

High Speed Steel
SKH51 equivalent

Precision
P · W_{-0.005}
L dimension designation

PRECISION RECTANGULAR EJECTOR PINS

— L DIMENSION DESIGNATION TYPE —

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

Part Number | **Head Thickness** | **P · W**

ERVL	4mm(T4)	0 -0.005
※P-ERVL(Angular tip corner)		
ERVJL	6 · 8mm(JIS)	

Ⓜ SKH51 equivalent
Ⓜ 58~60HRC
Range of guaranteed base material hardness (Details P.1303)

Ⓜ Range of guaranteed shaft diameter precision (D) (Details P.1301)
Ⓜ Step R (Details P.1302)

Ⓜ P ≥ W
Ⓜ K = √(P² + W²)

※ For P-ERVL, the deburring of tip is not carried out. (For details, refer to the right page.)

Alterations

Part Number — L — P — W — N — (AKC · AWC...etc.)
ERVL 4 — 105.03 — P3.0 — W2.0 — N50 — AWC 0

Quotation

Alterations	Code	Spec.	1Code
	VAK (precision)	VAK=45° increments AKC=1° increments 0 ≤ VAK or AKC < 360 Ⓜ (VAK) KSA, WSA not available Ⓜ (AKC) When combined with KSA/WSA, 90° increments only.	
	VAW	VAW=45° increments 0 ≤ VAW < 360 Ⓜ Combination with KSA/WSA not available.	
	AWC	AWC=1° increments 0 ≤ AWC < 360 Ⓜ When combined with KSA/WSA, 90° increments only.	
	ARC	ARC=1° increments 0 ≤ ARC < 360 Ⓜ When combined with KSA/WSA, 90° increments only.	
	ADC	ADC=1° increments 0 ≤ ADC < 360 Ⓜ When combined with KSA/WSA, 90° increments only.	Quotation
	KGA	KGA=1° increments 0 < KGA < 360	
	KGD	KGD=1° increments 0 < KGD < 360	
	HC HCC (precision)	HC, HCC=0.1mm increments Ⓜ (HC) D+1 ≤ HC < H, D ≥ 1.5 Ⓜ (HCC) D+1 ≤ HCC < H-0.3, D ≥ 1.5	
	KSA	KSA=0.1mm increments Ⓜ W/2+0.1 ≤ KSA ≤ D/2-0.1 Ⓜ D ≥ 1.5	
	WSA	WSA=0.1mm increments Ⓜ W/2+0.1 ≤ WSA ≤ D/2-0.1 Ⓜ D ≥ 1.5	

Alteration details P.195

Alterations	Code	Spec.	1Code
	TC	TC=0.1mm increments T/2 ≤ TC < T Ⓜ Dimensions N becomes shorter by (T-TC). (Dimension L remains unchanged.) Ⓜ T-TC ≤ Lmax.-L	
	NC	Dowel hole boring NC=90° increments Ⓜ Available when H ≥ 4 Ⓜ Combination with other than NHC · NHN not available. How to order and detailed specifications P.195	
	NCW	Dowel hole boring+Spring pin driving NCW=90° increments Ⓜ Available when H ≥ 4 Ⓜ Combination with other than NHC · NHN not available. How to order and detailed specifications P.195	
	NHC	Numbering on the head How to order P.196	
	NHN	Automatic sequential numbering on the head How to order P.196	Quotation
	TMC	Lapping on the tip face Ⓜ Available when P ≥ 0.6	
	CSW	C chamfering processing at 2 points on top (except tip) for relief is performed. Designation method CSW1-E25	CSW, CSF: Range of designation W CSW, CSF 1.0 ≤ W < 1.5 0.3 W ≥ 1.5 0.5 1 1.5
	CSF	C chamfering processing at 4 points (except tip) for relief is performed. Designation method CSF0.5-E30	Ⓜ P ≥ 1.5 Ⓜ CSW, CSF < W/2 E=1mm increments Ⓜ 5 ≤ E ≤ (L-N)-20

