

High Speed Steel
SKH51 equivalent

R-chamfered
P · W⁰_{-0.01}
L dimension designation

R-CHAMFERED 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. 4 places are rounded.

Head Thickness 4mm(T4)

P · W 0 / -0.01

ERLWR (2 places on the upper side are rounded.)
ERLFR (4 places are rounded.)

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

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

ERLFR 3 - 200.00 - P2.0 - W0.8 - R0.1 - N100 - AKC 0

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 HCC (precision)	HC · HCC=0.1mm increments (HC) D+1 ≤ HC < H (HCC) 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 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	
	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 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 1.5 1.5 P ≥ 1.5 CSW, CSF < W/2 E=1mm increments 5 ≤ E ≤ (L-10) - 20 R process range P.196	
	CSF	C chamfering processing at 4 points (except tip) for relief is performed. Designation method CSF0.5-E30	

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

① Separable Piece
② Cavity core in wire hole.

H	T	Part Number Type	L		P	W	R	N
			D	0.01mm increments				
3		ERLWR	1.5	60.00~100.00 100.01~150.00	0.8 1.0 1.2	0.3 0.4 0.5 0.6	0.1	40 50 60 50 60 70 80 90
			4	2	60.00~100.00 100.01~150.00 150.01~200.00	1.0 1.2 1.5		0.4 0.5 0.6 0.7 0.8 1.0
5		ERLWR	2.5	60.00~100.00 100.01~150.00 150.01~200.00	1.5 2.0	0.4 0.5 0.6 0.7 0.8 1.0 1.2	0.1	40 50 60 50 60 70 80 90 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
7		ERLWR	3.5	60.00~100.00 100.01~150.00 150.01~200.00 200.01~250.00	2.5 3.0	0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.2 1.5	0.15	40 50 60 50 60 70 80 90 60 70 80 90 100 80 100
			4	4	60.00~100.00 100.01~150.00 150.01~200.00 200.01~250.00	3.0 3.5		0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.2 1.5
8	4	ERLFR	4.5	60.00~100.00 100.01~150.00 150.01~200.00 200.01~250.00	3.5 4.0	0.6 0.7 0.8 0.9 1.0 1.2 1.5 1.8	0.2	40 50 60 70 50 60 70 80 90 60 70 80 90 100 90 100 120
			5	5	60.00~100.00 100.01~150.00 150.01~200.00 200.01~250.00	4.0		0.6 0.7 0.8 0.9 1.0 1.2 1.5 1.8 2.0
9		ERLFR	5.5	60.00~100.00 100.01~150.00 150.01~200.00 200.01~250.00	4.5 5.0	0.8 0.9 1.0 1.2 1.5 1.8 2.0	0.3	40 50 60 70 50 60 70 80 90 60 70 80 90 100 100 120
			6	6	60.00~100.00 100.01~150.00 150.01~200.00 200.01~250.00	5.0		0.8 0.9 1.0 1.2 1.5 1.8 2.0
11		ERLFR	8	60.00~100.00 100.01~150.00 150.01~200.00 200.01~250.00	6.0 7.0	0.8 0.9 1.0 1.2 1.5 1.8 2.0 2.5	0.3	40 50 60 50 60 70 80 90 100 70 80 90 100 120 80 90 100 120 150
			10	10	60.00~100.00 100.01~150.00 150.01~200.00 200.01~250.00	8.0		1.0 1.2 1.5 1.8 2.0 2.5
17		ERLFR	12	60.00~100.00 100.01~150.00 150.01~200.00 200.01~250.00	10.0	1.2 1.5 1.8 2.0	0.3	40 60 60 70 80 90 100 70 80 90 100 120 80 90 100 120 150

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
ERLFR3 - 200.00 - P2.0 - W0.8 - R0.1 - N100

Days to Ship Quotation

Price Quotation

Precision Standard

Squareness of the tip corner
Pmax.
Pmin.
W plane as the base
(Pmax. - Pmin.) ≤ 0.02

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 P.1313)

Rectangular Ejector Pins
High Speed Steel SKH51 equivalent

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L dimension designation