

Why Güvenal



Features that Distinguish Güvenal Ejector Pins from its Counterparts

	Stable fitting-operation possibilities (rigid system & tight fitting) with the head top surface grinding processes ($Ra\ 3.2\ \checkmark$).	 DIN 1.2343 MATERIAL X 40 Cr Mo V 51 Nitrided	During injection, 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.	 OXIDATION COATING	- 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 ($Ra\ 0.8\ \checkmark$) = more durable operation life compared to the similar products.	 600°	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 Güvenal 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 plasma nitriding + oxidation coating pins (like cheap series from Far East). You can use Güvenal "**SBMAV03**" with confidence.



info@guvenal.net - www.guvenal.net

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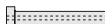
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Ejector Pins



OVERVIEW: GÜVENAL EJECTORS AND CORE PINS



Material Type	1.2516 WS	1.2516 WS DLC	1.2343 Nitrided	1.2343 Plasma Nitrided + Oxidation Coated	1.2343	1.2344	1.4125 INOX	Copper
Ejector pin, straight and cylinder head	SBIAH 	SBDLC 		SBMAV03 			SPI 	SPPAV07 
Ejector pin, conical head	HBI 							
Ejector pin with locking head	SDIT 1 			SDIT 2 				
Stepped ejector pin	SBKAH 	SBKDLC 		SBW 				
Ejector sleeve			SMB 					
Blade ejector pin	SPLAH 	SLADLC 		SPWA 				
Blade ejector pin with x2 r	SPLBH 	SLBDLC 		SPWB 				
Blade ejector pin with x4 r	SPLCH 	SLCDLC 		SPWC 				
Core pin with locking head					SBD 	SBCP 		
Ejector pin for ventilation				SBGTP 				
Sprue puller pin form A				G179A 				
Sprue puller pin form B				G179B 				
Sprue puller pin form C				G179C 				

GÜVENAL EJECTOR PINS – SELECTION GUIDE



Code	Material	Surface Optimization	Hardness	Heat Resistance (max.)	Wear Resistance	Non-lubricated Performance	Corrosion Resistance	Cleanroom Compatibility	Technical Advice
SBI AH – HBI – SDIT 1 SBKAH – SPLAH SPLBH – SPLCH	1.2516 WS	-	60 HRC	220°	●●○○	—	●○○○	-	Standard ejector material offering the ideal balance of hardness, increased wear resistance, and durability.
SBDLC – SBKDL SLADLC – SLBDLC SLCDLC	1.2516 WS	DLC	60 HRC DLC: 3000 HV	220°	●●●●	●●●●	●●●●	✓	Ideal for long service life with glass fibre-reinforced plastics and also well-suited for clean-room applications due to their lubricant-free dry cycle properties. Leaves no stains on plastic parts.
SMB	1.2343	Nitrided	60 HRC	550°	●●●○	—	●●○○	-	For extremely high mould temperatures, such as when working with advanced plastics.
SBMAV03 – SDIT 2 SBW – SPWA – SPWB SPWC – SBGTP – G179A G179B – G179C	1.2343	Plasma Nitrided + Oxidation Coated	70 HRC Core: 44 HRC	650° (with Güvenal GTH400= 1400°)	●●●○	●●○○	●●●○	-	For extremely high mould temperatures, such as when working with advanced plastics. Designed specifically for die casting, the oxide layer prevents molten metal from sticking to the surface.
SBD	1.2343	-	45-48 HRC	550°	●○○○	—	●○○○	-	Resistant to hot cracking, making it an ideal choice for core pins in die casting.
SBCP	1.2344	-	52 HRC	500°	●○○○	—	●○○○	-	Making it an excellent option for core pins in die casting. Perfect for core pins requiring mirror polishing.
SPI	1.4125 (INOX)	-	56 HRC	180°	●●○○	—	●●●●	✓	For processing chemically aggressive plastics that generate gas.
SPPAV07	Copper (Cu)	-	650 N/mm²	300°	—	●●○○	●○○○	-	Rapid and precise cooling of mould cores using a special high-resistance copper alloy.

— Very Poor ●○○○ Poor ●●○○ Moderate ●●○○ Good ●●●● Excellent

Ejector Pins

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New Ejector Pins with Diamond-like Carbon (DLC) Coating

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The new DLC ejector pins are particularly well-suited for high mould temperatures in die casting and injection moulding, ensuring an extended service life.

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Thanks to the DLC coating, they are also ideal for clean-room applications. The DLC coating significantly enhances the service life of the ejector pins, even when used with abrasive glass fibre-reinforced plastics.

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Additionally, their lubricant-free dry cycle properties make them perfect for clean-room environments.

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Güvenal ejector pins provide excellent demoulding assistance for all applications, ensuring reliable and efficient demoulding of even the most complex product batches.

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DLC coating is especially beneficial for applications involving motion or friction in mould making, such as ejection, guiding, and centering. With the DLC coating, it is possible to operate completely lubricant-free..

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ADVANTAGES OF THE NEW GÜVENAL DLC COATED EJECTOR PINS:

- High corrosion resistance and long service life.
- Ideal for long service life with glass fibre-reinforced plastics and also well-suited for clean-room applications due to their lubricant-free dry cycle properties.
- Minimizes wear due to excellent sliding properties.
- Leaves no stains on plastic parts.

Coating Data:

Hardness: 2400 - 3000 HV

Thickness: ~ 1.5 - 2 µm

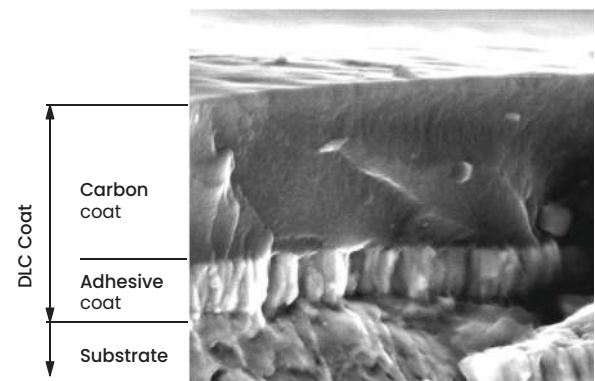
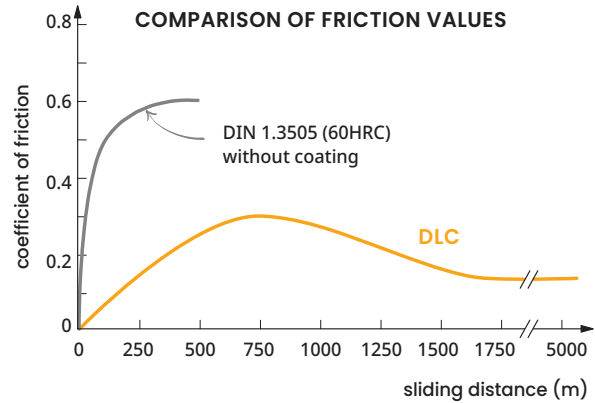
Coefficient of friction against steel: 0.1 - 0.15

Temperature resistance: 220°C



DLC coated high-quality standard components to ensure a longer service life for your moulds.

