3	0.3
4.5	100 160	8	3	0.3
5.0	100 160 250	10	3	0.3
6.0	100 160 250 315	12	5	0.5

d1	l	d2	k	r
7.0	100 160 250	12	5	0.5
8.0	100 160 250 315	14	5	0.5
10	100 160 250 315 400	16	5	0.5
12	100 160 250 315 400	18	7	0.8
14	160 250 400	22	7	0.8
16	160 250 400 500	22	7	0.8

Order:
SPPAV07. d1 x l