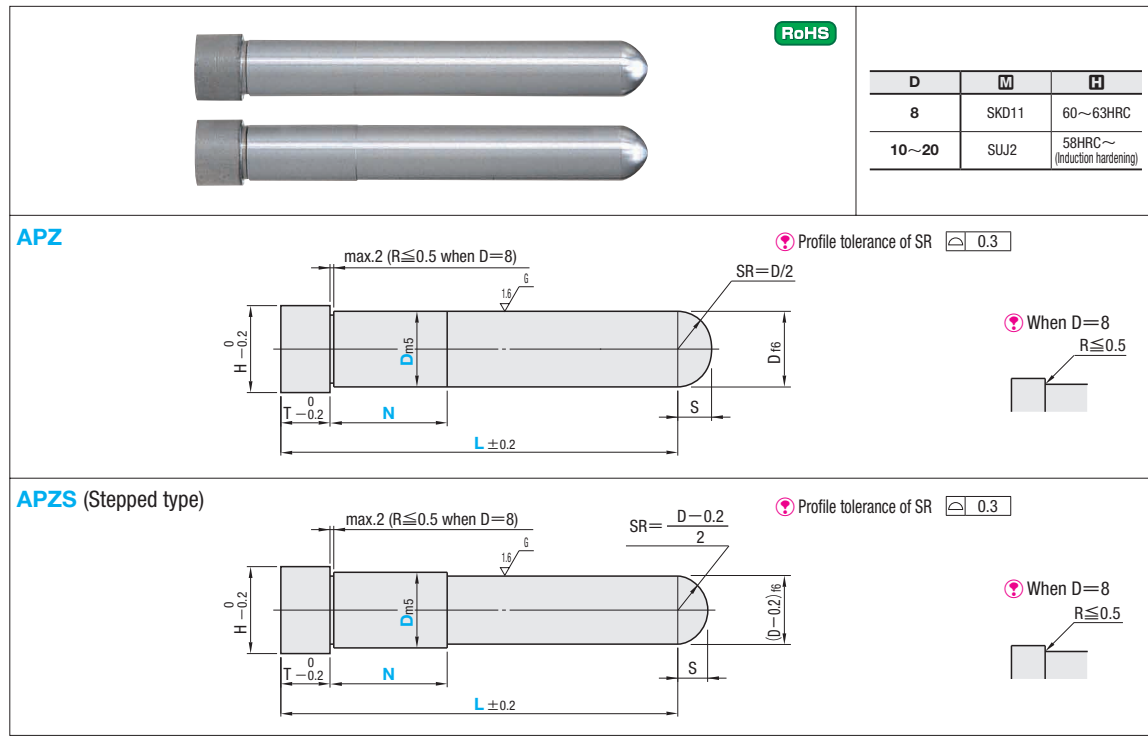


ANGULAR PINS

—ECONOMY TYPE—

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



Order **Part Number** — **L** — **N**
APZ13 — **100** — **N30.0**

Price **Quotation**

Days to Ship **Quotation**

Alterations **Part Number** — **L(LC)** — **N** — (ATC · KAC · TTC · DKC · DC · TM)
APZ13 — **100** — **N30.0** — **ATC** — **A15** — **TC6.0**
APZS13 — **LC95** — **N30.0** — **KAC** — **A15** — **DKC** — **DC12.5**

Alterations	Code	Spec.	1Code																
	ATC	Makes the head end into a cone and reduces the head thickness. ⓘ The full length becomes shorter by (T-TC). The full length is the same as LC when LC is combined. A=1° increments A=0~30° TC=0.1mm increments T≥TC≥2.0 (Designation method) ATC—A15—TC6.0 ⓘ TC≥H/2 tan A+2.0 TC min: Fractions are rounded up to the first decimal place. ⓘ TC = 16/2 tan15° + 2.0 = 4.1432 → 4.2	Quotation																
	KAC	Single flat chamfering Adds a single flat on the head. A=1° increments A=0~30° (Designation method) KAC—A15 ⓘ Combination with ATC · TTC not available.																	
	TTC	Head thickness change TTC=0.1mm increments T>TTC≥2.0 ⓘ The full length becomes shorter by (T-TTC). The full length is the same as LC when LC is combined.																	
	LC	Full length alteration LC=0.1mm increments <table border="1"> <tr><td>D</td><td>LC</td></tr> <tr><td>8</td><td>40<LC<110</td></tr> <tr><td>10</td><td></td></tr> <tr><td>12</td><td>50<LC<130</td></tr> <tr><td>13</td><td></td></tr> <tr><td>15</td><td>70<LC<140</td></tr> <tr><td>16</td><td></td></tr> <tr><td>20</td><td>90<LC<180</td></tr> </table> ⓘ When this pin is used in combination with an ATC, the overall length becomes the dimension from the thick end face of the flange specified by the ATC.	D	LC	8	40<LC<110	10		12	50<LC<130	13		15	70<LC<140	16		20	90<LC<180	Quotation
D	LC																		
8	40<LC<110																		
10																			
12	50<LC<130																		
13																			
15	70<LC<140																		
16																			
20	90<LC<180																		
	DKC	Press-fit section tolerance alteration Changes Dm5→D+0.005																	
	DC	Changes (D-0.2) step by designation. DC=0.1mm increments D-0.1≥DC>D-1 Tolerance of the step's external diameter : f6 ⓘ Available for APZS.																	
	TM	Adds a 30° taper on the edge of step. (Taper for installation) ⓘ Available for APZS. ⓘ Combination with DC not available.																	

D	m5	f6	T	H	S		Part Number Type	D	L	N 0.1mm increments	U/Price for 1~9	
					APZ	APZS					APZ	APZS
8	+0.012 +0.006	-0.013 -0.022	5	11	4	3.9	APZ	8	40	2≤N N≤L-T-1 or N=0 (No press-fit section)	Quotation	
									50			
									60			
									70			
									80			
									90			
10			10	13	5	4.9	APZ	10	100			
									110			
									40			
									50			
									60			
									70			
12			10	15	6	5.9	APZ	12	80			
									90			
									100			
									110			
									120			
									130			
13	+0.015 +0.007	-0.016 -0.027	10	16	6.5	6.4	APZS (Stepped type)	13	50			
									60			
									70			
									80			
									90			
									100			
15			10	18	7.5	7.4	APZS (Stepped type)	15	110			
									120			
									130			
									70			
									80			
									90			
16			10	19	8	7.9	APZS (Stepped type)	16	100			
									110			
									120			
									130			
									140			
									70			
20	+0.017 +0.008	-0.020 -0.033	10	23	10	9.9	APZS (Stepped type)	20	100			
									110			
									120			
									130			
									140			
									150			
160												
170												
180												

Angular Pins
Locking Blocks