

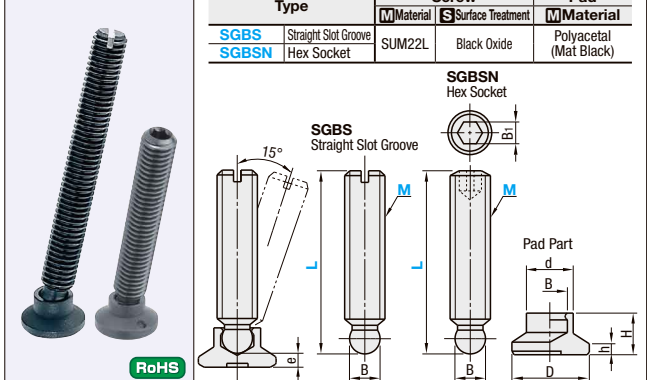
Grub Screw Sets

Ball Point, Thrust Point, Stainless Steel

Grub Screw Sets / Clamp Plates / Shims for Clamp Plates

Rubber Pads, Flanged

Ball Point



RoHS

Type	Screw	Pad
	M Material H Hardness S Surface Treatment	M Material S Surface Treatment M Material
SGBS	Straight Slot Groove	Polyacetal
SGBSN	Hex Socket	(Mat Black)

Part Number Table:

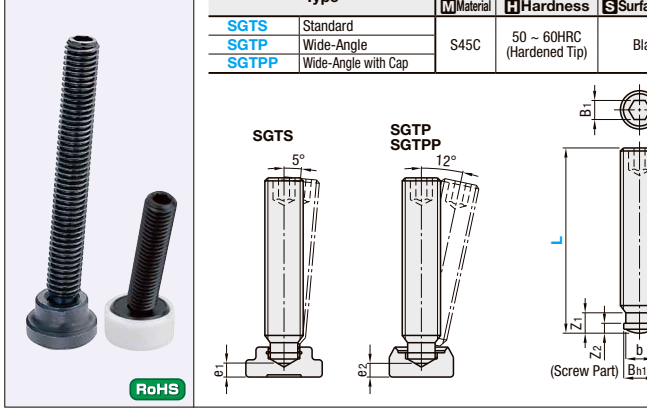
Part Number Type	M (Coarse)	L	e	D	h	H	d	B	B1	Mass (g)	Unit Price
8	40	2.5	15	2.5	7.6	8.6	6.1	4		12	
	50									15	
	63									19	
10	50	3.4	18	2.5	9.2	11	7.8	5		22	
	63									29	
	80									37	
12	63	3.4	21	3	10	13	9.4	6		41	
	80									53	
	100									68	

Example: **EX** Screws and pads are not assembled when shipped.

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.

Thrust Point



RoHS

Type	Screw	Pad	Cap
	M Material H Hardness S Surface Treatment	M Material H Hardness S Surface Treatment	M Material
SGTS	Standard		-
SGTP	Wide-Angle		-
SGTPP	Wide-Angle with Cap		Polyacetal

Part Number Table:

Part Number Type	M (Coarse)	L	SGTS	SGTP	SGTPP	Unit Price
6	30	9	-	-	-	-
	40	10	-	-	-	-
	50	12	-	-	-	-
8	40	21	25	26	-	-
	50	24	28	29	-	-
	60	26	30	31	-	-
10	50	42	48	50	-	-
	60	49	55	57	-	-
	80	54	60	62	-	-
12	60	72	76	79	-	-
	70	88	92	95	-	-
	80	98	102	105	-	-
16	100	154	158	161	-	-
	70	144	160	162	-	-
	80	159	175	177	-	-
20	100	259	275	277	-	-
	125	300	316	318	-	-
	90	274	-	-	-	-

Example: **EX** Retaining Ring, Open Side, Thrust Point.

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.

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

SGTPP is SGTP attached with a polyacetal cap.

Screws and pads are not assembled when shipped.

