


Grub Screw Sets

Ball Point, Thrust Point, Stainless Steel

Grub Screw Sets / Clamp Plates / Shims for Clamp Plates

Rubber Pads, Flanged

Ball Point



Type	Screw	Pad
SGBS	Straight Slot Groove	Polyacetal
SGBSN	Hex Socket	(Mat Black)

SGBSN Hex Socket

SGBS Straight Slot Groove

15°

Pad Part d

B

D

RoHS 10

Part Number	Type	M (Coarse)	L	e	D	h	H	d	B	B1	Mass (g)	Unit Price
SGBS	SGBSN	8	40	2.5	15	2.5	7.6	8.6	6.1	4	12	
		50	15								15	
		63	19								19	
		50	22								22	
		63	29								29	
		80	37								37	
10	SGBSN	63	3.4	18	2.5	9.2	11	7.8	5	5	41	
		80	3.4	21	3	10	13	9.4	6	6	53	
		100	68								68	
		12	80								80	


Example

Features

- Useable to tighten or position the workpiece or as a stopper.
- Clamping Screws can be made easily by assembling with a lever or a knob.
- Pad is made of plastic and doesn't hurt workpieces. It is effective when the workpiece's surface is uneven or tilted.

Screws and pads are not assembled when shipped.

Thrust Point



Type	Screw	Pad	Cap
SGTS	Standard	Polyacetal	-
SGTP	Wide-Angle	Polyacetal	-
SGTTP	Wide-Angle with Cap	Polyacetal	Polyacetal Cap

SGTS

SGTP

SGTTP

5°

12°

Retaining Ring

Retaining Ring

Polyacetal Cap

RoHS 10

Part Number	Type	M (Coarse)	L	Mass (g)	Unit Price	
SGTS	SGTS	6	30	9		
		40	10			
		50	12			
SGTS	SGTP	8	40	21	25	26
		50	24	28	29	
		60	26	30	31	
		50	42	48	50	
		60	49	55	57	
		80	54	60	62	
		60	72	76	79	
		70	88	92	95	
		80	98	102	105	
		100	154	158	161	
		70	144	160	162	
		80	159	175	177	
SGTTP	SGTTP	100	259	275	277	
		125	300	316	318	
		90	274	-	-	
		100	305	-	-	
SGTS	SGTS	125	355	-	-	
		150	397	-	-	
		12	30	-	-	
		15	30	-	-	
		16	30	-	-	

M (Coarse)	Screw Dimension	Pad Dimension
6	B 4.5, b 4, Z1 5.4, Z2 2.5, B1 3, D 12, h1 2.5, H1 7, t 4, d 10, C 4.6, e1 2.2, h2 -, H2 -, e2 -, D1 -	D 10, C 4.6, e1 2.2, h2 -, H2 -, e2 -, D1 -
8	B 6, b 5.4, Z1 6.8, Z2 3, B1 4, D 16, h1 4, H1 9, t 5, d 12(15), C 6.1(8.3), e1 3, h2 7, H2 8, e2 2.2, D1 19	D 12(15), C 6.1(8.3), e1 3, h2 7, H2 8, e2 2.2, D1 19
10	B 8, b 7.2, Z1 8.2, Z2 4.5, B1 5, D 20, h1 5, H1 11, t 6, d 15(18), C 8.1(8.4), e1 3.6, h2 8.5, H2 10, e2 2.6, D1 23	D 15(18), C 8.1(8.4), e1 3.6, h2 8.5, H2 10, e2 2.6, D1 23
12	B 10, b 8.6, Z1 10.6, Z2 5, B1 6, D 25, h1 6, H1 13, t 7, d 18(21), C 10.1(10.2), e1 4.5, h2 10, H2 11, e2 2.9, D1 28	D 18(21), C 10.1(10.2), e1 4.5, h2 10, H2 11, e2 2.9, D1 28
16	B 12, h1 10.6, Z1 12.1, Z2 5.3, B1 8, D 32, h1 7.5, H1 15, t 8, d 22(27), C 12.1(12.5), e1 5.3, h2 10, H2 14, e2 4.5, D1 35	D 22(27), C 12.1(12.5), e1 5.3, h2 10, H2 14, e2 4.5, D1 35
20	B 15.5, h1 14.4, Z1 12.4, Z2 5.5, B1 10, D 40, h1 9, H1 16, t 8, d 28, C 15.6, e1 5.6, h2 -, H2 -, e2 -, D1 -	D 28, C 15.6, e1 5.6, h2 -, H2 -, e2 -, D1 -

For dimensions C and d, the values shown in parentheses are the dimensions for SGTP and SGTTP.

