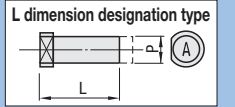


Dies Steel  
SKD61 equivalent  
+  
Nitriding

# STRAIGHT EJECTOR PINS WITH ENGRAVING

— L DIMENSION DESIGNATION TYPE —



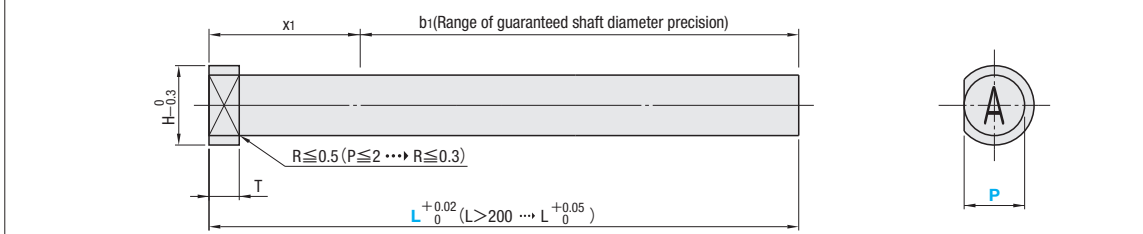
Ⓜ Non JIS material definition is listed on P.1351 - 1352

<b>RoHS</b>		<b>Part Number</b>	<b>Head thickness</b>	<b>T</b>	<b>P</b>
		EPN□□□ EPN□□MR	4mm(T4)	0 -0.02	1~13 15~20 25 -0.01 -0.01 -0.01 -0.02 -0.03 -0.04
		EPJ□□□ EPJ□□MR	6 · 8mm(JIS)	0 -0.05	

**Order** Part Number: EPN 2M 6 - 250.00, EPJ 1MR 5 - 280.00. Characters for engraving: 0~9, A~Z, /, <, +, -, ., %, @, #, &.

**Alterations** Part Number: EPJ1M 4 - 270.00. Characters for engraving: A, AKC90.

**Quotation** Days to Ship



To determine the engraving position, key flat cutting is made at the standard 0°.

Range of guaranteed shaft diameter precision (Details P.1301)  
T4 → x1 max.30  
JIS → x1 max.35

SKD61 equivalent + Nitrided  
Surface: 900HV ~ Base material: 40~45HRC  
Range of guaranteed base material hardness (Details P.1303)  
Range of guaranteed surface hardness for nitriding (Details P.1303)

1M · 1MR (1 character)	2M · 2MR (2 characters)	3M (3 characters)	4M (4 characters)	5M (5 characters)
1 ≤ P ≤ 25	1.5 ≤ P ≤ 25	2.8 ≤ P ≤ 25	3.6 ≤ P ≤ 25	4.5 ≤ P ≤ 25

Designate characters in the right reading order to appear on the finished products. Refer to P.118 for character font.

4mm head		JIS head		Part Number		0.01mm increments		Characters for engraving (Round Gothic type)
H	T	H	T	Type	Character	P	L	
3				EPN	1M	1 1.1 1.2 1.3 1.4	40.00~150.00	0 1 2 3 4 5 6 7 8 9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
4						1.5	40.00~200.00	
5						2		
6						2.1 2.2 2.3 2.4		
7						2.5		
8						2.6 2.7 2.8 2.9		
9	4	8	6			3		
10		9				3.1 3.2 3.3 3.4		
11		10				3.5		
15		11				3.6 3.7 3.8 3.9		
17		13		(4.1) (4.2) (4.3) (4.4)				
18		15		4.5				
20		17		(4.6) (4.7) (4.8) (4.9)				
21		18		5				
25		20		(5.1) (5.2) (5.3) (5.4)				
30		21		5.5				
		25		(5.6) (5.7) (5.8) (5.9)				
		30		6				
				(6.1) (6.2) (6.3) (6.4)				
				6.5				
				7				
				8				
				10				
				12				
				(13)				
				15				
				16				
				20				
				25				