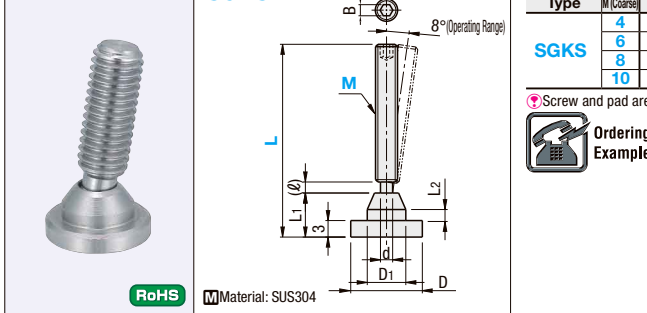
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Stainless Steel



RoHS

Material: SUS304

Part Number Table:

Part Number Type	M (Coarse)	L Selection	D	D1	d	L1	L2	(l)	B	L30	L50	L80	Unit Price
4	30	13	7	2.2	8	2		2		-	-	-	
	50												
6	30	16	9	3.2	8	3		3		-	-	-	
	50												
8	30	20	11	5.2	9	4		4		-	-	-	
	50												
10	30	25	13	6.2	9	5		5		-	-	-	
	50												

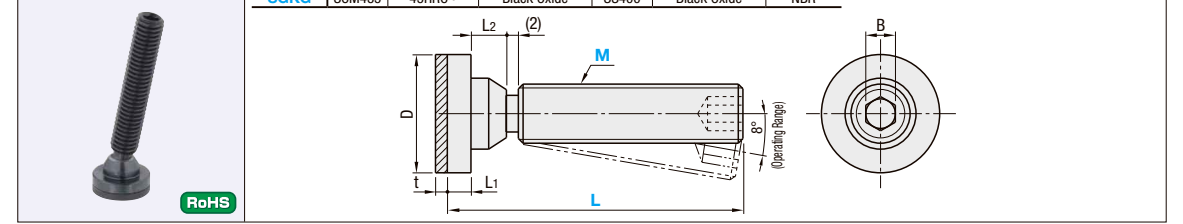
Example: **EX** Part Number - L

SGBS10 - 50
SGTS8 - 60
SGKS4 - 30

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

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

Grub Screw Sets - Rubber Pads



RoHS

Type	Screw	Pad	Pad End Face
	M Material H Hardness S Surface Treatment	M Material S Surface Treatment	M Material
SGKG	SCM435 45HRC~ Black Oxide	SS400 Black Oxide	NBR

Part Number Table:

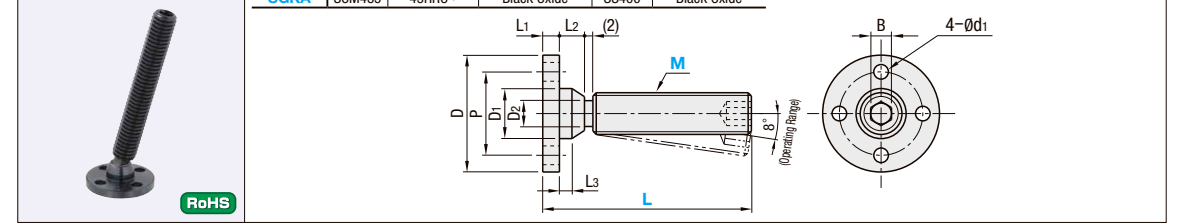
Part Number Type	M (Coarse)	L Selection	D	t	L1	L2	B	Unit Price
							L=30, 40 L=50, 60 L=80~	
SGKG	4	30	12		3	5	2	-
	6	30	12	2	3	5	3	-
	8	40	16		4	6	5	-
	10	50	20		4	6	5	-
	12	80	24		4	8	6	-
	16	100	30		3	11	8	-

