

# Shim Plates

Standard / Configurable

# Shim Plates (SK Hardened Steel) / Shim Tapes / Shim Tape Boxes

Standard / Configurable

**Shim Plates**

Type		Material	Hardness	Thickness (T) Tolerance						
Standard Type	Configurable			0.05	0.1	0.2	0.3	0.5	1.0	
CIRA	CIRAF	SPCC Equivalent	-	-	±0.03	±0.04	±0.06	±0.11		
CIRAB	CIRABF	Brass (C2801P or C2680P)	-	±0.005	±0.02	±0.03	±0.04	±0.05	±0.08	
CIRAS	CIRASF	SUS304H	370-430HV	±0.005	±0.02	±0.03	±0.035	±0.04	±0.05	

A, B	A/B Tolerances	
	Standard Type CIRA, CIRAS	Configurable CIRAF
20~	+0.5 0	±0.5
400~	-	±0.8
800~	±1.2 +5 0	±1.2

RoHS 10

**Standard**

Part Number	Selection		Unit Price																				
Type	T	A	B	CIRA					CIRAB					CIRAS									
				0.1	0.2	0.3	0.5	1.0	0.05	0.1	0.2	0.3	0.5	1.0	0.05	0.1	0.2	0.3	0.5	1.0			
CIRA CIRAB CIRAS	(0.05) CIRA is not available.	20	30	40																			
		50	60	70	20																		
		80	90	100	30																		
		120	150																				
		40	50	60	40																		
		70	80	90	50																		
		100	120																				
		60	70	80																			
		90	100	60																			
		120	150	70																			
		200																					
		80	90	100	80																		
		120	150																				
		200																					
		100	120	100																			
150	120																						
200	150																						
200	200																						
1000	300																						
	320																						
	1200	365																					

Specify as A≥B. No specification available for those without value.

**Configurable**

Part Number	1mm Increment		Selection	Unit Price								
	A	B	T	CIRAF			CIRABF			CIRASF		
				T0.1-0.3	T0.5	T1.0	T0.05-0.3	T0.5	T1.0	T0.05-0.3	T0.5	T1.0
CIRAF CIRABF CIRASF	10~	100	10-100									
	20~	200	20-100									
	101~	200	101-200									
	201~	300	20-100									
			101-200									
			201-300									
	301~	400	20-100									
			101-200									
			201-300									
	401~	500	20-100	0.1								
			101-200	0.2								
			201-300	0.3								
	501~	600	20-100	0.5								
			101-200	1.0								
			201-300									

T=0.05→ B≤300

Ordering Example

Part Number - A - B  
CIRAB0.5 - 40 - 20

Part Number - A - B - T  
CIRASF - 527 - 118 - 0.2

**Shim Plates (SK Hardened Steel)**

Standard Type	Configurable	Material	Hardness
CIRAK	CIRAKF	SK	480-520HV

Thickness (T) Tolerance				
0.1	0.2	0.3	0.5	1.0
±0.01	±0.015	±0.025	±0.03	±0.05

**Standard**

Part Number	Type	T	A	B	0.1	0.2	0.3	0.5	1.0
CIRAK		0.1	100	100					
		0.2	250						
		0.3	500						
		1.0	1000						

**Standard**

A/B Tolerances
A 100-1000 ±1
B 100 +2-1

Ordering Example

Part Number - A - B  
CIRAK0.1 - 100 - 100

Part Number - A - B - T  
CIRAKF - 100 - 50 - 0.1

**Configurable**

Part Number	1mm Increment	Selection	Unit Price					
	A	B	T	T0.1	T0.2	T0.3	T0.5	T1.0
CIRAKF	10~	100	10-50					
			51-100					
	101~	200	10-50					
			51-100					
	201~	300	10-50	0.1				
			51-100	0.2				
	301~	400	10-50	0.3				
			51-100	0.5				
	401~	500	10-50	1.0				
			51-100					
	501~	600	10-50					
			51-100					
	601~	800	10-50					
			51-100					
	801~	1000	10-50					
		51-100						

Specify as A≥B.

**Configurable**

A/B Tolerances
A 10 ~ 399 ±0.5
A 400 ~ 799 ±0.8
A 800 ~ 1000 ±1.2
B 10 ~ 90 ±0.5
B 91 ~ 100 +2-1

**Shim Tapes**

Type	W	Length	Material	Hardness
FGSM	12.7	1m	SUS304H	370-420HV
FGSMW	45.0	1m	SUS304H	370-420HV
FGSML	12.7	5m	SK	480-600HV
SFGSM	12.7	1m	SUS304H	370-420HV
SFGSMW	45.0	1m	SUS304H	370-420HV
SFGSML	12.7	5m	SUS304H	370-420HV
DFGSMW	45.0	1m	C2801P or C2680P	

**Standard (Length 1m)**

Part Number	Type	Tolerance	FGSM	FGSMW	SFGSM	SFGSMW	DFGSMW
FGSM SFGSM (W=12.7mm)		0.005					
		0.01	±0.0005				
		0.015	±0.003				
		0.02					
		0.03					
		0.04					
		0.05					
		0.06					
		0.07					
		0.08					
		0.09					
		0.1					
		0.15					
		0.2					
		0.25					
FGSMW SFGSMW DFGSMW (W=45.0mm)		0.3					
		0.35					
		0.4					
		0.45					
		0.5					

No specification available for those without value.

**Long (Length 5m)**

Part Number	Type	Tolerance	FGSML	SFGSML	
FGSML SFGSML (W=12.7mm)		0.005			
		0.01	±0.0005		
		0.015	±0.003		
		0.02			
		0.03			
		0.04			
		0.05			
		0.06			
		0.07			
		0.08			
		0.09			
		0.1			
		0.15			
		0.2	±0.015		

No specification available for those without value.

Ordering Example

Part Number  
FGSM0.1

**Shim Tape Boxes**

Material: SUS304H Hardness: 370 ~ 420HV

Part Number	Type	No.	T	Tolerance	Width	Length	Unit Price
CMBX50		5	0.005	±0.0005	100mm	1500mm	
		10	0.01	±0.003			
		20	0.02				
		30	0.03				
		40	0.04				
		50	0.05				
		60	0.06	±0.005			
		80	0.08				
		100	0.10				
		150	0.15				
200	0.20	±0.020					

Ordering Example

Part Number  
CMBX50

As No.5 ~ 20 is extremely thin, shims may be wrinkled when pulled out.  
• A Solid Shim Tape in a Box.

- Major Usage
- Tool Installation
  - Tolerance Adjustments
  - Arrangement of Machinery and Equipment
  - Adjustment of Equipment
  - Installation of Equipment Bases
  - Bearing Clearance Adjustments