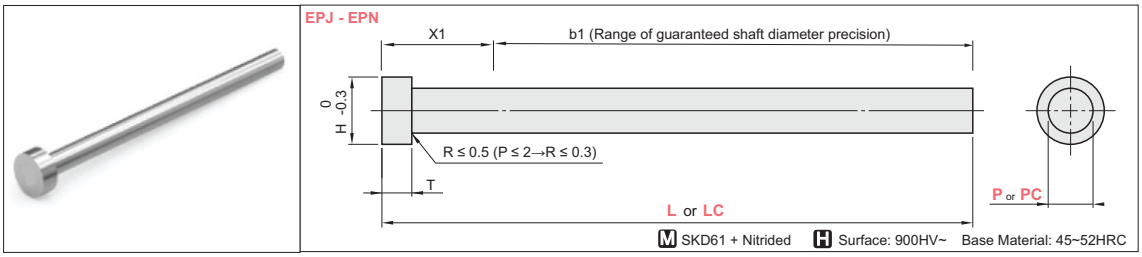


L(LC) \ P(PC)	1 ~ 13	15 ~ 20	25
L(LC)≤ 500	- 0.01 - 0.02	- 0.01 - 0.03	- 0.01 - 0.04
L(LC)> 500	- 0.01 - 0.03	- 0.01 - 0.03	- 0.01 - 0.05

T	Tolerance
4mm	0 - 0.02
6 - 8mm	0 - 0.05

LC	L
+0.02 0 LC > 200→ +0.05 0 LC > 500→ +0.5 0	+5 +0.1

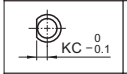
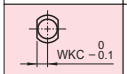
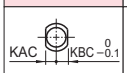
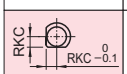
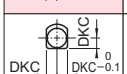
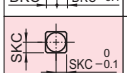
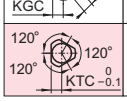
L	x_1 max.
L<100	30
100~200	40
250	110
300	160
350	210

JIS head H	JIS head T	TYPE	P	L	LC Incressment 0.01 Min ~ max
3	4	EPJ	1 1.1 1.2 1.3 1.4	100 150	40.00~150.00
			1.5	100 150 200	40.00~200.00
4			1.6 1.7 1.8 1.9	100 150 200	
			2.0	100 150 200 250 300 350 400	40.00~400.00
5			2.1 2.2 2.3 2.4	100 150 200 250 300	40.00~300.00
			2.5	100 150 200 250 300 350 400	40.00~400.00
6			2.6 2.7 2.8 2.9	100 150 200 250 300	40.00~300.00
			3.0	100 150 200 250 300 350 400 450 500	40.00~500.00
7			3.1 3.2 3.3 3.4	100 150 200 250 300 350 400	40.00~400.00
			3.5	100 150 200 250 300 350 400 450 500	40.00~500.00
8	6		3.6 3.7 3.8 3.9	100 150 200 250 300 350 400	40.00~400.00
			4.0	100 150 200 250 300 350 400 500	40.00~600.00
			4.1 4.2 4.3 4.4	200 300 400	40.00~400.00
			4.5	100 150 200 250 300 350 400 500	40.00~500.00
9			4.6 4.7 4.8 4.9	200 300 400	40.00~400.00
			5.0	100 150 200 250 300 350 400 500 600	40.00~600.00
			5.1 5.2 5.3 5.4	200 300 400	40.00~400.00
			5.5	100 150 200 250 300 350 400 500	40.00~500.00
10			5.6 5.7 5.8 5.9	200 300 400	40.00~400.00
			6.0	100 150 200 250 300 350 400 500 600 700	40.00~700.00
11			6.1 6.2 6.3 6.4	200 300 400	40.00~400.00
			6.5	100 150 200 250 300 350 400 500 600 700	40.00~700.00
			7	100 150 200 250 300 350 400 500 600 700 800 900 1000	40.00~1000.00
13	8		8	100 150 200 250 300 350 400 450 500 600 700 800 900 1000	40.00~1000.00
15			10	100 150 200 250 300 350 400 450 500 600 700 800 900 1000	40.00~1000.00
17			12	100 150 200 250 300 350 400 450 500 600 700 800 900 1000	40.00~1000.00
18			13	100 150 200 250 300 350 400 500	40.00~1000.00
20			15	100 150 200 250 300 350 400 450 500 600 700 800 900 1000	40.00~1000.00
21			16	100 150 200 250 300 350 400 500 600 700 800 900 1000	40.00~1000.00
25			20	150 200 250 300 400 500 600 700 800 900 1000	40.00~1000.00
30			25	200 300 400 500 600 700 800 900 1000	40.00~1000.00