The P dimension enclosed in brackets ( ) is applicable only for EPN.  
Use ¥ for indicating (slash), # for — (minus), % for { } (space), @ for · (centered dot), and & for . (period).  
1MR and 2MR are sequential numbering designation. In the case of bulk order of two or more ejector pins with the same size, the sequential numbering engraving is performed.  
In case of 1MR, "0" is next to "9" while "A" is next to "Z".  
In case of 2MR, the 1st digit is sequential, and if next to "9" or "Z", it starts from "0" or "A" while the 2nd digit is increased by one.  
In case of 1MR and 2MR, other engraving characters cannot be used for designation.  
1MR (Example) • When placing the order for 5 pieces of EPN1MR2—150—1, characters for engraving "1 2 3 4 5"  
• When placing the order for 3 pieces of EPN1MR3—150—Z, characters for engraving "Z A B"  
2MR (Example) • When placing the order for 4 pieces of EPJ2MR4—100—01, characters for engraving "01 02 03 04"  
• When placing the order for 4 pieces of EPJ2MR4—100—A8, characters for engraving "A8 A9 B0 B1"  
• When placing the order for 6 pieces of EPJ2MR6—150—1X, characters for engraving "1X 1Y 1Z 2A 2B 2C"

Alterations	Code	Spec.	1Code
	AKC	AKC=1° increments 0 < AKC < 360 No need to designate AKC0	
	AWC	AWC=1° increments 0 ≤ AWC < 360	
	ARC	ARC=1° increments 0 ≤ ARC < 360	
	ADC	ADC=1° increments 0 ≤ ADC < 360	
	KGA	KGA=1° increments 0 < KGA < 360	
	KGB	KGB=1° increments 0 < KGB < 360	
	KAC KBC	Varied width parallel flats cutting P/2 ≤ KAC < H/2 KBC=0.1mm increments only KAC < KBC < H/2 Combination with other key flat cutting not available	

Alteration details P.53

Alterations	Code	Spec.	1Code
	TC	TC=0.1mm increments T/2 ≤ TC < T, P ≥ 1.5 (Dimension L remains unchanged.) T - TC ≤ Lmax. - L	
	HC	HC=0.1mm increments P+1 ≤ HC < H, P ≥ 1.5	
	HCC	HCC=0.1mm increments P+1 ≤ HCC < H - 0.3, P ≥ 1.5	
	NHC	Numbering on the head How to order P.54	
	NHN	Automatic sequential numbering on the head How to order P.54	
	EC	Engraving depth alteration 0.2 → 0.1 [Designation method] EC0.1 0.2 → 0.3 [Designation method] EC0.3	

**P** Price **Quotation**

Relationship between Shaft Diameter (P) and Character Size (Q, W)

No. of characters	P	Q	W	No. of characters	P	Q	W
1M 1MR (1 character)	1~1.2	0.8	0.4	3M (3 characters)	2.8~3	0.8	1.8
	1.3~1.4	1.0	0.5		3.1~4.4	1.0	2.1
	1.5~1.9	1.2	0.6		4.5~5.4	1.5	3.2
	2~2.4	1.5	0.8		5.5~6.5	2.0	4.2
	2.5~3.4	2.0	1.0		7~12	2.5	5.3
	3.5~4.4	3.0	1.5		13~20	4.5	8.5
	4.5~5.4	4.0	2.0		25	7.0	13.5
	5.5~12	5.0	2.5		3.6~3.8	0.8	2.4
	13~20	9.0	4.5		3.9~5.4	1.0	2.9
	25	14.0	7.0		5.5~6.5	1.5	4.4
2M 2MR (2 characters)	1.5~1.9	0.7	1.1	4M (4 characters)	7~12	2.0	5.8
	2~2.2	0.8	1.2		13~20	3.5	8.8
	2.3~2.9	1.0	1.3		25	5.5	14.0
	3~3.9	1.5	2.0		4.5~4.9	0.8	3.0
	4~4.9	2.0	2.6		5~6.5	1.0	3.7
	5~5.9	2.5	3.3		7~12	1.5	5.6
	6~7	3.0	3.9		13~20	3.0	9.0
	8~12	4.0	5.2		25	4.8	14.2
	13~20	6.5	8.0				
	25	10.0	12.5				