4mm head JIS head	Part Number		L		P	W				N			
	H	T	4mm head	JIS head		D	0.01mm increments						
2						1	50.00~100.00	0.3 0.4 0.5 0.6	0.3 0.4 0.5 0.6	40 50 60			
3						1.5	50.00~100.00	0.6 0.7 0.8 1.0(1.2)	0.3 0.4 0.5 0.6	(0.8)			
							100.01~150.00	40 50 60					
4						2	50.00~100.00	1.0 1.2 1.5 1.6(1.8)	0.3 0.4 0.5 0.6	0.7 (0.8) (1.0)			
							100.01~150.00	40 50 60					
5						2.5	50.00~100.00	1.5 1.6(2.0)	0.4 0.5 0.6 0.7 0.8 1.0 1.2 (1.5)				
							100.01~150.00	40 50 60					
6						3	50.00~100.00	2.0(2.5)	0.4 0.5 0.6 0.7 0.8 1.0 1.2 (1.5)				
							100.01~150.00	40 50 60					
7						3.5	50.00~100.00	2.5	0.4 0.5 0.6 0.7 0.8 1.0 1.2 1.5 2.0				
							100.01~150.00	40 50 60					
8						4	50.00~100.00	3.0	0.4 0.5 0.6 0.7 0.8 1.0 1.2 1.5				
							100.01~150.00	40 50 60					
9						4.5	50.00~100.00	3.5	0.4 0.5 0.6 0.7 0.8 1.0 1.2				
							100.01~150.00	40 50 60					
10						5	50.00~100.00	4.0	0.6 0.8 1.0 1.2 1.5				
							100.01~150.00	40 50 60					
11						5.5	50.00~100.00	4.5	0.8 1.0 2.0				
							100.01~150.00	40 50 60					
12						6	50.00~100.00	5.0	0.5 0.6 1.0				
							100.01~150.00	40 50 60					
13						6.5	50.00~100.00	5.5	0.8 1.0 1.5				
							100.01~150.00	40 50 60					
14						7	50.00~100.00	6.0	0.8 1.0 1.2				
							100.01~150.00	40 50 60					
15						7.5	50.00~100.00	6.5	0.8 1.0 1.2				
							100.01~150.00	40 50 60					
16						8	50.00~100.00	7.0	0.8 1.0 1.2				
							100.01~150.00	40 50 60					
17						8.0	50.00~100.00	7.5	0.8 1.0 1.2				
							100.01~150.00	40 50 60					
18						8.5	50.00~100.00	8.0	0.8 1.0 1.2				
							100.01~150.00	40 50 60					
19						9.0	50.00~100.00	8.5	0.8 1.0 1.2				
							100.01~150.00	40 50 60					
20						9.5	50.00~100.00	9.0	0.8 1.0 1.2				
							100.01~150.00	40 50 60					
21						10.0	50.00~100.00	9.5	0.8 1.0 1.2				
							100.01~150.00	40 50 60					
22						10.5	50.00~100.00	10.0	0.8 1.0 1.2				
							100.01~150.00	40 50 60					

Ⓜ Selections in which both the P and W dimensions are enclosed in brackets () cannot be made. Ⓜ (L-N) ≥ 10

Order Part Number — L — P — W — N
ERVL 4 — 105.03 — P3.0 — W2.0 — N50

Days to Ship Quotation

Price Quotation

Precision Standard	
Squareness of the tip corner	ERVL P-ERVL ERVJL Pmax. Pmin. W plane as the base (Pmax.-Pmin.) ≤ 0.01
Corner R value of the tip corner	ERVL ERVJL Rmax. Rmax. ≤ 0.03 (Trimming R) Ⓜ The tip corners have been slightly trimmed to measure the P · W dimensions. (Details P.1313)
	P-ERVL 4-R ≤ 0.03 Approximately within 5mm from the tip is without deburring process. 5mm onward, deburring R is within ≤ 0.03.