4mm head H	T	TYPE	P	L	LC Incressment 0.01 Min ~ max
7	4	EPN	3.6 3.7 3.8 3.9	100 150 200 250 300 350 400	40.00~400.00
			4.0	100 150 200 250 300 350 400 500	40.00~500.00
8			4.1 4.2 4.3 4.4	200 300 400	40.00~400.00
			4.5	100 150 200 250 300 350 400 500	40.00~500.00
			4.6 4.7 4.8 4.9	200 300 400	40.00~400.00
			5.0	100 150 200 250 300 350 400 500 600	40.00~600.00
9			5.1 5.2 5.3 5.4	200 300 400	40.00~400.00
			5.5	100 150 200 250 300 350 400 500	40.00~500.00
			5.6 5.7 5.8 5.9	200 300 400	40.00~400.00
			6.0	100 150 200 250 300 350 400 500 600 700	40.00~700.00
10			6.1 6.2 6.3 6.4	200 300 400	40.00~400.00
			6.5	100 150 200 250 300 350 400 500 600 700	40.00~700.00
			7	100 150 200 250 300 350 400 500 600 700 800 900 1000	40.00~1000.00
11			8	100 150 200 250 300 350 400 450 500 600 700 800 900 1000	40.00~1000.00
15			10	100 150 200 250 300 350 400 450 500 600 700 800 900 1000	40.00~1000.00
17			12	100 150 200 250 300 350 400 450 500 600 700 800 900 1000	40.00~1000.00
18			13	100 150 200 250 300 350 400 500	40.00~500.00
20			15	100 150 200 250 300 350 400 450 500 600 700 800 900 1000	40.00~1000.00
21			16	100 150 200 250 300 350 400 500 600 700 800 900 1000	40.00~1000.00

Order Example

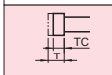
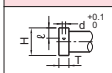
TYPE	P(PC)	L(LC)	KC · WKC...etc
EPJ -	P5 -	L200	
EPN -	P5 -	LC205.23 -	RKC2.54

Alterations	Code	Spec.
	KC	Single flat cutting P/2 ≤ KC < H/2
	WKC	Two flats cutting P/2 ≤ WKC < H/2
	KAC KBC	Varied width parallel flats cutting P/2 ≤ KAC < H/2 KBC = 0.1mm increments only KAC < KBC < H/2
	RKC	Two flats(right angled) cutting P/2 ≤ RKC < H/2
	DKC	Three flats cutting P/2 ≤ DKC < H/2
	SKC	Four flats cutting P/2 ≤ SKC < H/2
	KGC	Two flats (angled) cutting P/2 ≤ KGC < H/2 AG =1° increments 0 ≤ AG < 360
	KTC	Three flats cutting at 120 P/2 ≤ KTC < H/2

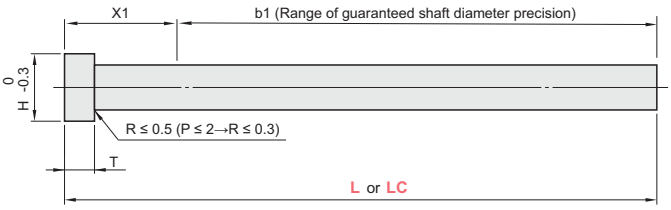
About Designation Unit for Key Flat Cutting

(1)
To align the key flat with the shaft diameter
Unit of designation
0.05mm increments possible

(2)
To designate arbitrary key flat dimensions
Unit of designation
0.1mm

Alterations	Code	Spec.
	HC	HC = 0.1mm increments P+1 ≤ HC < H, P ≥1.5
	TC	TC = 0.1mm increments T/2 ≤ HC < T, P ≥1.5 Dimension L becomes shorter by (T-TC)
	NC	Dowel hole boring Available when H ≥ 4

T	d	ℓ
4	2	3
6 8	3	5



EPJ - EPN	
M	SKD61 + Nitrided
H	Surface: 900HV~ Base Material: 45~52HRC

L(LC) \ P(PC)	1 ~ 11	12 ~ 30	25
L(LC) ≤ 500	- 0.01 - 0.02	- 0.01 - 0.03	- 0.01 - 0.04
L(LC) > 500	- 0.01 - 0.03	- 0.01 - 0.03	- 0.01 - 0.05