Ejector Pins



NEW SERIES

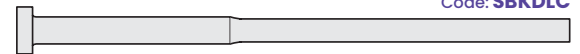
DLC Coated Ejector Pin - Cylinder Head

Code: **SBDLC**



DLC Coated Cylinder Head Stepped Ejector Pin

Code: **SBKDL**



DLC Coated Blade Ejector Pin - Hardened

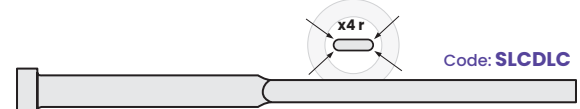
Code: **SLADLC**



Code: **SLBDLC**

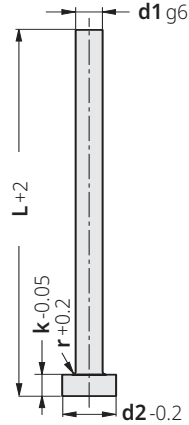


Code: **SLCDLC**



d1	L	d2	k
1	100 200	2.5	1.2
	125 250		
	160 315		
1.1	100	2.5	1.2
1.2	100	2.5	1.2
	160		
1.3	100	3	1.5
	160		
1.4	100	3	1.5
	160		
1.5	100 200	3	1.5
	125 250		
	160 315		
1.6	100	3	1.5
	160		
1.7	100	3	1.5
	160		
1.8	100	3	1.5
	160		
1.9	100	3	1.5
	160		
2	100 250	4	2
	125 315		
	160 400		
	200 500		
2.2	100	4	2
	160		
2.3	100	4	2
2.4	100	4	2
	160		
2.5	100 250	5	2
	125 315		
	160 400		
	200 500		
2.7	100	5	2
	160		
3	100 315	6	3
	125 400		
	160 500		
	200 630		
3.2	100	6	3
	160		
3.5	100 250	7	3
	125 315		
	160 400		
	200 500		

d1	L	d2	k
3.7	100	7	3
	160		
4	100 400	8	3
	125 500		
	160 630		
	200 800		
	250 1000		
4.1	100	8	3
	160		
4.2	100	8	3
	160		
4.5	100 250	8	3
	125 315		
	160 400		
	200 500		
5	100 400	10	3
	125 500		
	160 630		
	200 800		
	250 1000		
	315		
5.2	100 315	10	3
	200 400		
5.5	100 250	10	3
	125 315		
	160 400		
	200 500		
6	100 400	12	5
	125 500		
	160 630		
	200 800		
	250 1000		
	315		
6.2	100	12	5
	160		
	250		
6.5	100 315	12	5
	125 400		
	160 500		
	200 630		
	250		
7	100 315	12	5
	125 400		
	160 500		
	200 1000		
	250		



NEW **DLC**
Lubricant-free



DLC Coated Ejector Pin - Cylinder Head

ISO 6751, DIN 1530 - Form: AH

Code: **SBDLC**

d1	L	d2	k
7.5	100 250	12	5
	125 315		
	160 400		
	200		
8	100 400	14	5
	125 500		
	160 630		
	200 800		
	250 1000		
	315		
8.2	100	14	5
	160		
	250		
8.5	100 315	14	5
	125 400		
	160 500		
	200 630		
9	100 315	14	5
	125 400		
	160 500		
	200 630		
10	100 400	16	5
	125 500		
	160 630		
	200 800		

d1	L	d2	k
10.2	125	16	5
	250		
10.5	100 200	16	5
	125 315		
	160 400		
11	100 250	16	5
	125 315		
	160 400		
	200		
12	100 400	18	7
	125 500		
	160 630		
	200 800		
	250 1000		
13	100 250	18	7
	125 315		
	160 400		
	200		
14	100 400	22	7
	125 500		
	160 630		
	200 800		
	250 1000		

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

Heat Resistance:

220° max.

Tensile Resistance:

1300 N / mm²



Order: **SBDLC**. d1 x L



Material: 1.2516 WS
Hardness: 60 ± 2 HRC

Ejector Pins

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NEW

DLC

Lubricant-free



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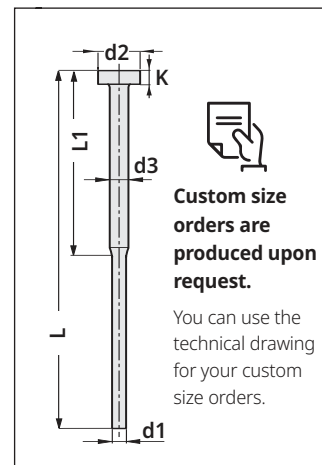
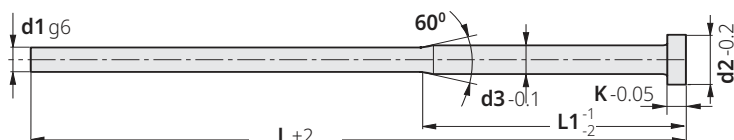
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Ejector Pins

Code: **SBKDL**

DLC Coated Cylinder Head Stepped Ejector Pin / DIN ISO 8694



d1	L	L1	d3	d2	k
0.8	63	25	2	4	2
	80	35			
	100	50			
	125				
	150				
	160				
1	63	25	2	4	2
	80	35			
	100	50			
	125				
	150				
	160				
	200				
1.1	63	25	2	4	2
	80	35			
	100	50			
	125				
	150				
	160				
1.2	63	25	2	4	2
	80	35			
	100	50			
	125				
	150				
	160				
1.3	63	25	2	4	2
	80	35			
	100	50			
	125				
	150				
	160				

d1	L	L1	d3	d2	k
1.4	63	25	2	4	2
	80	35			
	100	50			
	125				
	150				
	160				
1.5	63	25	3	6	3
	80	35			
	100	50			
	125				
	150				
	160				
	200				
1.6	80	35	3	6	3
	100	50			
	125				
	150				
	160				
	200				
1.7	80	35	3	6	3
	100	50			
	125				
	150				
	160				
	200				
1.8	80	35	3	6	3
	100	50			
	125				
	150				
	160				
	200				

d1	L	L1	d3	d2	k
2	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: **SBKDL**. d1 x d3 x L1 x L

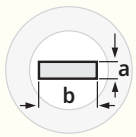


Material: 1.2516 WS
Head Hardness: 45 ± 2 HRC
Body Hardness: 60 ± 2 HRC

Heat Resistance: 220⁰ max.
Tensile Resistance:
 1300 N / mm²

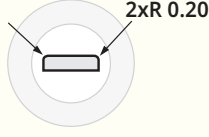
Custom size orders are produced upon request.

Code: **SLADLC**



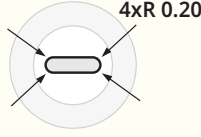
Type: **A**

Code: **SLBDLC**



Type: **B**
with 2-corner radius

Code: **SLCDLC**



Type: **C**
with 4-corner radius

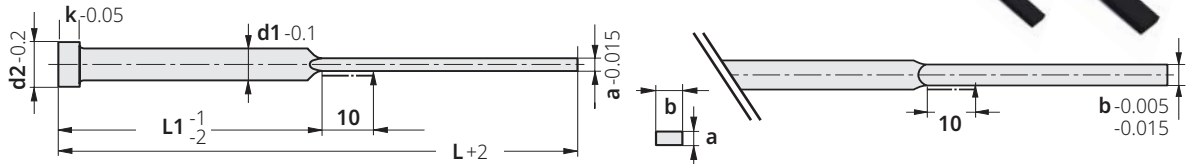
NEW

DLC

Lubricant-free



CLEANROOM ✓



DLC Coated Blade Ejector Pin - Hardened / ISO 8693 - DIN 1530 F

Code: **SLADLC**

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

Form: FAH

a	b	d1	d2	k	L	L1
0.5	2.8	3	6	3	80	40
					100	50
					125	60
					160	80
0.6	2.8	3	6	3	80	40
					100	50
					125	60
					160	80
0.8	2.8	3	6	3	80	40
					100	50
					125	60
					160	80
0.8	3.5	4	8	3	80	40
					100	50
					125	60
					160	80
0.8	3.8	4.2	8	3	80	40
					100	50
					125	60
					160	80
0.8	4.5	5	10	3	100	50
					125	60
					160	80
					200	100
0.8	5.5	6	12	5	100	50
					125	60
					160	80
					200	100

a	b	d1	d2	k	L	L1
1	3.8	4.2	8	3	80	40
					100	50
					125	60
					160	80
1	4.5	5	10	3	80	40
					100	50
					125	60
					160	80
1	5.5	6	12	5	80	40
					100	50
					125	60
					160	80
1	7.5	8	14	5	100	50
					125	60
					160	80
					200	100
1.2	3.5	4	8	3	80	40
					100	50
					125	60
					160	80
1.2	3.8	4.2	8	3	80	40
					100	50
					125	60
					160	80

a	b	d1	d2	k	L	L1
1.2	4.5	5	10	3	80	40
					100	50
					125	60
					160	80
1.2	5.5	6	12	5	80	40
					100	50
					125	60
					160	80
1.2	7.5	8	14	5	100	50
					125	60
					160	80
					200	100
1.5	4.5	5	10	3	80	40
					100	50
					125	60
					160	80
1.5	5.5	6	12	5	80	40
					100	50
					125	60
					160	80

a	b	d1	d2	k	L	L1
1.5	7.5	8	14	5	100	50
					125	60
					160	80
					200	100
1.5	9.5	10	16	5	100	50
					125	60
					160	80
					200	100
2	5.5	6	12	5	100	50
					125	60
					160	80
					200	100
2	7.5	8	14	5	100	50
					125	60
					160	80
					200	100
2	9.5	10	16	5	100	50
					125	60
					160	80
					200	100
2	11.5	12	18	7	100	50
					125	60
					160	80
					200	100
2.5	11.5	12	18	7	100	50
					125	60
					160	80
					200	100

(Standard Type-A)



Order:
SLADLC. a x b x d1 x L



Material: 1.2516 WS (Hardened)

Head Hardness: 45 ± 2 HRC

Body Hardness: 60 ± 2 HRC

Heat Resistance: 220⁰ max.