Example: **EX** Part Number - L

SGKG8 - 60

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

Grub Screw Sets - Flanged Type



RoHS

Type	Screw	Pad
	M Material H Hardness S Surface Treatment	M Material S Surface Treatment
SGKA	SCM435 45HRC~ Black Oxide	SS400 Black Oxide

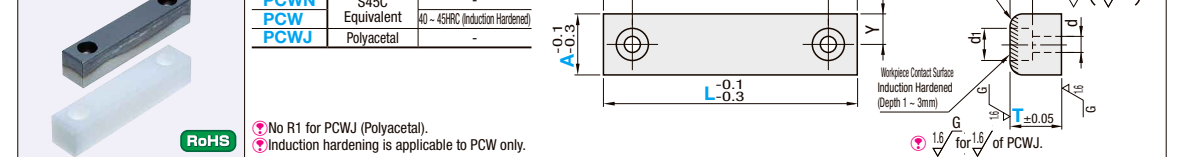
Part Number Table:

Part Number Type	M (Coarse)	L Selection	D	P	D1	D2	L1	L2	L3	d1	B	Unit Price
											L=30, 40 L=50, 60 L=80~	
SGKA	4	30	20	14	7	2.2	3	5	2	3.5	2	-
	6	30	20	14	7	3.2	3	5	2	3.5	3	-
	8	40	22	16	9	5.2					4	-
	10	50	28	20	12	6.2					5	-
	12	80	30	22	14	8.1					6	-
	16	100	37	28	18	11.0					8	-

Example: **EX** Part Number - L

SGKA12 - 100

Clamp Plates



RoHS

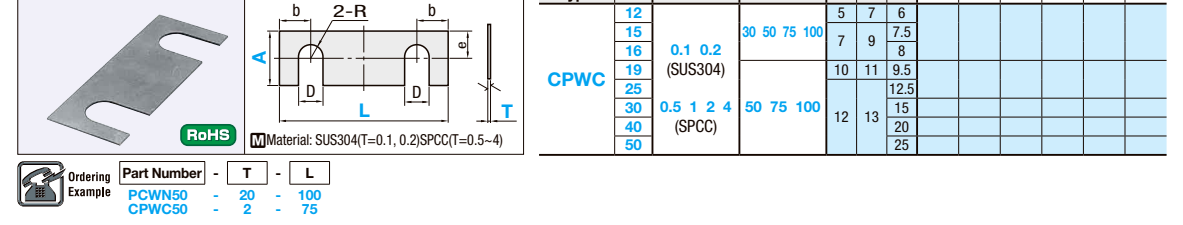
Type	M Material	H Hardness
PCWN	S45C	-
PCW	Equivalent	40-45HRC (Induction Hardened)
PCWJ	Polyacetal	-

Part Number Table:

Part Number Type	A	T Selection	L Selection	X	Y	d	d1	h	Unit Price
									PCWN PCW PCWJ
PCWN PCW PCWJ	12	12	30	7	6	4.5	8	5	-
	15	15	50	9	7.5	6.6	11	7	-
	16	16	75	11	9.5	9	14	9	-
	19	19	100	13	12.5	11	18	11	-
	25	25	50	15	15	11	18	11	-
	30	30	75	20	20				-
	40	40	100	25	25				-
	50	50							-

Example: **EX** Panel, PCWN.

Shims for Clamp Plates



RoHS

Part Number Type	A	T Selection	L Selection	D	b	e	Unit Price
							T0.1 T0.2 T0.5 T1 T2 T4
CPWC	12		30	5	7	6	-
	15		50	7	9	7.5	-
	16	0.1	75	10	11	8	-
	19	0.2	100	12	13	9.5	-
	25	(SUS304)	50	15	15	12.5	-
	30	1	75	20	20	15	-
CPWC	40	2	100	25	25	20	-
	50	(SPCC)				25	-

Example: **EX** Part Number - T - L

PCWN50 - 20 - 100
CPWC50 - 2 - 75