T	Tolerance
4mm	0 - 0.02
6 - 8mm	0 - 0.05

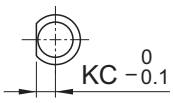
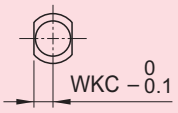
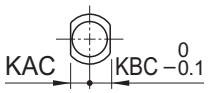
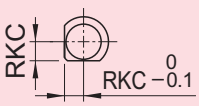
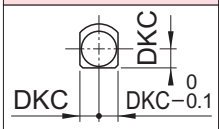
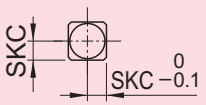
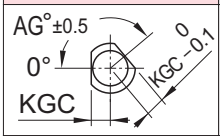
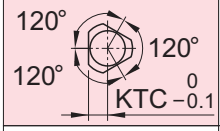
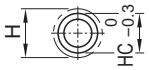
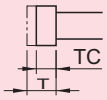
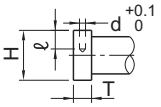
LC	L
+0.02 0	+5 +0.1
LC > 200→ +0.05 0	
LC > 500→ +0.5 0	

L	x_1 max.
L<100	30
100~200	40
250	110
300	160
350	210

4mm head		JIS head		TYPE		PC incressment 0.01 min ~ max	L incressment 1 min ~ max	LC incressment 0.01 min ~ max
H	T	H	T	4mm head	JIS head			
—	—	3	4	—	EPN	1.00 ~ 1.50	40 ~ 150	40.00 ~ 150.00
							40 ~ 200	40.00 ~ 200.00
		4				1.51 ~ 2.00	40 ~ 400	40.00 ~ 400.00
		5				2.01 ~ 2.50		
		6				2.51 ~ 3.00	40 ~ 500	40.00 ~ 500.00
		7				3.01 ~ 3.50		
7	4	8	6	EPJ		3.51 ~ 4.00		
8						4.01 ~ 4.50		
		9				4.51 ~ 5.00	40 ~ 600	40.00 ~ 600.00
9						5.01 ~ 5.50		
		10				5.51 ~ 6.00	40 ~ 700	40.00 ~ 700.00
10		11				6.01 ~ 6.50		
						6.51 ~ 7.00	40 ~ 1000	40.00 ~ 1000.00
11		13	8			7.01 ~ 8.00		
15		15				8.01 ~ 10.00		
17		17				10.01 ~ 12.00		
18		18				12.01 ~ 13.00		
19		19				13.01 ~ 14.00		
20		20				14.01 ~ 15.00		
21		21				15.01 ~ 16.00		
23		23				16.01 ~ 18.00		
—	—	25				18.01 ~ 20.00		
—	—	27				20.01 ~ 22.00		
—	—	30				22.01 ~ 25.00		

Order Example

TYPE	PC	L(LC)	KC · WKC...etc
EPJ -	PC5.15 -	L200	
EPN -	PC8.56 -	LC205.23 -	RKC2.54

Alterations	Code	Spec.
	KC	Single flat cutting P/2 ≤ KC < H/2
	WKC	Two flats cutting P/2 ≤ WKC < H/2
	KAC KBC	Varied width parallel flats cutting P/2 ≤ KAC < H/2 KBC = 0.1mm increments only KAC < KBC < H/2
	RKC	Two flats(right angled) cutting P/2 ≤ RKC < H/2
	DKC	Three flats cutting P/2 ≤ DKC < H/2
	SKC	Four flats cutting P/2 ≤ SKC < H/2
	KGC	Two flats (angled) cutting P/2 ≤ KGC < H/2 AG =1° increments 0 ≤ AG < 360
	KTC	Three flats cutting at 120 P/2 ≤ KTC < H/2
	HC	HC = 0.1mm increments P+1 ≤ HC < H, P ≥1.5
	TC	TC = 0.1mm increments T/2 ≤ HC < T, P ≥1.5 Dimension L becomes shorter by (T-TC)
	NC	Dowel hole boring Available when H ≥ 4

T	d	ℓ
4	2	3
6	3	5
8		

About Designation Unit for Key Flat Cutting

(1)
To align the key flat with the shaft diameter
Unit of designation
0.05mm increments possible

(2)
To designate arbitrary key flat dimensions
Unit of designation
0.1mm