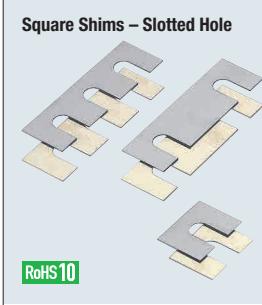


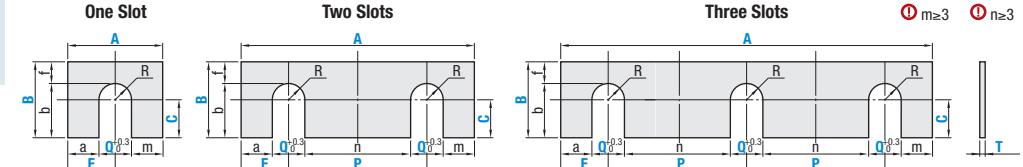
Square Shims

Slotted Hole / Round Hole



Square Shims – Slotted Hole

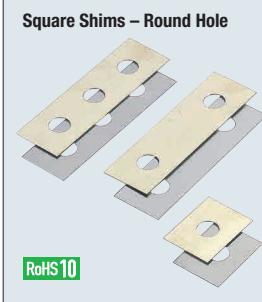
Part Number			Material	Hardness	Tolerance by Thickness							
One Slot	Two Slots	Three Slots			0.05	0.1	0.2	0.3	0.5	1.0	2.0	3.0
ASAFR	ASFFR	ASCFR	Low Carbon Steel Equivalent	—	—	±0.03	±0.04	±0.06	±0.11	±0.17	—	—
ASAFB	ASFFB	ASCFB	Brass (C28000 Brass or C2680P)	—	±0.005	±0.02	±0.03	±0.04	±0.05	±0.08	±0.12	±0.15
ASAFS	ASFFS	ASCFCS	T=0.05~1.0 304H Stainless Steel T=2.0, 3.0 304 Stainless Steel	370~430 HV min.	±0.005	±0.02	±0.03	±0.035	±0.04	±0.05	±0.20	±0.25



Part Number		A 1 mm Increment	B 1 mm Increment	T	0.5 mm Increment	0.1 mm Increment		
Type					Q	E	C	P
Low Carbon Steel Equivalent	Brass	304 Stainless Steel (H)	10~150	10~150	(0.05) 0.1 0.2 0.3	3~31	Q/2+3~	① For One Hole Type, specification of P is not necessary. 0 ~ B-(0/2+3)
One Hole	ASAFR	ASAFB	ASAFS					
Two Holes	ASFFR	ASFFB	ASFFS					
Three Holes	ASCFR	ASCFB	ASCFCS	16~200	10~200	(0.05) 0.1 0.2 0.3 (3.0)		Q+3~

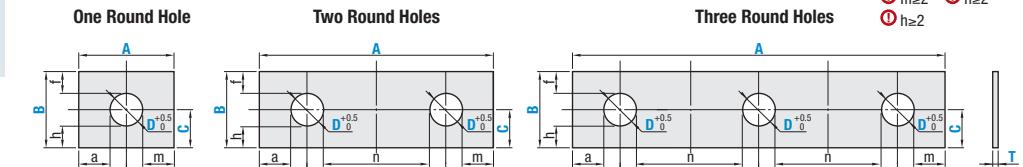
① Low Carbon Steel Equivalent is not available for T(0.05) and T(3.0).

Part Number Example ASFFB - A100 - B25 - T1.0 - Q12 - E15 - C12 - P70



Square Shims – Round Hole

Part Number			Material	Hardness	Tolerance by Thickness							
One Round Hole	Two Round Holes	Three Round Holes			0.05	0.1	0.2	0.3	0.5	1.0	2.0	3.0
ASACR	ASFGR	ASCCR	Low Carbon Steel or Equivalent	—	—	±0.03	±0.04	±0.06	±0.11	±0.17	—	—
ASACB	ASFCB	ASCCB	Brass (C28000 Brass or C2680P)	—	±0.005	±0.02	±0.03	±0.04	±0.05	±0.08	±0.12	±0.15
ASACS	ASFCS	ASCCS	T=0.05~1.0 304 Stainless Steel (H) T=2.0 / 3.0 304 Stainless Steel	370~430 HV min.	±0.005	±0.02	±0.03	±0.035	±0.04	±0.05	±0.20	±0.25



Part Number		A 1 mm Increment	B 1 mm Increment	T (Selection)	D 0.5 mm Increment	0.1 mm Increment		
Type					E	C	P	
Low Carbon Steel Equivalent	Brass	304 Stainless Steel (H)	10~150	10~150	(0.05) 0.1 (0.15) 0.2 0.3	3~100	D/2+2~ B-(D/2+2)	① For One Hole Type, specification of P is not necessary. D/2+2~ B-(D/2+2)
One Hole	ASACR	ASACB	ASACS					
Two Holes	ASFGR	ASFCB	ASFCS	15~200	10~200	1.0 2.0 (3.0)		
Three Holes	ASCCR	ASCCB	ASCCS					

① Low Carbon Steel Equivalent is not available for T(0.05) and T(3.0).

Part Number Example ASACR - A50 - B25 - T0.1 - D7.5 - E25 - C11 - P45
ASCCS - A120 - B15 - T3.0 - D10 - E15 - C7 - P45

Shim Plates

Standard / Configurable

Shim Plates – Standard / Configurable



Type		Material	Hardness	Tolerance by Thickness						
Standard Type	Dimension Configurable			0.05	0.1	0.2	0.3	0.5	1.0	
CIRA	CIRAF	Low Carbon Steel Equivalent	—	—	±0.03	±0.04	±0.06	±0.11	±0.17	—
CIRAB	CIRABF	C28000 Brass	—	±0.005	±0.02	±0.03	±0.04	±0.05	±0.08	±0.11
CIRAS	CIRASF	304 Stainless Steel	370~430 HV min.	±0.005	±0.02	±0.03	±0.035	±0.04	±0.05	±0.05

A / B	A / B Tolerances	
	Standard Type	Configurable Type
20~	+0.5 0	±0.5
400~	—	—
800~	±1.2	+5 0

Standard Type

Part Number	Selection		Available Types							
	Type	T	CIRA	CIRAB	CIRAS	0.1	0.2	0.3	0.5	1.0
20 30 40			•	•	•	•	•	•	•	•
50 60 70			•	•	•	•	•	•	•	•
80 90 100			•	•	•	•	•	•	•	•
120 150			•	•	•	•	•	•	•	•
40 50 60			•	•	•	•	•	•	•	•
70 80 90			•	•	•	•	•	•	•	•
100 120			•	•	•	•	•	•	•	•
60 70 80			•	•	•	•	•	•	•	•
90 100			•	•	•	•	•	•	•	•
120 150			•	•	•	•	•	•	•	•
200			•	•	•	•	•	•	•	•
60 70			•	•	•	•	•	•	•	•
80 90			•	•	•	•	•	•	•	•
100 120			•	•	•	•	•	•	•	•
150			•	•	•	•	•	•	•	•
200			•	•	•	•	•	•	•	•
150			•	•	•	•	•	•	•	•
200			•	•	•	•	•	•	•	•
1000			•	•	•					