Tensile Resistance: 1300 N / mm²

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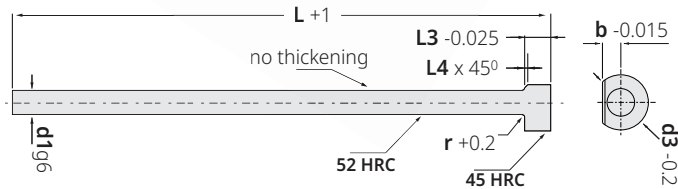
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Ejector Pins



NEW



Core Pin / Anti-twist Head

Code: **SBCP**

DIN 1530 - 1 A

- Precise anti-twist lock on head.
- Made of high-quality, thermal shock-resistant hot work steel 1.2344.
- High core hardness makes it ideal for use in pressure **die casting** and at high temperatures.
- No thickening on the shank, complete grinding after compression.

d1	L	b	r	L3	L4	d3
1.5	125	1.05	0.2	1.5	0.15	3
	200					
1.6	125	1.1	0.2	1.5	0.15	3
1.8	125	1.2	0.2	1.5	0.15	3
2	125	1.5	0.2	2	0.25	4
	200					
2.2	125	1.6	0.2	2	0.25	4
2.5	125	1.75	0.3	2	0.25	5
	200					
2.7	125	1.85	0.3	2	0.25	5
	200					
3	125	2	0.3	3	0.25	6
	200					
3.2	125	2.1	0.3	3	0.25	6
	200					
3.5	125	2.25	0.3	3	0.25	7
	200					
3.7	125	2.35	0.3	3	0.25	7
	200					
4	125	2.5	0.5	3	0.25	8
	200					
4.2	125	2.6	0.5	3	0.25	8
	200					
4.5	125	2.75	0.5	3	0.25	8
	200					

d1	L	b	r	L3	L4	d3
5	125	3.5	0.5	3	0.25	10
	200					
5.2	125	3.6	0.5	3	0.25	10
	200					
5.5	125	3.75	0.5	3	0.25	10
	200					
6	125	4	0.5	5	0.5	12
	200					
6.2	125	4.1	0.5	5	0.5	12
	200					
6.5	125	4.25	0.5	5	0.5	12
	200					
7	125	4.5	0.5	5	0.5	12
	200					
8	125	5	0.5	5	0.5	14
	200					
8.2	125	5.1	0.5	5	0.5	14
	200					
8.5	125	5.25	0.5	5	0.5	14
	200					

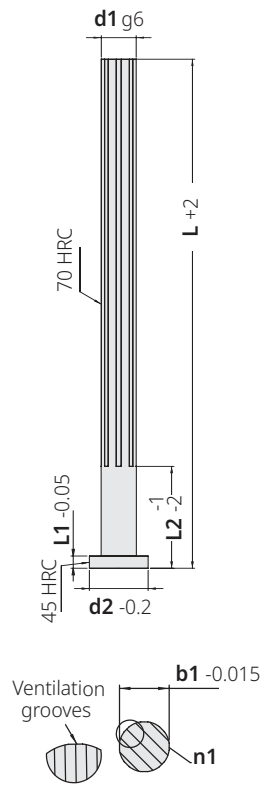
d1	L	b	r	L3	L4	d3
9	125	5.5	0.5	5	0.5	14
	200					
10	125	6	0.5	5	0.5	16
	200					
10.2	125	6.1	0.5	5	0.5	16
	200					
10.5	125	6.25	0.5	5	0.5	16
	200					
11	125	6.5	0.5	5	0.5	16
	200					
11.5	125	6.75	0.5	5	0.5	16
	200					
12	125	7	0.8	7	0.5	18
	200					
12.5	125	7.25	0.8	7	0.5	18
	200					
14	125	8.5	0.8	7	0.5	22
	200					
16	125	9.5	0.8	7	0.5	22
	200					


Order:
SBCP. d1 x L

Tensile Resistance: 1400 N / mm²
Heat Resistance: 500⁰ max.

Material: 1.2344
Hardness: 45 ± 52 HRC

NEW



Code: **SBGTP**

Ejector Pin For Ventilation

Function of Ejector Pin for Ventilation:

Melted plastic during the plastic injection process is injected into the mould. Meanwhile, air trapped inside the mould and gases arising from the plastic are optimally evacuated thanks to "SBGTP".

Field of Application:

- Plastic injection moulds
- Diecasting moulds

Regular Maintenance & Correct Placement:

Regular cleaning of "SBGTP" should be maintained. Otherwise it may become clogged and its efficiency may decrease.

Appearance of the part after injection:

Problem

Burn marks are visible surrounding the struts.



With **SBGTP**



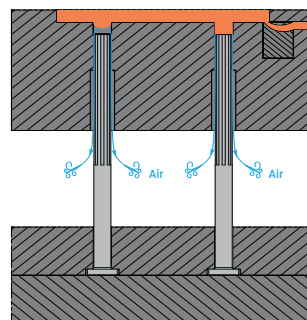
d1	L	d2	L1	L2	b1	n1		
2	100	4	2	30	1.96	4		
	160							
	200			75				
	250							
2.5	100	5	2	30	2.46	4		
	200							
3	100	6	3	30	2.96	6		
	160							
	200			75				
	250							
	315							
3.5	100	7	3	30	3.46	6		
	200							
4	100	8	3	30	3.96	6		
	160							
	200			75				
	250							
	315							
4.5	100	8	3	30	4.46	6		
	200							
5	100	10	3	30	4.96	8		
	160							
	200			75				
	250							
	315							

d1	L	d2	L1	L2	b1	n1
5.5	100	10	3	30	5.46	8
	200					
6	100	12	5	30	5.96	8
	160					
	200					
	250			75		
	315					
6.5	100	12	5	30	6.46	8
	200					
7	100	12	5	30	6.96	8
	200					
8	100	14	5	30	7.96	8
	160					
	200					
	250			75		
	315					
10	100	16	5	30	9.96	8
	160					
	200					
	250			75		
	315					
12	100	18	7	30	11.96	8
	160					
	200					
	250			75		
	315					



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

Mounting example :



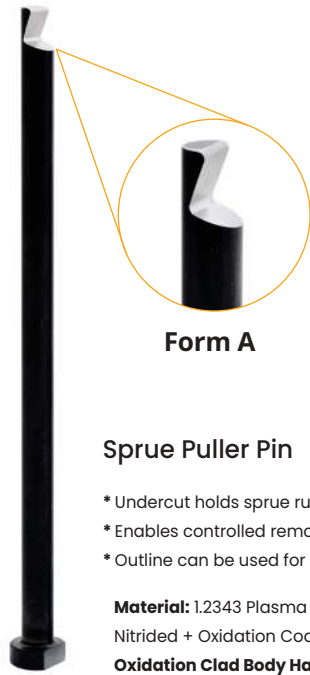
Placing the pins in the correct places in the mould it is important. Incorrect placement may result in inadequate air discharge and quality problems.