SGTTP is SGTP attached with a polyacetal cap.

Screws and pads are not assembled when shipped.

Example

Retaining Ring

Open Side

Open Side

Fig. 1

Thrust Point


Fig. 2

How to Assemble Screw Parts and Pad Parts

- Insert a tilted grub screw to the open side of the retaining ring set in the thrust pad as shown in Fig. 1.
- Pull the grub screw up to fit it into the pad as shown in Fig. 2.

*If extra force is applied to the retaining ring, or if the grub screw is inserted into it without being tilted against its open side, the retaining ring may be damaged.

Stainless Steel



SGKS

8° (Operating Range)

RoHS 10

Material: SUS304

Part Number	Type	M (Coarse)	L Selection	D	D1	d	L1	L2	(l)	B	Unit Price
SGKS	SGKS	4	30	13	7	2.2	8	2	2	2	
		6	30	50	9	3.2	8	2	3	3	
		8	30	50	16	11	5.2	9	3	4	
		10	50	80	20	13	6.2	9	3	5	

Screw and pad are swaged for Stainless Steel Type. (Screw and pad cannot be separated.)

Ordering Example

Part Number - L


SGBS10 - 50

SGTS8 - 60

SGKS4 - 30

Features: The rubber-baked pad prevents the clamped workpieces from being damaged.

Grub Screw Sets - Rubber Pads



Type	Screw	Pad	Pad End Face
SGKG	SCM435 45HRC~ Black Oxide	SS400 Black Oxide	NBR

RoHS 10

The coatings peeled off at swaging are retouched with repair sprays.

Part Number	Type	M (Coarse)	L Selection	D	t	L1	L2	B	Unit Price
SGKG	SGKG	4	30	12	2	3	5	2	
		6	30	40	12	2	3	5	
		8	40	50	16	2	4	6	
		10	50	80	20	2	4	6	
		12	100	24	3	4	8	6	
		16	125	30	3	4	11	8	

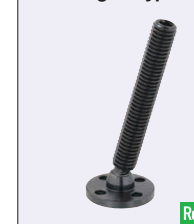
Ordering Example

Part Number - L

SGKG8 - 60

Features: Optional attachments can be mounted using through holes on the pad.

Grub Screw Sets - Flanged Type



Type	Screw	Pad
SGKA	SCM435 45HRC~ Black Oxide	SS400 Black Oxide

RoHS 10

The coatings peeled off at swaging are retouched with repair sprays.


Part Number	Type	M (Coarse)	L Selection	D	P	D1	D2	L1	L2	L3	d1	B	Unit Price	
SGKA	SGKA	4	30	20	14	7	2.2	3	5	2	3.5	2		
		6	30	40	20	14	7	3.2	3	5	2	3.5	3	
		8	40	50	22	16	9	5.2	4	6	3	4.5	4	
		10	50	80	28	20	12	6.2	4	6	3	4.5	5	
		12	100	30	22	14	8.1	4	8	5	6	6	6	
		16	125	37	28	18	11.0	11	7	5.5	8	8	8	

Ordering Example

Part Number - L

SGKA12 - 100

Clamp Plates



Type	Material	Hardness
PCWN	S45C	-
PCW	Equivalent	40-45HRC (Induction Hardened)
PCWJ	Polyacetal	-

RoHS 10

No R1 for PCWJ (Polyacetal).

Induction hardening is applicable to PCW only.

Part Number	Type	A	T Selection	L Selection	X	Y	d	d1	h	Unit Price
PCWN	PCWJ	12	12	30	7	6	4.5	8	5	
		15			9	7.5	6.6	11	7	
		16			11	8	9	14	9	
		19			11	9.5	9	14	9	
		25			13	15	11	18	11	
		30			13	20	11	18	11	
		40			13	25	11	18	11	
		50			13	25	11	18	11	


Ordering Example

Part Number - T - L

PCWN50 - 20 - 100

PCW50 - 2 - 75

Shims for Clamp Plates



Part Number	Type	A	T Selection	L Selection	D	b	e	Unit Price
CPWC	CPWC	12	0.1 0.2 (SUS304)	30 50 75 100	5	7	6	
		7			9	7.5		
		8			8			
		10			11	9.5		
		12			13	12.5		
		15			15	15		
CPWC	CPWC	30	0.5 1 2 4 (SPCC)	50 75 100	12	13	20	
		15			15			
		20			20			
		25			25			

Material: SUS304(T=0.1, 0.2)SPCC(T=0.5-4)