

Grub Screw Sets

Ball Point, Thrust Point, Stainless Steel

Ball Point



RoHS10

Type	Screw	Pad
SGBS	Straight Slot Groove	Material
SGBSN	Hex Socket	Material
	EN 1.0715 Equiv.	Black Oxide
		Material

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	
		10	50	3.4	18	2.5	9.2	11	7.8	5	15	
		12	63	3.4	21	3	10	13	9.4	6	19	
		10	50	3.4	18	2.5	9.2	11	7.8	5	22	
		12	63	3.4	21	3	10	13	9.4	6	29	
		10	50	3.4	18	2.5	9.2	11	7.8	5	37	
		12	63	3.4	21	3	10	13	9.4	6	41	
		10	50	3.4	18	2.5	9.2	11	7.8	5	53	
		12	63	3.4	21	3	10	13	9.4	6	68	
		10	50	3.4	18	2.5	9.2	11	7.8	5		

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.

Thrust Point



RoHS10

Type	Screw	Pad	Cap
SGTS	Standard	Material	Material
SGTP	Wide-Angle	Material	Material
SGTTP	Wide-Angle with Cap	Material	Material
	EN 1.1191 Equiv.	50 ~ 60HRC (Hardened Tip)	Black Oxide
		EN 1.0715 Equiv.	50 ~ 60HRC
			Black Oxide
			Material

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 C 10 e1 4.6 e2 2.2 D1 19
8	B 6 b 5.4 Z1 6.8 Z2 3 B1 4	D 16 h1 4 H1 9 t 5 C 12 e1 6.1 e2 3 D1 23
10	B 8 b 7.2 Z1 8.2 Z2 4 B1 5	D 20 h1 5 H1 11 t 6 C 15 e1 8.1 e2 4 D1 26
12	B 10 b 8.6 Z1 9.6 Z2 5 B1 6	D 25 h1 6 H1 13 t 7 C 18 e1 9.6 e2 5 D1 28
16	B 12 b 10.6 Z1 11.6 Z2 6 B1 8	D 32 h1 7 H1 15 t 8 C 22 e1 11.6 e2 6 D1 35
20	B 15.5 b 14.4 Z1 15.4 Z2 7.5 B1 10	D 40 h1 9 H1 16 t 10 C 28 e1 15.6 e2 7.5 D1 45

Example

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



RoHS10

Type	Screw	Pad
SGKS	Straight Slot Groove	Material
	EN 1.4301 Equiv.	Black Oxide
		Material

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	13	9	3.2	8	2	3	3	
		8	30	16	11	5.2	9	3	4	4	
		10	30	20	13	6.2	9	3	5	5	
		12	30	20	13	6.2	9	3	5	5	
		16	30	20	13	6.2	9	3	5	5	
		20	30	20	13	6.2	9	3	5	5	
		24	30	20	13	6.2	9	3	5	5	
		28	30	20	13	6.2	9	3	5	5	
		32	30	20	13	6.2	9	3	5	5	

Example

Part Number

SGBS10 - 50

SGTS8 - 60

SGKS4 - 30

Grub Screw Sets / Clamp Plates / Shims for Clamp Plates

Rubber Pads, Flanged

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

Grub Screw Sets - Rubber Pads



RoHS10

Type	Screw	Pad	Pad End Face
SGKG	Material	Material	Material
	EN 1.7220 Equiv.	45HRC ~	Black Oxide
		EN 1.0038 Equiv.	Black Oxide
			NBR

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	12	2	3	5	3	
		8	30	16	2	3	5	4	
		10	30	20	2	3	5	5	
		12	30	24	2	3	5	6	
		16	30	30	2	3	5	8	
		20	30	30	2	3	5	8	
		24	30	30	2	3	5	8	
		28	30	30	2	3	5	8	
		32	30	30	2	3	5	8	

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

Grub Screw Sets - Flanged Type



RoHS10

Type	Screw	Pad
SGKA	Material	Material
	EN 1.7220 Equiv.	45HRC ~
		Black Oxide
		EN 1.0038 Equiv.
		Black Oxide

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	20	14	7	3.2	3	5	2	3.5	3	
		8	30	22	16	9	5.2	4	6	3	4.5	4	
		10	30	28	20	12	6.2	4	6	3	4.5	5	
		12	30	30	22	14	8.1	4	8	5	6	6	
		16	30	37	28	18	11.0	11	7	5.5	8	8	
		20	30	37	28	18	11.0	11	7	5.5	8	8	
		24	30	37	28	18	11.0	11	7	5.5	8	8	
		28	30	37	28	18	11.0	11	7	5.5	8	8	
		32	30	37	28	18	11.0	11	7	5.5	8	8	

Clamp Plates



RoHS10

Type	Material	Hardness
PCWN	EN 1.1191	-
PCW	EN 1.1191	40 ~ 45HRC (Induction Hardened)
PCWJ	Polycetal	-

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

Shims for Clamp Plates



RoHS10

Part Number	Type	A	T Selection	L Selection	D	b	e	Unit Price
CPWC	CPWC	12	0.1	30	5	7	6	
		15	0.1	30	7	9	7.5	
		16	0.1	30	7	9	7.5	
		19	0.1	30	10	11	8	
		25	0.1	30	10	11	8	
		30	0.1	30	12	13	9.5	
		40	0.1	30	12	13	12.5	
		50	0.1	30	12	13	15	
		50	0.1	30	12	13	20	
		50	0.1	30	12	13	25	