Order:
SBGTP. d1 x L

Material: 1.2343 Plasma Nitrided + Oxidation Coated
Oxidation Clad Body Hardness: 70 HRC

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18



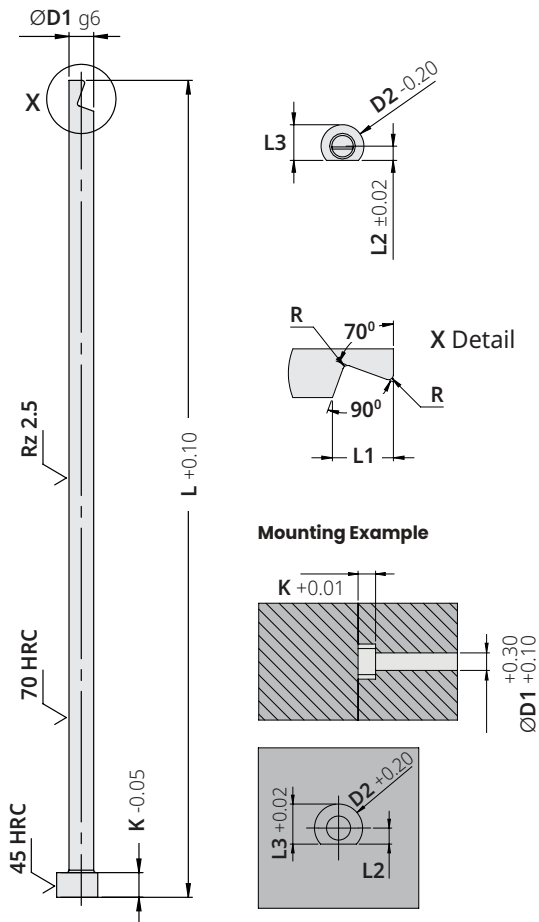
Form A

Sprue Puller Pin

Code: **G179A**

- * Undercut holds sprue runners in position
- * Enables controlled removal
- * Outline can be used for many plastics

Material: 1.2343 Plasma
Nitrided + Oxidation Coated
Oxidation Clad Body Hardness: 70 HRC



Güvenal "G179" ejector pins are produced by high level / special Plasma Nitriding + Oxidation Coating methods.

NEW



D1	D2	L	L1	L2	L3	K	R
3	6	125	3.8	2	5	3	0.3
		160					
		200					
		250					
		315					
4	8	125	5	2.5	6.5	3	0.5
		160					
		200					
		250					
		315					
5	10	125	6.2	3.5	8.5	3	0.5
		160					
		200					
		250					
		315					
6	12	125	7.5	4	10	5	1
		160					
		200					
		250					
		315					
8	14	125	10	5	12	5	1
		160					
		200					
		250					
		315					
10	16	125	12.5	6	14	5	1
		160					
		200					
		250					
		315					
12	18	125	15	7	16	7	1
		160					
		200					
		250					
		315					



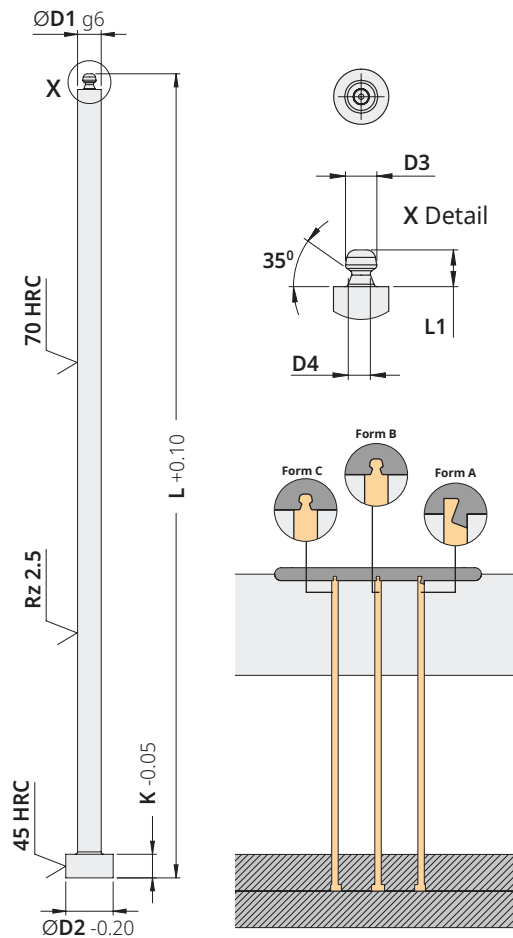
Order:
G179A. D1 x L

Heat Resistance with
Güvenal "GTH1400":
1400° max.

Tensile Resistance: 1450 N / mm²
Heat Resistance: 650° max.

Head Hardness: 45 ± 5 HRC
Body Hardness: 70 HRC

Material: 1.2343 Plasma Nitrided + Oxidation Coated
Oxidation Clad Body Hardness: 70 HRC



Güvenal "G179" ejector pins are produced by high level / special Plasma Nitriding + Oxidation Coating methods.

D1	D2	D3	D4	L	L1	L2	K
3	6	1.7	1	125	2	2	3
				160			
				200			
				250			
				315			
4	8	2	1.3	125	2	2.5	3
				160			
				200			
				250			
				315			
5	10	2.4	1.7	125	2	3.5	3
				160			
				200			
				250			
				315			
6	12	2.8	2	125	3	4	5
				160			
				200			
				250			
				315			
8	14	3.5	2.7	125	3	5	5
				160			
				200			
				250			
				315			
10	16	4.4	3.3	125	4	6	5
				160			
				200			
				250			
				315			
12	18	5	4	125	4	7	7
				160			
				200			
				250			
				315			



Order:
G179B. D1 x L

Heat Resistance with
Güvenal "GTH1400":
1400° max.

Tensile Resistance: 1450 N / mm²
Heat Resistance: 650° max.

Head Hardness: 45 ± 5 HRC
Body Hardness: 70 HRC

Material: 1.2343 Plasma Nitrided + Oxidation Coated
Oxidation Clad Body Hardness: 70 HRC

Ejector Pins

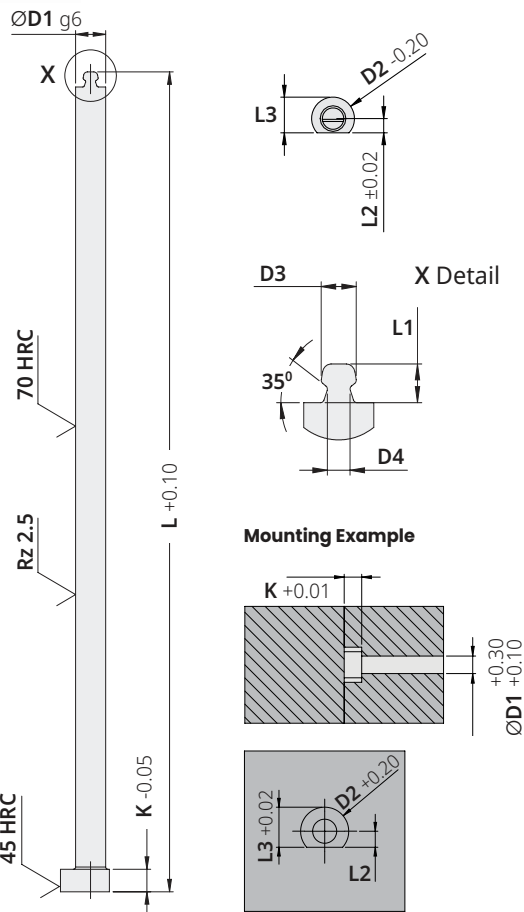


Form C

Sprue Puller Pin

Code: **G179C**

- * Undercut holds sprue runners in position
- * Enables controlled removal
- * Outline can be used for many plastics



Güvenal "G179" ejector pins are produced by high level / special Plasma Nitriding + Oxidation Coating methods.

D1	D2	D3	D4	L	L1	L2	L3	K
3	6	1.7	1	125	2	2	5	3
				160				
				200				
				250				
				315				
4	8	2	1.3	125	2	2.5	6.5	3
				160				
				200				
				250				
				315				
5	10	2.4	1.7	125	2	3.5	8.5	3
				160				
				200				
				250				
				315				
6	12	2.8	2	125	3	4	10	5
				160				
				200				
				250				
				315				
8	14	3.5	2.7	125	3	5	12	5
				160				
				200				
				250				
				315				
10	16	4.4	3.3	125	4	6	14	5
				160				
				200				
				250				
				315				
12	18	5	4	125	4	7	16	7
				160				
				200				
				250				
				315				



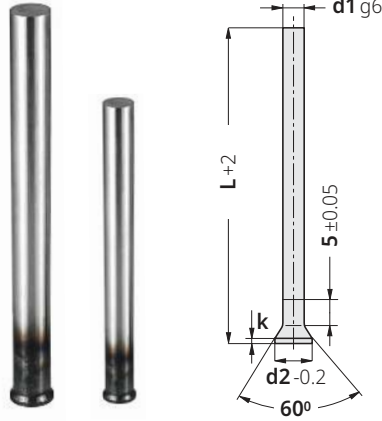
Order:
G179C. D1 x L

**Heat Resistance with
Güvenal "GTH1400":**
1400⁰ max.

Tensile Resistance: 1450 N / mm²
Heat Resistance: 650⁰ max.

