


High Speed Steel  
SKH51 equivalent

Shape processing Precision  
P · W<sub>0-0.005</sub>  
Free designation

# PRECISION R-CHAMFERED RECTANGULAR EJECTOR PINS WITH TIP PROCESSED

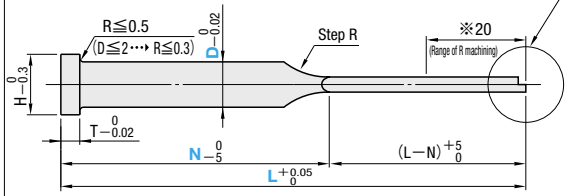
Non JIS material definition is listed on P.1351 - 1352



**RoHS**

Part Number	R position	Head Thickness	P · W	Unit of designation
ERVWR□X ERVWR□Y	2 places on the upper side are rounded.	4mm(T4)	0	G±10 <sup>0</sup> 1 <sup>0</sup> increments
ERVFR□X ERVFR□Y	4 places are rounded.	4mm(T4)	0	R±0.05 0.1mm increments
ERVJWR□X ERVJWR□Y	2 places on the upper side are rounded.	4 · 6 ·	-0.005	A±0.02 0.01mm increments
ERVJFR□X ERVJFR□Y	4 places are rounded.	8mm(JIS)	-0.005	V±0.02 0.01mm increments
				C±0.02 0.01mm increments

Select a tip shape from **P.235 · 236**



(2 places on the upper side are rounded.)  
 ERVWR□X ERVWR□Y ERVFR□X ERVFR□Y  
 ERVJWR□X ERVJWR□Y ERVJFR□X ERVJFR□Y

(4 places are rounded.)  
 ERVFR□X ERVFR□Y ERVJFR□X ERVJFR□Y

Range of guaranteed shaft diameter precision (D) (Details **P.1301**)  
 Range of guaranteed base material hardness (Details **P.1303**)  
 SKH51 equivalent  
 58~60HRC

4mm head		JIS head		Part Number			0.01mm increments			R	Kmax.	N 1mm increments	Nmin.
H	T	H	T	Type	Tip shape	D	L	P	W				
4	4	4	4	ERVWR (2 places on the upper side are rounded.)	ERVJWR (2 places on the upper side are rounded.)	2	50.00~250.00	0.80~1.80	0.60~	0.1	1.9	N ≥ 33 (L > 200 → N ≥ 50)	
5	5	5	2.5			0.80~2.30		2.4					
6	6	6	3			1.00~2.80		2.9					
7	7	7	3.5			1.00~3.30		3.4					
8	8	8	4			1.00~3.80		3.9					
9	9	9	4.5			1.20~4.30		4.4					
10	10	10	5			1.50~4.80		4.9					
11	11	11	5.5			1.80~5.30		5.4					
13	13	13	6			2.00~5.80		5.9					
15	15	15	6.5			2.00~6.30		6.4					
			7	2.30~6.80	6.9								
			8	2.30~7.80	7.9								
			10	3.00~9.80	9.9								

Designate P · W dimensions within the Kmax.  $K = \sqrt{P^2 + W^2}$  (Dimension before R processing)  $P \geq W$  Select R dimension from the range of  $R \leq \frac{W}{2} - 0.05$ .

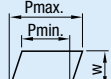
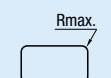
Order **Part Number** L - P - W - R - N - V · In the order of A · C · Q · G

Type Tip shape D

ERVWR 1X 4 - 150.00 - P3.00 - W1.00 - R0.1 - N50 - G15

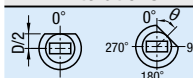
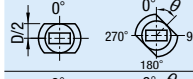
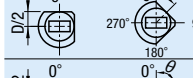



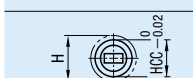
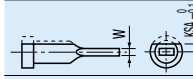
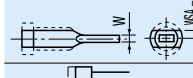
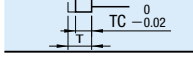

Days to Ship **Quotation**

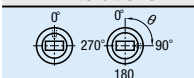
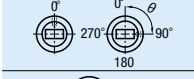

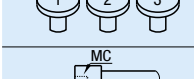

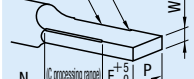
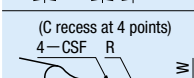
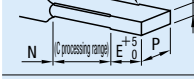
Price **Quotation**

Precision Standard	
Squareness of the tip corner	 W plane as the base (Pmax. - Pmin.) ≤ 0.01
Corner R value of the tip corner	 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 <b>P.1313</b> )

Alterations **Part Number** L - P - W - R - N - V · In the order of A · C · Q · G - (AKC · AWC · NHC...etc.)

ERVWR1X4 - 150.00 - P3.00 - W1.00 - R0.1 - N50 - G15 - NHC-3

Alterations	Code	Spec.	1Code
	AKC	AKC=1° increments 0 ≤ AKC < 360 When combined with KSA/WSA, 90° increments only.	
	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	
	HC	HC=0.1mm increments D+1 ≤ HC < H	<b>Quotation</b>
	HCC	HCC=0.1mm increments D+1 ≤ HCC < H-0.3	
	KSA	KSA=0.1mm increments W/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 T/2 ≤ TC < T (Dimension L and N remain unchanged.)	

Alterations	Code	Spec.	1Code
	NC	Dowel hole boring NC=90° increments Combination with other than NHC · NHN not available. How to order and detailed specifications <b>P.195</b>	
	NCW	Dowel hole boring + Spring pin driving NCW=90° increments Combination with other than NHC · NHN not available. How to order and detailed specifications <b>P.195</b>	
	NHC	Numbering on the head How to order <b>P.196</b>	
	NHN	Automatic sequential numbering on the head How to order <b>P.196</b>	
	MC	Tapping D8 → M4 D10 → M5 ERVJWR · ERVJFR Available when D ≥ 8 Only available combination is with CSW · CSF	
	CSW	C chamfering processing at 2 points on top (except tip) for relief is performed. [Designation method] CSW1-E25	<b>Quotation</b>
	CSF	C chamfering processing at 4 points (except tip) for relief is performed. [Designation method] CSF0.5-E30	
	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	

Rectangular Ejector Pins  
High Speed Steel SKH51 equivalent  
Shape processing-Precision P · W<sub>0-0.005</sub> Free designation