



Locating Pins Pedestal Pins for Jigs / Height Adjusting Pins

CAD Data

The pocket is to collect dust (spatter etc.) generated during welding.

Pedestal Pins **RoHS 10**

Type	Material	Hardness
Pocket Type KMFR	1.7242/16CrMo4	Carburized Treated Hardness 55HRC ~ (Depth 0.7 ~ 0.8)
No Pocket Type MFR		

Part Number Type	H	D 1mm Increment	P 0.1mm Increment	B 1mm Increment	L 1mm Increment	T 1mm Increment	M Selection	€ Unit Price
KMFR	18		8.0-12.0	5-10	3-10	15-40	6 8	
MFR	22	12-20						
	25							
	28							
	30							

Order Example: KMFR30 - D15 - P8.0 - B8 - L5 - T18 - M6

Alterations

Wear Groove Example: Locating of work piece in both vertical and horizontal directions is possible. It is possible with the pocket to collect dust (spatter etc.) generated during welding. Best as locating pins for arc welding processes, during which a large amount of spatter.

Spec. Adds a 0.25mm groove at a position of 4mm from the edge of P dimension. (Ordering Code) MZ

Price Adder 2,00

Height Adjusting Pins **RoHS 10**

Type	Material	Hardness
Male Thread Set Screws HUPNA (Round) HUPND (Diamond)	1.7220/34CrMo4	Hardening Hardness 35-40HRC
Set Screws THUPNA (Round) THUPND (Diamond)	1.7242/16CrMo4	Carburized Hardness 55HRC ~ (Depth 0.7 ~ 0.8) Anti-carburizing on Thread

Reference: $\sin 15^\circ = 0.259$, $\sin 30^\circ = 0.5$, $\sin 45^\circ = 0.707$
 $\tan 15^\circ = 0.267$, $\tan 30^\circ = 0.577$, $\tan 45^\circ = 1$

- Male Thread **- Set Screw**

Tip Shape Selection

A Shape: $\phi P-2 \tan(A/2) \geq 0.73$

B Shape: $e = P-2 \tan(A/2) + R \sin(A/2)$

Part Number Type	Tip Shape	Dh7	P 0.1mm Increment	B 1mm Increment	L Selection	T 0.1mm Increment	H 1mm Increment	A Selection	E (Shape A) 1mm Increment	€ Unit Price	
Male Thread HUPNA HUPND THUPNA THUPND	A	6	3.0-7.0	5-50 (BxP4)	5 8 10	5.0-20.0	9-20	30	1-15	6	
			7.1-12.0							8	
		3.0-9.0	10								
		9.1-16.0	12								
		4.5-12.0	15								
		12.1-20.0	18								
	Set Screws HUPTA HUPTD THUPTA THUPTD	B	10T	4.5-12.0	10 12 15 18 20	13-25	15-30	90	120		10
				12.1-20.0							12
			4.5-12.0	15							
			12.1-20.0	18							
			9.0-14.0	10							
			14.1-25.0	12							
13.0-18.0	15										
16.1-32.0	18										

Order Example: HUPNA A 10 - P4.8 - B10 - L10 - T20.0 - H20 - A60 - E5

Alterations

Alterations	Flat Position	Flat	Wrench Flats	Thread Diameter
Code	KC	KD	SC	MC
Spec.	Ordering Code KC Changes the flat position to 90° from the standard position 0°. Applicable to Diamond shape only.	Ordering Code KD Machining on one side. When T5.0-7.0: 3mm When T7.1-20.0: 5mm Applicable to Round Shape Only.	Ordering Code SC10 Adds wrench flats. SC=1mm Increment SC>DSC-PSC-H-2 Applicable to Round Shape Only.	Ordering Code MC8 Changes the thread diameter. D/3:SM-D Mmin3 Relief at thread end is available. Applicable to external thread only.

Price Adder 2,00

Height Adjusting Washers / Locating Pin Holder for Jigs

-Male Thread / Female Thread-

CAD Data

Height Adjusting Washers **RoHS 10**

Type	Material	Hardness
HUK	1.7220/34CrMo4	Hardening 35-40HRC
THUK	1.7242/16CrMo4	Carburized 55HRC ~ (Depth 0.7 ~ 0.8)

Part Number Type	D	P 0.1mm Increment	T 0.1mm Increment	H 1mm Increment	€ Unit Price
HUK THUK	6	8.0-12.0		10-20	
	8	10.0-16.0		12-20	
	10	12.0-20.0	5.0-20.0	14-25	
	12	14.0-25.0		16-30	
	16	18.0-32.0		20-35	

Order Example HUK6 - P11.8 - T10.0 - H20

Days to Ship 8 Days

Price Express A 5,00 EUR/ piece P88

Volume Discount (Round down to one Cent) P87

Qty.	1-19	20-34	35-49	50-99
Rate	€ Unit Price	5%	10%	18%

Holder, Integrated **RoHS 10**

Type	Material	Hardness
Male Thread YGID	1.1191/CA5E	Treated Hardness 40-45HRC
Female Thread YGIDB		

Integrated Type

Type	Material	Hardness
Male Thread YGIDP	1.1191/CA5E	Treated Hardness 40-45HRC
Female Thread YGIDPB		

Holder - Male Thread **Holder - Female Thread** **Integrated - Male Thread** **Integrated - Female Thread**

Part Number Type	Dg6	P (H7) Selection	L 1mm Increment	F 1mm Increment	Male Thread	Female Thread
Holder (Male Thread) YGID (Female Thread) YGIDB	16	-0.006 -0.017	8		6 8 10	8 10
	20	-0.007	8 10 12	70-200	5-25	10 14
	25	-0.020	10 12 16			10 14 18
	30		12 16			

Part Number Type	Tip Shape	Dg6	P 0.1mm Increment	L 1mm Increment	A Selection	E (Shape A) 1mm Increment	Male Thread	Female Thread	R
Integrated (Male Thread) YGIDP (Female Thread) YGIDPB	A	12	-0.006	6.0-11.0	30	1-10	6 8	8	3
		16	-0.017	6.0-15.0			6 8 10	8 10	
	B	20	-0.007	6.0-16.0			8 10	10 14	
		30	-0.020	16.0-24.0			10 14 18	18	

Order Example: YGIDP B 20 - P12.8 - B30 - L100 - A30 - M8

D	YGID L70-150	YGIDB L151-200	YGIDP L70-150	YGIDPB L151-200
12				
16				
20				
25				
30				

Alterations

Alterations	Flat	Wrench Flats	Side Hole	Thread Length
Code	KD	SC	RH	FC
Spec.	Ordering Code KD10 Machines one side for detent. KD=1mm Increment KD=3-10 Not applicable to integrated type.	Ordering Code SC10-X10 Adds wrench flats. SC, X=1mm Increment Holders: 1<SC<L/3, SC=0; SC+X<L-l Integrated Type: 1<SC<L/3, SC=0 5<X<15 Integrated type is changed from size 10.	Ordering Code RH15 Adds hole for driving out the pin when exchanged. RH=1 mm Increment Not applicable to integrated type.	Ordering Code FC Changes the thread length to Mx2.

Price Adder 2,00