Head Hardness: 45 ± 5 HRC
Body Hardness: 70 HRC

Material: 1.2343 Plasma Nitrided + Oxidation Coated
Oxidation Clad Body Hardness: 70 HRC



Ejector Pin - Conical Head
DIN 1530-D

Code: **HBI**

d1	L	d2	k
1	100	1.8	0.5
	125		
	160		
	200		
1.1	100	1.8	0.5
	125		
	160		
1.2	100	2	0.5
	125		
	160		
1.3	100	2	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		

d1	L	d2	k
1.9	100	2.8	0.5
	125		
	160		
	200		
2	100	3	0.5
	125		
	160		
	200		
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		
2.6	100	4	0.5
	125		
	160		

d1	L	d2	k
2.7	100	4	0.5
	125		
	160		
2.8	100	4	0.5
	125		
	160		
2.9	100	4	0.5
	125		
	160		
3	100	4.5	0.5
	125		
	160		
	200		
	250		
3.1	100	4.5	0.5
	125		
	160		
3.2	100	4.5	0.5
	125		
	160		
3.3	100	4.5	0.5
	125		
	160		
3.4	100	4.5	0.5
	125		
	160		
3.5	100	5	0.5
	125		
	160		
	200		
	250		
3.6	100	5	0.5
	125		
	160		

d1	L	d2	k
3.7	100	5	0.5
	125		
	160		
3.8	100	5	0.5
	125		
	160		
3.9	100	5	0.5
	125		
	160		
4	100	5.5	0.5
	125		
	160		
	200		
	250		
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	0.5
	125		
	160		
	200		
	250		
4.6	100	6	0.5
	125		
	160		
4.7	100	6	0.5
	125		
	160		
4.8	100	6	0.5
	125		
	160		
4.9	100	6	0.5
	125		
	160		
5	100	6.5	0.5
	125		
	160		
	200		
	250		

d1	L	d2	k
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		
5.4	100	6.5	0.5
	125		
	160		
5.5	100	7	0.5
	125		
	160		
	200		
	250		
5.6	100	7	0.5
	125		
	160		
5.7	100	7	0.5
	125		
	160		
5.8	100	7	0.5
	125		
	160		
5.9	100	7	0.5
	125		
	160		
6	100	8	0.5
	125		
	160		
	200		
	250		
6.5	100	9	1
	125		
	160		
7	100	9	1
	125		
	160		
	200		
	250		
7.5	100	10	1
	125		
	160		
	200		
	250		

d1	L	d2	k
8	100	10	1
	125		
	160		
	200		
	250		
8.5	100	11	1
	125		
	160		
	200		
	250		
9	100	11	1
	125		
	160		
	200		
	250		
9.5	100	12	1
	125		
	160		
	200		
	250		
10	100	12	1
	125		
	160		
	200		
	250		
10.5	100	13	1
	125		
	160		
	200		
	250		
11	100	13	1
	125		
	160		
	200		
	250		
12	100	14	1
	125		
	160		
	200		
	250		
13	100	15	1
	125		
	160		
	200		
	250		
14	100	16	1.5
	125		
	160		
	200		
	250		
16	100	18	1.5
	125		
	160		
	200		
	250		



Order: **HBI**. d1 x L



Material: 1.2516 WS
Head Hardness: 45 ± 2 HRC
Body Hardness: 60 ± 2 HRC

Heat Resistance:
220° max.

Tensile Resistance:
1300 N / mm²

Ejector Pins

1

2

3

4

5

6

7

8

9

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12

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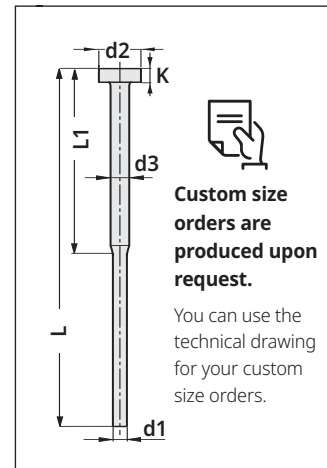
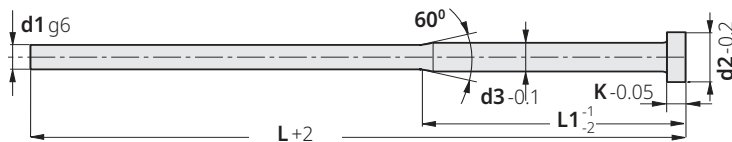
Ejector Pins



Cylinder Head Stepped Ejector Pin

DIN ISO 8694

Code: **SBKAH**



d1	L	L1	d3	d2	k
0.8	63	25	2	4	2
	80	35			
	100	50			
	125				
	150				
	160				
1	63	25	2	4	2
	80	35			
	100	50			
	125				
	150				
	160				
	200				
1.1	63	25	2	4	2
	80	35			
	100	50			
	125				
	150				
	160				
1.2	63	25	2	4	2
	80	35			
	100	50			
	125				
	150				
	160				
1.3	63	25	2	4	2
	80	35			
	100	50			
	125				
	150				
	160				

d1	L	L1	d3	d2	k
1.4	63	25	2	4	2
	80	35			
	100	50			
	125				
	150				
	160				
1.5	63	25	3	6	3
	80	35			
	100	50			
	125				
	150				
	160				
	200				
1.6	80	35	3	6	3
	100	50			
	125				
	150				
	160				
	200				
1.7	80	35	3	6	3
	100	50			
	125				
	150				
	160				
	200				
1.8	80	35	3	6	3
	100	50			
	125				
	150				
	160				
	200				

d1	L	L1	d3	d2	k
2	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

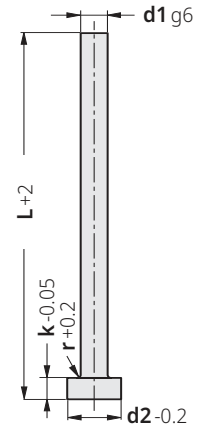


Material: 1.2516 WS
Head Hardness: 45 ± 2 HRC
Body Hardness: 60 ± 2 HRC

Heat Resistance: 220° max.
Tensile Resistance:
 1300 N / mm²

d1	L	d2	k
1	100 200	2.5	1.2
	125 250		
	160 315		
1.1	100	2.5	1.2
1.2	100	2.5	1.2
	160		
1.3	100	3	1.5
	160		
1.4	100	3	1.5
	160		
1.5	100 200	3	1.5
	125 250		
	160 315		
1.6	100	3	1.5
	160		
1.7	100	3	1.5
	160		
1.8	100	3	1.5
	160		
1.9	100	3	1.5
	160		
2	100 250	4	2
	125 315		
	160 400		
	200 500		
2.2	100	4	2
	160		
2.3	100	4	2
2.4	100	4	2
	160		
2.5	100 250	5	2
	125 315		
	160 400		
	200 500		
2.7	100	5	2
	160		
3	100 315	6	3
	125 400		
	160 500		
	200 630		
	250		
3.2	100	6	3
	160		
	200		
3.5	100 250	7	3
	125 315		
	160 400		
	200 500		

d1	L	d2	k
3.7	100	7	3
	160		
4	100 400	8	3
	125 500		
	160 630		
	200 800		
	250 1000		
4.1	100	8	3
	160		
4.2	100	8	3
	160		
4.5	100 250	8	3
	125 315		
	160 400		
	200 500		
	250 1000		
5	100 400	10	3
	125 500		
	160 630		
	200 800		
	250 1000		
5.2	100 315	10	3
	200 400		
5.5	100 250	10	3
	125 315		
	160 400		
6	100 400	12	5
	125 500		
	160 630		
	200 800		
	250 1000		
6.2	100	12	5
	160		
	250		
6.5	100 315	12	5
	125 400		
	160 500		
	200 630		
	250		
7	100 315	12	5
	125 400		
	160 500		
	200 1000		
	250		



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

Code: **SBIAH**

d1	L	d2	k
7.5	100 250	12	5
	125 315		
	160 400		
	200		
8	100 400	14	5
	125 500		
	160 630		
	200 800		
	250 1000		
8.2	100	14	5
	160		
	250		
8.5	100 315	14	5
	125 400		
	160 500		
	200 630		
9	100 315	14	5
	125 400		
	160 500		
	200 630		
10	100 400	16	5
	125 500		
	160 630		
	200 800		

d1	L	d2	k
10.2	125	16	5
	250		
10.5	100 200	16	5
	125 315		
11	100 250	16	5
	125 315		
	160 400		
12	100 400	18	7
	125 500		
	160 630		
	200 800		
	250 1000		
13	100 250	18	7
	125 315		
	160 400		
	200		
14	100 400	22	7
	125 500		
	160 630		
	200 800		
	250 1000		

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

Heat Resistance:

220° max.

