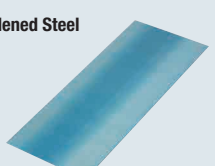


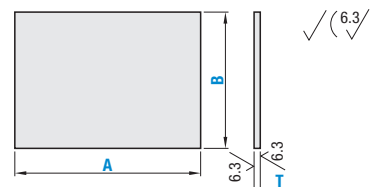
Shim Plates (SK Hardened Steel) / Shim Tapes / Shim Tape Boxes

Standard / Configurable

Washers / Collars / Shims



RoHS10



√(6.3)

Standard Type	Configurable	Material	Hardness
CIRAK	CIRAKF	Tool Steel	480~520 HV min.

Tolerance by Thickness				
0.1	0.2	0.3	0.5	1.0
±0.01	±0.015	±0.025	±0.03	±0.05

Standard Type

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

Standard Type

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

Part Number Example

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

Configurable Type

Part Number	1 mm Increment		Selection
	A	B	
CIRAKF	10-1000	10 - 100	0.1 0.2 0.3 0.5 1.0


Configurable Type

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

Part Number Example

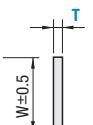
Part Number - A - B - T
CIRAKF - 100 - 50 - 0.1

Specify as A=B.



RoHS10

Type	W	Length	Material	Hardness
FGSM	12.7	1 m	T=0.005, 0.015 → 304 Stainless Steel	370-420 HV min.
FGSMW	45.0	1 m	T=0.01, 0.02-0.5 → SK	480-600 HV min.
FGSML	12.7	5 m		
SFGSM	12.7	1 m	304 Stainless Steel	370-420 HV min.
SFGSMW	45.0	1 m		
SFGSML	12.7	5 m		
DFGSMW	45.0	1 m	C28000 Brass or C2680P	



Standard Type Length 1 m

Part Number	T	T Tol.	Available Types				
			FGSM	FGSMW	SFGSM	SFGSMW	DFGSMW
FGSM	0.005	±0.0005	•	•	•	•	•
	0.01	±0.003	•	•	•	•	•
	0.015		•	•	•	•	•
	0.02		•	•	•	•	•
	0.03	±0.005	•	•	•	•	•
	0.04		•	•	•	•	•
	0.05		•	•	•	•	•
	0.06		•	•	•	•	•
	0.07		•	•	•	•	•
	0.08		•	•	•	•	•
0.09	•		•	•	•	•	
0.1	•		•	•	•	•	
0.15	±0.015		•	•	•	•	•
0.2			•	•	•	•	•
0.25		•	•	•	•	•	
0.3		•	•	•	•	•	
0.35		•	•	•	•	•	
0.4	•	•	•	•	•		
0.45	•	•	•	•	•		
0.5	•	•	•	•	•		


Long Type Length 5 m

Part Number	T	T Tolerance
FGSML	*0.005	±0.0005
	0.01	±0.003
	0.015	
	0.02	
	0.03	±0.005
	0.04	
	0.05	
	0.06	
	0.07	
	0.08	
0.09		
0.1		
0.15	±0.015	
0.2		

Part Number Example

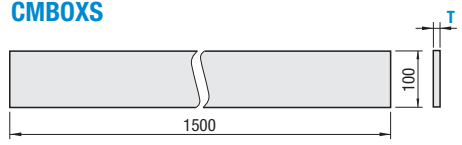
Part Number
FGSM0.01

Not available for SFGSML.



RoHS10

CMBOXS



Material: 304 Stainless Steel Hardness: 370-420 HV min.

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

As No.5-20 are extremely thin, shims may wrinkle when pulled out.

Part Number Example

Part Number
CMBXOS50

- Main Uses:**
- Tool Installation
 - Tolerance Adjustments
 - Arrangement of Machinery and Equipment

- Adjustment of Equipment
- Installation of Equipment Bases
- Bearing Clearance Adjustments



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