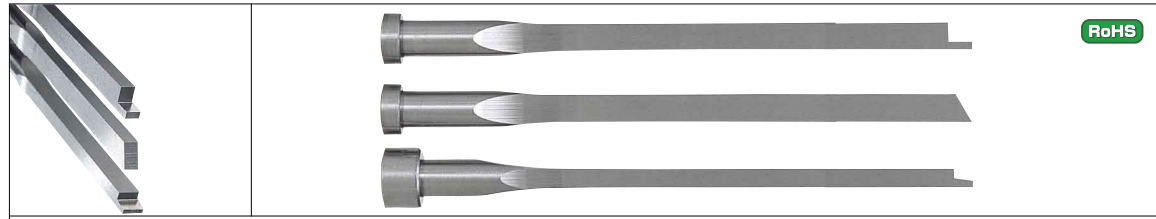


High Speed Steel
SKH51 equivalent

Shape processing
P · W_{-0.01}
Free designation

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
ERWR□X ERWR□Y	2 places on the upper side are rounded.	4mm(T4)	0	G±10° 1° increments R±0.05 0.1mm increments A±0.02 0.01mm increments V±0.02 0.01mm increments C±0.02 0.01mm increments
ERFR□X ERFR□Y	4 places are rounded.	4 · 6 ·	-0.01	
ERJWR□X ERJWR□Y	2 places on the upper side are rounded.	4 · 6 ·	-0.01	
ERJFR□X ERJFR□Y	4 places are rounded.	8mm(JIS)	-0.01	

Select a tip shape from P.235 · 236

Range of guaranteed shaft diameter precision (D) (Details P.1301) SKH51 equivalent
Step R (Details P.1302) 58~60HRC
Range of guaranteed base material hardness (Details P.1303)

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	ERWR (2 places on the upper side are rounded.)	ERJWR (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 ERWR 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	P_{max} P_{min} W plane as the base ($P_{max} - P_{min}$) ≤ 0.02
Corner R value of the tip corner	R_{max} $R_{max} \leq 0.03$ (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)

Alterations **Part Number** L - P - W - R - N - V · In the order of A · C · Q · G - (AKC · AWC · NHC...etc.) - NHC-3

ERWR1X4 - 150.00 - P3.00 - W1.00 - R0.1 - N50 - G15

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	
	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 /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 P.195	
	NCW	Dowel hole boring+ Spring pin driving NCW=90° increments 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	
	MC	Tapping D8 → M4 D10 → M5 ERJWR ERJFR 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	
	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 P · W_{-0.01} Free designation