Tensile Resistance:

1300 N / mm²



Order: **SBIAH. d1 x L**



Material: 1.2516 WS
Hardness: 60 ± 2 HRC

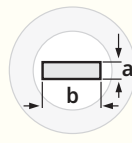


d1 ~	r
1.5 ~ 2	0.2
2.5 ~ 5.5	0.3
6 ~ 11	0.5
12 ~ 18	0.8
20 ~ 25	1

Ejector Pins

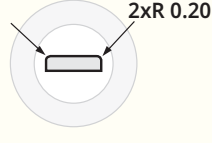
Custom size orders are produced upon request.

Code: **SPLAH**



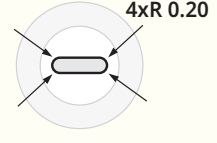
Type: **A**

Code: **SPLBH**

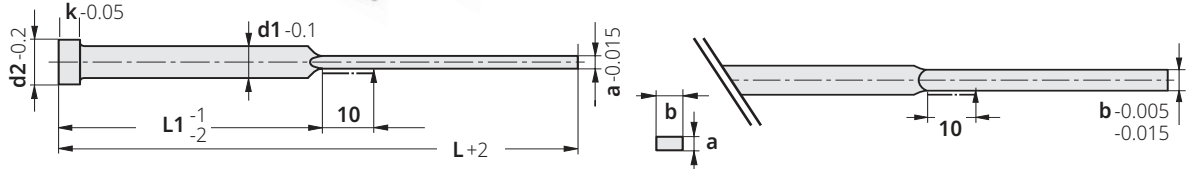


Type: **B**
with 2-corner radius

Code: **SPLCH**



Type: **C**
with 4-corner radius



Blade Ejector Pin - Hardened / ISO 8693 - DIN 1530 F

Code: **SPLAH**

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

Form: FAH

a	b	d1	d2	k	L	L1
0.5	2.8	3	6	3	80	40
					100	50
					125	60
					160	80
0.6	2.8	3	6	3	80	40
					100	50
					125	60
					160	80
0.8	2.8	3	6	3	80	40
					100	50
					125	60
					160	80
0.8	3.5	4	8	3	80	40
					100	50
					125	60
					160	80
0.8	3.8	4.2	8	3	80	40
					100	50
					125	60
					160	80
0.8	4.5	5	10	3	100	50
					125	60
					160	80
					200	100
0.8	5.5	6	12	5	100	50
					125	60
					160	80
					200	100

a	b	d1	d2	k	L	L1
1	3.8	4.2	8	3	80	40
					100	50
					125	60
					160	80
1	4.5	5	10	3	80	40
					100	50
					125	60
					160	80
1	5.5	6	12	5	80	40
					100	50
					125	60
					160	80
1	7.5	8	14	5	100	50
					125	60
					160	80
					200	100
1.2	3.5	4	8	3	80	40
					100	50
					125	60
					160	80
1.2	3.8	4.2	8	3	80	40
					100	50
					125	60
					160	80

a	b	d1	d2	k	L	L1
1.2	4.5	5	10	3	80	40
					100	50
					125	60
					160	80
1.2	5.5	6	12	5	80	40
					100	50
					125	60
					160	80
1.2	7.5	8	14	5	100	50
					125	60
					160	80
					200	100
1.5	4.5	5	10	3	80	40
					100	50
					125	60
					160	80
1.5	5.5	6	12	5	80	40
					100	50
					125	60
					160	80

a	b	d1	d2	k	L	L1
1.5	7.5	8	14	5	100	50
					125	60
					160	80
					200	100
1.5	9.5	10	16	5	100	50
					125	60
					160	80
					200	100
2	5.5	6	12	5	80	40
					100	50
					125	60
					160	80
2	7.5	8	14	5	100	50
					125	60
					160	80
					200	100
2	9.5	10	16	5	100	50
					125	60
					160	80
					200	100
2	11.5	12	18	7	100	50
					125	60
					160	80
					200	100



Order:
SPLAH. a x b x d1 x L



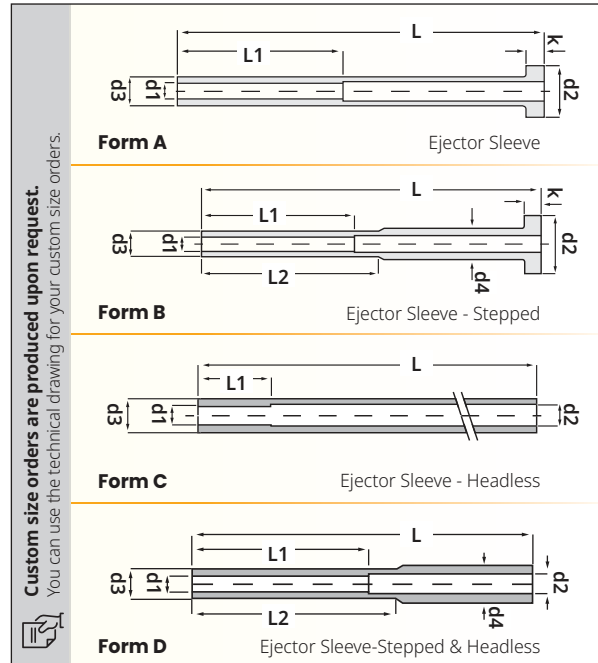
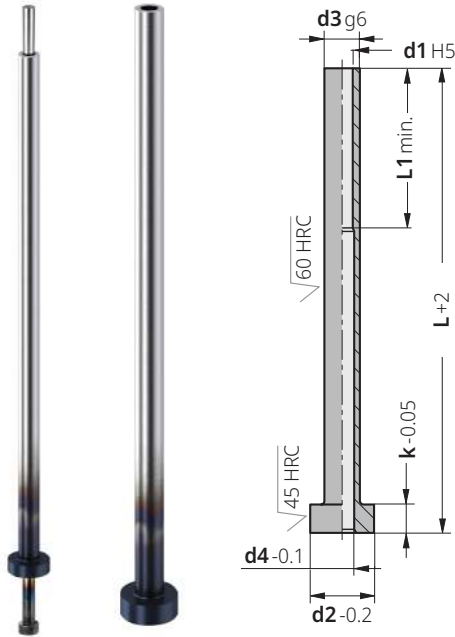
Material: 1.2516 WS (Hardened)

Head Hardness: 45 ± 2 HRC

Body Hardness: 60 ± 2 HRC

Heat Resistance: 220° max.

Tensile Resistance: 1300 N / mm²



Ejector Sleeve - Nitrided / DIN ISO 8405

Code: **SMB**

The inner hole at the rear of the Ejector Sleeves has been precision ground within the 30 - 45 mm ejector pin operating tolerance.

d3	L	d1	L1	d4	d2	k	d3	L	d1	L1	d4	d2	k	d3	L	d1	L1	d4	d2	k	d3	L	d1	L1	d4	d2	k
4	75	2	35	2.3	8	3	6	75	3.5	45	4	12	5	8	75	5	45	5.3	14	5	12	200	8	45	8.3	20	7
	100							250																			
	125							300																			
	150							350																			
	160							400																			
	175							450																			
	200							500																			
	250																										
5	75	2.5	35	3	10	3	6	75	4	45	4.3	12	5	10	75	6	45	6.3	16	5	14	200	10	50	10.3	22	7
	100							250																			
	125							300																			
	150							350																			
	160							400																			
	175							450																			
	200							500																			
	250																										
5	75	3	45	3.3	10	3	6	75	4	45	4.3	12	5	12	75	8	45	8.3	20	7	16	200	12	50	12.3	22	7
	100							250																			
	125							300																			
	150							350																			
	160							400																			
	175							450																			
	200							500																			
	250																										
300																											



Order: **SMB**. d1 x d3 x L



Material: 1.2343

Head Hardness: 45 ± 2 HRC

Body Hardness: 60 ± 2 HRC

Heat Resistance: 500 - 550° max.

