

# Screw Jacks / Leveling Screws

Standard Type / Large Holes for Adjustment with Wrench Flats

**Screw Jacks**

Type	Material	Surface Treatment
SJKB	1045 Carbon Steel	Black Oxide
SJKN	Carbon Steel	Electroless Nickel Plating
SJKS	304 Stainless Steel	—

**Application Example**

RoHS10

**Part Number Example** Part Number - S  
SJKB17 - 20

**Part Number Alterations** Part Number - S - (NR)  
SJKS24 - 10 - NR

**Alteration Code** Wrench Hole Machining on Nut Side  
NR

**Spec.** Adds 6 wrench holes on the nut side.

Part Number	Type	B	S (Stroke)	M (Fine)	M x Pitch (Fine)	d	L			(C)	Applicable Screw	Allowable Load (N)	
							S=10	S=20	S=30			1045 Carbon Steel or Equivalent	304 Stainless Steel
SJKB	17	10 20 30		10	10 x 1.0	5.5	30-40	40-60	50-80	19.6	M5	332	198
SJKN	19			12	12 x 1.0	7				21.9	M6	406	242
SJKS	24			16	16 x 1.5	9				27.7	M8	535	320
	27			20	20 x 1.5	11				31.2	M10	683	408

The allowable loads are theoretical reference values and not guaranteed values.

**Leveling Screws – Standard Type**

Type	Material	Surface Treatment
LVW	1045 Carbon Steel or Equivalent	Black Oxide
LVWM	Carbon Steel	Electroless Nickel Plating
LVWS	304 Stainless Steel	—

RoHS10

**Application Example**

**How to Use**

- Leveling screws are used to adjust parallelism of a base plate. (The base plate must be tapped to use these screws.)
- LWV Leveling Screw: Loosen the mounting screw first, once loose the LWV can be turned to provide fine adjustments to the base plate.

Part Number	Type	M (Fine)	L		B	M x Pitch (Fine)	d	H <sub>1</sub>	H	Applicable Bolts	Available Types									
			Selectable	Config. 1 mm Increment							L Selectable Type	L Configurable Type	LVW	LVWM	LVWS	LVFW	LVFWM	LVFWS		
L Selectable	L Configurable	12	10 15 20	10-30	6	12 x 1.0	3.5	4	8.5	M3	•	•	•	•	•	•	•	•	•	•
		16	15 20 30	15-40	8	16 x 1.5	4.5	5	12	M4	•	•	•	•	•	•	•	•	•	•
LVW	LVFW	20	15 20 25 35 40	15-40	10	20 x 1.5	5.5	6	13	M5	•	•	•	•	•	•	•	•	•	•
LVWM	LVFWM	24	20 25 30 40	20-50	14	24 x 1.5	6.5	8	17	M6	•	•	•	•	•	•	•	•	•	•
LVWS	LVFWS	30	25 30 40	25-60	17	30 x 1.5	9	10	22	M8	•	•	•	•	•	•	•	•	•	•

**Part Number Example** Part Number - L  
LVFW12 - 20

**Leveling Screws – Large Holes for Adjustment with Wrench Flats**

Type	Main Body		Accessories (Washer)	
	Material	Surface Treatment	Material	Surface Treatment
LVGB	1045 Carbon Steel or Equivalent	Black Oxide	Low Carbon Steel	Trivalent Chromate
LVGM	Carbon Steel	Electroless Nickel Plating	Carbon Steel	Electroless Nickel Plating
LVGS	304 Stainless Steel	—	304 Stainless Steel	—

RoHS10

**Part Number Example** Part Number - L  
LVGB20 - 40

**Application Example**

As the inner diameter is larger than the mounting screws, the horizontal movement of the plate is allowable.

As the T dimension part is served for wrench tightening, the clearance can be prevented when tightening the mounting screws.

