

# STRAIGHT EJECTOR PINS WITH GAS VENT

— L DIMENSION DESIGNATION / L · P DIMENSION DESIGNATION WITH CUTTING FACETS TYPE —



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

RoHS

Limit of  $E \pm 0.01$  is within 10mm from the tip.

Range of guaranteed shaft diameter precision (Details P.1301)  
 • L Dimension Designation Type T4 → x1 max.30  
 • L · P Dimension Designation Type JIS → x1 max.35

Part Number	Head thickness	T	P
GW-EPH-L GW-EPHB	4mm(T4)	0 -0.005	
GW-EPHE-L GW-EPHBE		-0.01 -0.02	
GW-EPHJ-L GW-EPHJB	6 · 8mm(JIS)	0 -0.005	
GW-EPHJE-L GW-EPHJBE		-0.01 -0.02	

Head thickness	L	x1 max.
T4	40.00~200.00	30
JIS	40.00~200.00	35
T4	200.01~250.00	110
JIS	250.01~300.00	160
JIS	300.01~350.00	210

SKH51 equivalent  
 58~60HRC  
 Range of guaranteed base material hardness (Details P.1303)  
 (The guarantee range of shaft diameter precision is the value of shaft diameter except gas vent.)

### L Dimension Designation Type

4mm head		JIS head		Part Number			0.01mm increments			SV
H	T	H	T	Type	P	L	E			
3	4	8	6	Single flat cutting GW-EPH-L GW-EPHE-L	0.6	40.00~150.00	Single flat cutting 0.02~0.05	L	SV	
					0.7	40.00~200.00				
					0.8					
					0.9					
					1					
					1.2					
					1.5					(40.00)60.00~250.00
					2					(40.00)60.00~300.00
					2.5					
					3					
					3.5					
					4					(40.00)60.00~350.00
4.5										
5										
5.5										
6										
6.5										
7										
8										
8										
10										
11										
15										
17										

Dimension L figures in parenthesis represents for single flat cutting. L dimension is up to 300 for head thickness JIS of P4.5.

### L · P Dimension Designation Type

4mm head		JIS head		Part Number			0.01mm increments			SV
H	T	H	T	Type	No.	L	P	E		
3	4	8	6	Single flat cutting GW-EPHB GW-EPHBE	0.7	40.00~100.00	0.60~0.69	Single flat cutting 0.02~0.05	L	SV
					0.8	40.00~150.00	0.70~0.79			
					0.9	40.00~200.00	0.80~0.89			
					1	40.00~200.00	0.90~0.99			
					1.5	(40.00)60.00~250.00	1.20~1.49			
					2	(40.00)60.00~350.00	1.50~1.99			
					2.5		2.00~2.49			
					3		2.50~2.99			
					3.5		3.00~3.49			
					4		3.50~3.99			
					4.5		4.00~4.49			
					5		4.50~4.99			
5.5	5.00~5.49									
6	5.50~5.99									
6.5	6.00~6.49									
7	6.50~6.99									
8	7.00~7.99									
8	8.00~9.99									
10	10.00~11.99									
11										
15										
17										

Dimension L figures in parenthesis represents for single flat cutting. L dimension is up to 300 for head thickness JIS of No.4.5.

Order **Part Number** — **L** — **P** — **E**

GW-EPH-L5 — 210.00 — E0.03  
 GWS-EPHB6 — 230.00 — P5.50 — E0.03

Days to Ship **Quotation**

Alterations **Part Number** — **L** — **P** — **E** — (KC · WKC...etc.)  
 GW-EPHB3 — 148.36 — P2.96 — E0.03 — KC1.48

**Quotation**

Alterations	Code	Spec.	1Code
	VKC	Precision single flat cutting $P/2 \leq VKC < H/2$	<b>Quotation</b> About Designation Unit for Key Flat Cutting (1) To align the key flat with the shaft diameter [Unit of designation] L Dimension Designation Type 0.05mm increments possible L · P Dimension Designation Type 0.005mm increments possible (2) To designate arbitrary key flat dimensions [Unit of designation] 0.1 mm Flat cutting position is set at 90° of cutting facet in counterclockwise direction.
	VWC	Precision two flats cutting $P/2 \leq VWC < H/2$	
	KC	Single flat cutting $P/2 \leq KC < H/2$	
	WKC	Two flats cutting $P/2 \leq WKC < H/2$	
	KAC KBC	Varied width parallel flats cutting $P/2 \leq KAC < H/2$ KBC=0.1mm increments only $KAC < KBC < H/2$	
	RKC	Two flats (right angled) cutting $P/2 \leq RKC < H/2$	
	DKC	Three flats cutting $P/2 \leq DKC < H/2$	
	SKC	Four flats cutting $P/2 \leq SKC < H/2$	
	KGC	Two flats (angled) cutting $P/2 \leq KGC < H/2$ AG=1° increments 0 < AG < 360	
	KTC	Three flats cutting at 120° $P/2 \leq KTC < H/2$	

**P** Price **Quotation**

Alteration details P.53

Alterations	Code	Spec.	1Code
	HC	HC=0.1mm increments $P+1 \leq HC < H, P \geq 1.5$	<b>Quotation</b>
	HCC	HCC=0.1mm increments $P+1 \leq HCC < H-0.3, P \geq 1.5$	
	TC	TC=0.1mm increments $T/2 \leq TC < T, P \geq 1.5$ (Dimension L remains unchanged) $T-TC \leq L_{max}-L$	
	NHC	Numbering on the head How to order P.54 Combination with SKC not available.	
	NHN	Automatic sequential numbering on the head How to order P.54 Combination with SKC not available.	

**ex** Example **Characteristics**  
 Let gas out from the inside of the cavity via the clearance around the ejector pin.

Straight Ejector Pins  
High Speed Steel SKH51 equivalent