Tensile Resistance: 1450 N / mm²

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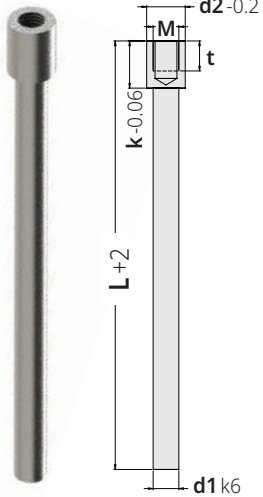
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Code: **SBD**

Core Pin - Threaded Head

DIN 1530 - A / ISO 6751

d1	L	M	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				



Material: 1.2343

Tensile Resistance: 1400 N / mm²



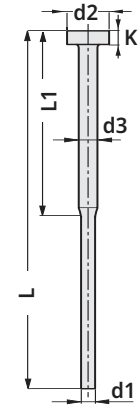
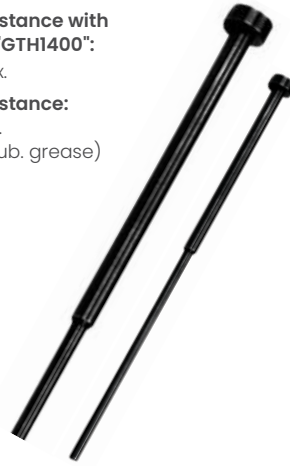
Order:
SBD. d1 x L x M



In-mould (ejector plate & core/lifter) usage. Can be exchanged without dismantling the mould. Threaded head for easy disassembly. Custom size orders are produced upon request.

Heat Resistance with
Güvenal "GTH1400":
1400° max.

Heat Resistance:
650° max.
(without lub. grease)



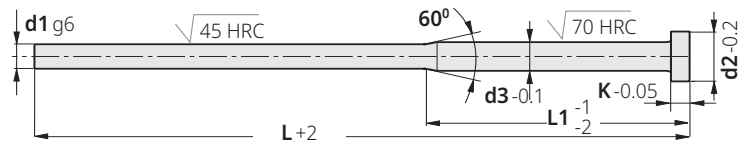
Custom size
orders are
produced upon
request.

You can use the
technical drawing
for your custom
size orders.

Stepped Ejector Pin - Nitrided and Oxidation Coated

ISO 8694 / DIN 1530 Form C

Code: **SBW**



d1	L	L1	d3	d2	k
0.8	100	50	2	4	2
	125	50			
	160	75			
0.9	100	50	2	4	2
	125	50			
	160	75			
1	100	50	2	4	2
	125	50			
	160	75			
	200	75			
1.1	100	50	2	4	2
	125	50			
	160	75			
1.2	100	50	2	4	2
	125	50			
	160	75			
1.3	100	50	2	4	2
	125	50			
	160	75			

d1	L	L1	d3	d2	k
1.4	100	50	2	4	2
	125	50			
	160	75			
1.5	100	50	3	6	3
	125	50			
	160	75			
2	100	50	3	6	3
	125	50			
	160	75			
2.5	100	50	3	6	3
	125	50			
	160	75			



Order:
SBW. d1 x d3 x L1 x L



Material: 1.2343
Plasma Nitrided +
Oxidation Coated

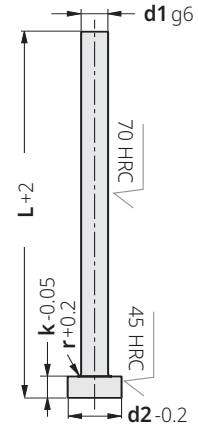
d1	L	d2	k
1.5	100 160	3	1.5
	125 200		
2	100 315	4	2
	125 400		
	160 500		
	200 630		
	250		
2.2	100	4	2
	160		
2.5	100 250	5	2
	125 315		
	160 400		
	200 500		
	250		
2.7	100	5	2
	160		
3	100 315	6	3
	125 400		
	160 500		
	200 630		
	250		
	315		
3.2	100	6	3
	160		
3.5	100 315	7	3
	125 400		
	160 500		
	200 630		
	250		
3.7	100	7	3
	160		
4	100 315	8	3
	125 400		
	160 500		
	200 630		
	250 800		
4.2	100	8	3
	200		
4.5	100 315	8	3
	125 400		
	160 500		
	200 630		
	250		
5	100 315	10	3
	125 400		
	160 500		
	200 630		
	250 800		

d1	L	d2	k
5.2	100	10	3
	200		
5.5	100 315	10	3
	125 400		
	160 500		
	200 630		
	250		
6	100 400	12	5
	125 500		
	160 630		
	200 800		
	250 1000		
6.2	100 160	12	5
	125 250		
6.5	100 250	12	5
	125 315		
	160 400		
	200 500		
	315		
7	100 315	12	5
	125 400		
	160 500		
	200 630		
	250 800		
7.5	100 315	12	5
	125 400		
	160 500		
	200 800		
	250		
8	100 400	14	5
	125 500		
	160 630		
	200 800		
	250 1000		
8.2	100	14	5
	160		
8.5	100 315	14	5
	125 400		
	160 500		
	200 630		
	250		



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

DIN 1530-1 Form: A



Cylinder Head Ejector Pin

Code: **SBMAV03**

Plasma Nitrided and Oxidation Coated / DIN 1530-1

d1	L	d2	k
9	100 315	14	5
	125 400		
	160 500		
	200 630		
	250 800		
9.5	100 250	14	5
	125 315		
	160 400		
	200		
10	100 400	16	5
	125 500		
	160 630		
	200 800		
	250 1000		
10.2	125	16	5
	250		
	500		
10.5	100 250	16	5
	125 315		
	160 400		
	200 500		
11	100 250	16	5
	125 315		
	160 400		
	200 500		
11.5	100	16	5

d1	L	d2	k
12	100 400	18	7
	125 500		
	160 630		
	200 800		
	250 1000		
13	100 250	18	7
	125 315		
	160 400		
	200 500		
14	100 400	22	7
	125 500		
	160 630		
	200 800		
	250 1000		
16	100 400	22	7
	125 500		
	160 630		
	200 800		
	250 1000		

d1	L	d2	k
18	100 315	24	7
	125 400		
	160 500		
	200 630		
	250		
20	125 400	26	8
	160 500		
	200 630		
	250 800		
	315 1000		
25	125 400	32	10
	160 500		
	200 630		
	250 800		
	315		

d1 ~	r
1.5 ~ 2	0.2
2.5 ~ 5.5	0.3
6 ~ 11	0.5
12 ~ 18	0.8
20 ~ 25	1

Heat Resistance with Güvenal "GTH1400":

1400° max.

Tensile Resistance:

1450 N / mm²

Heat Resistance:

650° max.