Part Number	Type	M (Fine)	L Selection	B	M x Pitch (Fine)	d	T	Applicable Bolts	Accessories						Available Types					
									LVGB / LVGM		LVGS	LVGB		LVGM		LVGS				
		12	10 15 20	10	12 x 1.0	6	6	M4	D	d <sub>1</sub>	t	D	d <sub>1</sub>	t	L=10-30	L=35, 40	L=10-30	L=35, 40	L=10-30	L=35, 40
LVGB		16	15 20 25 30	12	16 x 1.5	8	8	M5	•	•	•	•	•	•	•	•	•	•	•	•
LVGM		20	15 20 25 30 35 40	17	20 x 1.5	9	10	M6	•	•	•	•	•	•	•	•	•	•	•	•
LVGS		24	20 25 30 35 40	19	24 x 1.5	9	10	M6	•	•	•	•	•	•	•	•	•	•	•	•
		30	25 30 35 40	22	30 x 1.5	12	12	M8	•	•	•	•	•	•	•	•	•	•	•	•

# Leveling Bolts / Lock Nuts

Standard / Wrench Flats Thick Type

**Leveling Bolts – Standard Type**

Type	Material	Surface Treatment
LVB	1045 Carbon Steel or Equivalent	Black Oxide
LVBM	Carbon Steel	Electroless Nickel Plating
LVBS	304 Stainless Steel	—

RoHS10

**Part Number Example** Part Number - L  
LVB12 - 15  
LVFB20 - 60

**Application Example**

**How to Use**

LVB Leveling Screw: Loosen mounting screw first, LVB can then be turned to provide the adjustments to the base plate. Lock nuts (LVN) are used to prevent rotation.

\*When the position of the base plate is decided, tighten the mounting screw again.

Part Number	Type	M (Fine)	L		d	M x Pitch (Fine)	T	B	Applicable Bolts	Compliance with Standard										
			Selectable	Config. 1 mm Inc.						Available Types										
L Selectable	L Configurable	8	5 10 15 20 25 30	5-50	3.5	8 x 0.75	4	13	M3	•	•	•	•	•	•	•	•	•	•	•
		10	10 15 20 25 30 40 50	10-60	5.5	10 x 1.0	4	17	M4, 5	•	•	•	•	•	•	•	•	•	•	•
		12	10 15 20 25 30 40 50	10-60	7	12 x 1.0	4	19	M6	•	•	•	•	•	•	•	•	•	•	•
LVB	LVFB	16	15 20 25 30 40 50 60 80	15-80	9	16 x 1.5	5	22	M8	•	•	•	•	•	•	•	•	•	•	•
LVBM	LVFBM	20	20 25 30 40 50 60 80	15-100	13	20 x 1.5	5	27	M10, 12	•	•	•	•	•	•	•	•	•	•	•
LVBS	LVFBS	24	25 30 40 50 60 80	20-100	17	24 x 1.5	8	32	M16	•	•	•	•	•	•	•	•	•	•	•
		30	30 40 50 80 100	25-120	23	30 x 1.5	8	36	M20	•	•	•	•	•	•	•	•	•	•	•

**Leveling Bolts – Wrench Flats Thick Type**

Type	Material	Surface Treatment
LLVBB	1045 Carbon Steel or Equivalent	Black Oxide
LLVBM	Carbon Steel	Electroless Nickel Plating
LLVBS	304 Stainless Steel	—

RoHS10

**Part Number Example** Part Number - L  
LLVBM24 - 30

**Application Example**

Part Number	Type	M (Fine)	L 1 mm Increment	d	M x Pitch (Fine)	T	B	Applicable Bolts
LLVBB		8	5-35	3.5	8 x 0.75	13	13	M3
		10	10-55	5.5	10 x 1.0	16	17	M4, 5
		12	10-60	7	12 x 1.0	18	19	M6
LLVBM		16	15-70	9	16 x 1.5	20	22	M8
		20	15-80	13	20 x 1.5	24	27	M10, 12
		24	20-80	17	24 x 1.5	28	32	M16
		30	25-80	23	30 x 1.5	30	36	M20

**Lock Nuts**

Type	Material	Surface Treatment
LVN	1045 Carbon Steel	Black Oxide
LVNM	Carbon Steel	Electroless Nickel Plating
LVNS	304 Stainless Steel	—

RoHS10

**Part Number Example** Part Number  
LVN20

Part Number	Type	M (Fine Thread)	M x Pitch (Fine)	T	B
		8	8 x 0.75	4	13
		10	10 x 1.0	4	17
		12	12 x 1.0	5	19
LVN		16	16 x 1.5	5	22
LVNM		20	20 x 1.5	5	27
LVNS		24	24 x 1.5	8	32
		30	30 x 1.5	8	36