

High Speed Steel
SKH51 equivalent

R-chamfered Precision
P · W_{-0.005}
L dimension designation

R-CHAMFERED PRECISION RECTANGULAR EJECTOR PINS

— L DIMENSION DESIGNATION TYPE —

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

Part Number
2 places on the upper side are rounded. **ERVLWR**
4 places are rounded. **ERVLFR**
Head Thickness 4mm(T4)
P · W 0_{-0.005}

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

ERVLWR (2 places on top are rounded.)
ERVLFR (4 places are rounded.)

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

Alterations **Part Number** - L - P - W - R - N - (AKC · AWC...etc.) **Quotation**
ERVLFR 3 - 200.00 - P2.0 - W0.8 - R0.1 - N100 - AKC0

Alterations	Code	Spec.	1Code
	AKC	AKC=1° increments 0 ≤ AKC < 360 When combined with KSA/WSA, 90° increments only.	Quotation
	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.	
	KGA	KGA=1° increments 0 < KGA < 360	
	KGD	KGD=1° increments 0 < KGD < 360	
	HCC (precision)	HC · HCC=0.1mm increments (HC) D + 1 ≤ HC < H (HCC) D + 1 ≤ HCC < H - 0.3	
	KSA	KSA=0.1mm increments /2 + 0.1 ≤ KSA ≤ D/2 - 0.1	
	WSA	WSA=0.1mm increments W/2 + 0.1 ≤ WSA ≤ D/2 - 0.1	
	TC	TC=0.1mm increments 2.0 ≤ TC < 4 Dimensions N become shorter by (4-TC) (Dimension L remains unchanged.) 4 - 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	

Alteration details P.195

Alterations	Code	Spec.	1Code
	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	Quotation
	NHC	Numbering on the head How to order P.196	
	NHN	Automatic sequential numbering on the head How to order P.196	
	TMC	Lapping on the tip face	
	CSW	C-chamfering processing at 2 corners of the blade (except tip) for relief. 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 P ≥ 1.5 CSW, CSF < W/2	
	CSF	C-chamfering processing at 4 corners of the blade (except tip) for relief. Designation method CSF0.5—E30 E=1mm increments 5 ≤ E ≤ (L-N)-20 R process range P.196 RC processing is prioritized when combining with RC.	
	RC	Designate the length of R processed part. 5 ≤ RC ≤ (L-N)-30 and RC ≤ 40 RC=1mm increments Designation method RC25 Adds RC recess processing at all places R processed.	

H	T	Part Number	L	P	W	R	N			
		Type	D	0.01mm increments						
3		ERVLWR	1.5	60.00~100.00 100.01~150.00	0.6 0.7 0.8 1.0 1.2	0.3 0.4 0.5 0.6	40 50 60 50 60 70 75 80 90			
			4	2	60.00~100.00 100.01~150.00	1.0 1.2 1.5 1.6 1.8	0.3 0.4 0.5 0.6 0.7 0.8 1.0	40 50 60 50 60 70 80 90 100		
5		ERVLWR	2.5	60.00~100.00 100.01~150.00 150.01~200.00	1.5 1.6 2.0	0.4 0.5 0.6 0.7 0.8 1.0 1.2 0.4 0.5 0.6 0.7 0.8 1.0	40 50 60 50 60 70 80 90 100 50 60 70 80 90 100			
			6	3	60.00~100.00 100.01~150.00 150.01~200.00	2.0 2.5	0.4 0.5 0.6 0.7 0.8 1.0 1.2 0.4 0.5 0.6 0.7 0.8 1.0	40 50 60 50 60 70 80 90 100 60 70 80 90 100		
7	4	ERVLWR	3.5	60.00~100.00 100.01~150.00 150.01~200.00	2.5 3.0 2.5	0.4 0.5 0.6 0.7 0.8 1.0 1.2 1.5 2.0 0.4 0.5 0.6 0.7 0.8 1.0 1.2 1.5	40 50 60 50 60 70 80 90 100 60 70 80 90 100			
			4	4	60.00~100.00 100.01~150.00 150.01~200.00	3.0 3.5 3.5	0.4 0.5 0.6 0.7 0.8 1.0 1.2 2.0 0.4 0.5 0.6 0.7 0.8 1.0 1.2 2.0 0.4 0.5 0.6 0.7 0.8 1.0 1.2	40 50 60 50 60 70 80 90 100 60 70 80 90 100		
			4.5	4.5	100.00~150.00 150.01~200.00	4.0	0.6 0.8 1.0 1.2 1.5	40 50 60 70 80 90 60 70 80 90 100		
			5	5	100.00~150.00 150.01~200.00	4.0	0.8 1.0 2.0	50 60 70 80 90 60 70 80 90 100		
			5.5	5.5	100.00~150.00 150.01~200.00	5.0	0.5 0.6 1.0	50 60 70 80 90 70 80 90 100		
		6	6	100.00~150.00 150.01~200.00	5.0	0.8 1.0 1.5	50 60 70 80 90 75 80 90 100			
		8		ERVLFR	4.5	100.00~150.00 150.01~200.00	4.0	0.6 0.8 1.0 1.2 1.5	40 50 60 70 80 90 60 70 80 90 100	
					5	5	100.00~150.00 150.01~200.00	4.0	0.8 1.0 2.0	50 60 70 80 90 60 70 80 90 100
					5.5	5.5	100.00~150.00 150.01~200.00	5.0	0.5 0.6 1.0	50 60 70 80 90 70 80 90 100
					6	6	100.00~150.00 150.01~200.00	5.0	0.8 1.0 1.5	50 60 70 80 90 75 80 90 100
6	6				100.00~150.00 150.01~200.00	5.0	0.8 1.0 1.5	50 60 70 80 90 75 80 90 100		

Ⓜ Select R dimension from the range of $R \leq \frac{W}{2} - 0.05$. Ⓜ L-N ≥ 20

Order **Part Number** - L - P - W - R - N
ERVLFR 3 - 200.00 - P2.0 - W0.8 - R0.1 - N100

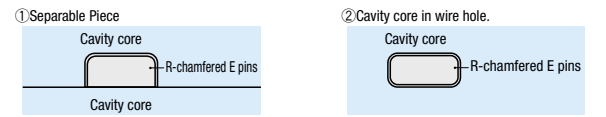
Days to Ship **Quotation**

Price **Quotation**

Example Please select the chamfering R size to suit for the corner R on the cavity core generated by WEDM.

Precision Standard

Squareness of the tip corner	 Pmax. Pmin. W plane as the base (Pmax. - Pmin.) ≤ 0.01
Corner R value of the tip corner	 Rmax. Rmax. ≤ 0.03 (Trimming R) Corner R value outside R processing range The tip corners have been slightly trimmed to measure the P · W dimensions. (Details P.1313)



Rectangular Ejector Pins
High Speed Steel SKH51 equivalent
R-chamfered Precision P · W_{-0.005} L dimension designation