Head Hardness:

45 ± 5 HRC

Body Hardness:

44 HRC



Order: **SBMAV03**. d1 x L



Material: 1.2343 Plasma

Nitrided + Oxidation Coated

Oxidation Clad Body Hardness: 70 HRC

Ejector Pins

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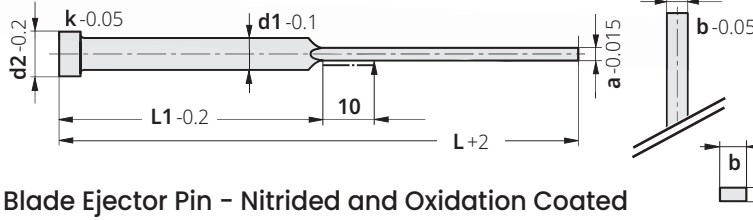
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Blade Ejector Pin - Nitrided and Oxidation Coated ISO 8693 (DIN 1530 F)

Code: **SPWA**

Form: A

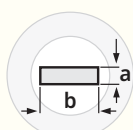
Our standard stocks are created from Type-A. Type-B & Type-C are upon request.

a	b	d1	d2	k	L	L1
0.8	3.5	4	8	3	80	40
					100	50
					125	60
1	4.5	5	10	3	80	40
					100	50
					125	60
1	5.5	6	12	5	160	80
					80	40
					100	50
1.2	3.5	4	8	3	125	60
					160	80
					80	40
1.2	4.5	5	10	3	100	50
					125	60
					160	80
1.2	5.5	6	12	5	80	40
					100	50
					125	60
1.5	4.5	5	10	3	160	80
					100	50
					125	60

a	b	d1	d2	k	L	L1
1.5	5.5	6	12	5	100	50
					125	60
					160	80
1.5	7.5	8	14	5	200	100
					125	60
					160	80
1.5	9.5	10	16	5	250	125
					315	160
					100	50
2	5.5	6	12	5	125	60
					160	80
					200	100
2	7.5	8	14	5	160	80
					200	100
					250	125
2	9.5	10	16	5	315	160
					400	200
					200	100
2	11.5	12	18	7	250	125
					315	160
					400	200

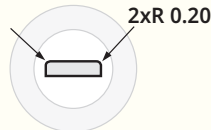
Custom size orders are produced upon request.

Code: **SPWA**



Type: **A**

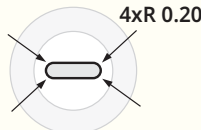
Code: **SPWB**



Type: **B**

with 2-corner radius

Code: **SPWC**



Type: **C**

with 4-corner radius

(Standard Type-A)
Order: **SPWA.** a x b x d1 x L

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



NEW

Order Code: **GTH1400**

High Temperature Ejector Pin Grease

Custom-engineered Grease



Resistant to:
1400°C



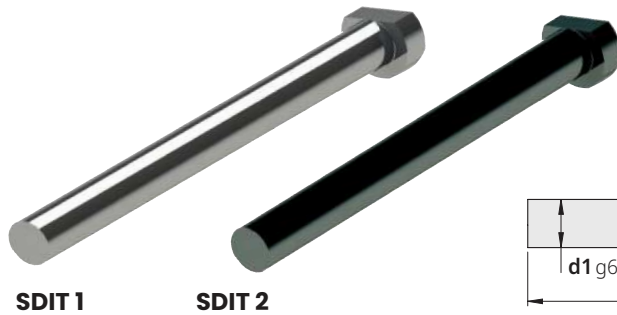
Specially Developed
Formula

High temperature lubricating greases for Ejector Pins & Core Systems.

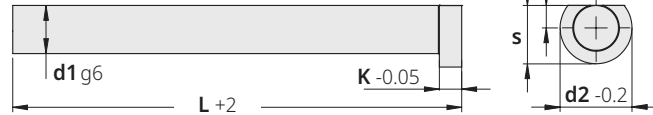
Our special greases consist of well refined mineral oils and EP additives providing lubricity as film strip between other mould parts and mould parts that do not affect from high temperature of ejector systems and core systems in working mould in high temperature such as metal injection. Thanks to solid lubricants and additives, it has comfortable operation (working without load). It has high heat insulation and provides resistance up to 1400°C. 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 GTH1400 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.



Note: Custom size orders are produced upon request.



Ejector Pin with Locking Head (Anti-Rotating)

Code: **SDIT..**

SDIT 1



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

SDIT 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				
3.5	100	7	3	1.75	5.25
	125				
	160				
	200				
	250				
4.0	100	8	3	2	6
	125				
	160				
	200				
	250				
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				

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				
7.0	100	12	5	3.5	9.5
	125				
	160				
	200				
	250				
7.5	100	12	5	3.75	9.75
	125				
	160				
	200				
	250				
8	100	14	5	4	11
	125				
	160				
	200				
	250				

d1	L	d2	K	a	s
8.5	100	14	5	4.25	11.2
	125				
	160				
	200				
	250				
9	100	14	5	4.5	11.5
	125				
	160				
	200				
	250				
10	100	16	5	5	13
	125				
	160				
	200				
	250				
11	100	16	5	5.5	13.5
	125				
	160				
	200				
	250				
12	100	18	7	6	15
	125				
	160				
	200				
	250				

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

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.



Order:
SDIT(1 or 2). d1 x L

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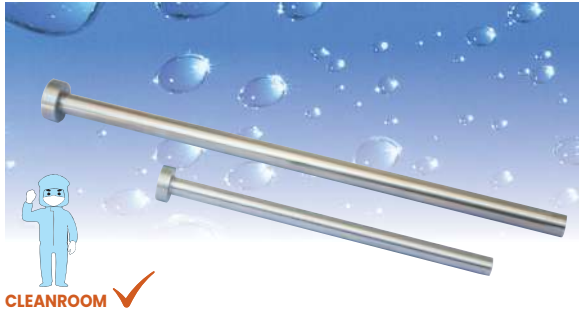
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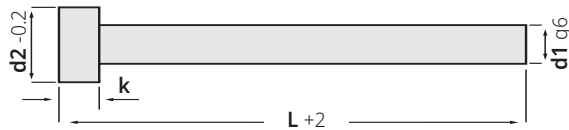


CLEANROOM

Ejector Pin - Stainless / INOX

Code: **SPI**

ISO 6751, DIN 1530 Form: AH



d1	L	d2	k	d1	L	d2	k
2	100	4	2	4.5	100	8	3
	160				160		
	200				200		
	250				250		
2.5	100	5	2	5	100	10	3
	160				160		
	200				200		
	250				250		
3	100	6	3	5.5	100	10	3
	160				160		
	200				200		
	250				250		
3.5	100	7	3	6	100	12	5
	160				160		
	200				200		
	250				250		
4	100	8	3	8	100	14	5
	160				160		
	200				200		
	250				250		



Order: **SPI**. d1 x L

Material: 1.4125 INOX

Body Hardness: 56 ± 2 HRC

Heat Resistance: 180° max.

Head Hardness: 45 ± 5 HRC

"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: Copper Alloy

Surface Roughness: Ra <0.8 Micron

Body Hardness: HRC min. 180 HB

Head Hardness: HRC min. 180 HB

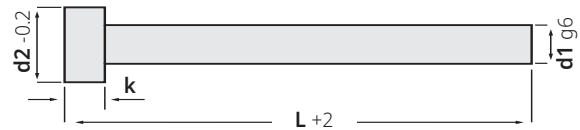
Tensile Resistance: ~650 N/mm²

Heat Conductivity: ~200 W/mK

Ejector Pin - Copper Alloy

Code: **SPPAV07**

ISO 6751, DIN 1530 Form: AH



d1	L	d2	k	d1	L	d2	k	d1	L	d2	k	
2	100	4	2	6	100	12	5	12	100	18	7	
	160				160							
2.5	100	5	2		250				250			
	160				315							
3	100	6	3	7	100	12	5	14	160	22	7	
	160				160				315			
	250				400							
3.5	100	7	3		8			100	14	5	16	160
	160			160		250						
4	100	8	3	250		250	315					
	160			160		160	250					
	250			250	315							
4.5	100	8	3	10	100	16	5	18	160	22	7	
	160				160				250			
5	100	10	3		250				250			315
	160				315				400			
	250			400	500							



Order: **SPPAV07**. d1 x L



"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.

Ejector Pins

HIGH-PERFORMANCE CUSTOM-MADE PARTS DESIGNED TO YOUR NEEDS WITH OUR EXTENSIVE MANUFACTURING CAPABILITIES

“Turkish-Made / Globally Connected Quality”

We offer customized production solutions for a wide range of industries, tailored to your specific design needs. With unlimited production options, you can rely on Güvenal for not only tooling but also similar products, providing cost-effective prices and fast delivery for all your projects.



ISO Certified:

To ensure the highest quality and meet customer requirements, we continuously improve our Quality Management System in accordance with ISO 9001:2015.

Custom-made Self-lubricating Components



Die Casting Parts



Cavity - Core Pins



Parts for Medical Industry



Cap Closure & Pet Bottle Parts



Hot Runner Parts



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Ejector Pins