

STAINLESS STEEL JACKS ORDERING INFORMATION

Instructions: Select a model number from this chart.

2-Ton	2-Ton Reverse Base	5-Ton	10-Ton	15-Ton	20-Ton	25-Ton
SWJ62 SWJ122 SWJ242	RSWJ62 RSWJ122 RSWJ242	SWJ65 SWJ125 SWJ245	SWJ810 SWJ2410	SWJ815 SWJ2415	SWJ820 SWJ2420	SWJ1125 SWJ3225
DSWJ62* DSWJ122* DSWJ242*	DRSWJ62* DRSWJ122* DRSWJ242*	DSWJ65* DSWJ125* DSWJ245*	DSWJ810* DSWJ2410*	DSWJ815* DSWJ2415*	DSWJ820* DSWJ2420*	DSWJ1125* DSWJ3225*

Important Note: *Not self-locking, may lower under load. Brake motors or external locking systems are recommended.


D: Double Lead Screw.

R: Reverse Base Jack (only available on 2-ton jacks).

(For 25:1 ratio contact Joyce.)

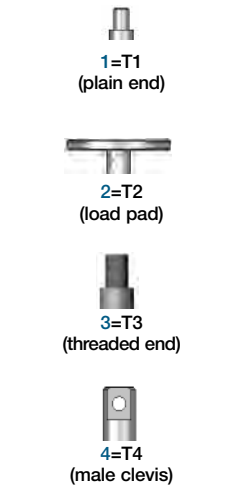
Sample Part Number: RSWJ62U2S-6.00-STDX-STDX-B

Jack Configuration



U=Upright I=Inverted


End Conditions



1=T1 (plain end)
2=T2 (load pad)
3=T3 (threaded end)
4=T4 (male clevis)

Left Side Shaft Code


(see below)



XXXX=Remove
STDX=Standard
CUST=Custom
For optional shaft codes, see page 61.

Right Side Shaft Code

(see below)



XXXX=Remove
STDX=Standard
CUST=Custom
For optional shaft codes, see page 61.

Additional Options*


X=Standard Jack, no additional options
S=Additional Specification Required (comment as necessary)
Anti-Backlash p. 181
A=Split Nut
A90=A90 Design
A95=A95 Design
Protective Boots pp. 170-173
B=Protective Boot
D=Dual Protective Boot
Finishes p. 182
F2=Epoxy Paint
F3=Outdoor Paint Process
Motor Options
M1=Less Motor
M2=Brake Motor
M3=Single Phase Motor (120VAC)
M4=50Hz Motor
M5=Special Motor
Grease/Seals
H1=High Temperature Operation
H2=Food Grade
Screw Stops
ST0=Extending
ST1=Retracting
ST2=Both

* Specify as many options as needed


Stainless Steel Screw Jack Rise

Rise is travel expressed in inches and not the actual screw length.


Jack Designs




S=Translating




K=Keyed for Non Rotation



N=Traveling Nut



D=Double Clevis*



A=KFTN Trunnion*
T=Trunnion*

*Contact Joyce with your requirements.

STAINLESS STEEL JACKS SHAFT CODES

Instructions: Select the appropriate shaft codes for both right and left hand shafts. One shaft code must be specified for each side of the jack.

Screw Stops (p. 10) and Boots (p. 170-173)


Stainless steel screw stops are optional on stainless steel jacks. When specified, the closed height of the jack and the protection tube length may be increased.

When boots are added to stainless steel jacks, the closed height of the jack may be increased.

Mechanical Counters (p.180)


CNT0=0.001" Increments

Note: Contact Joyce for availability and options.



Hand Wheels (p. 180)


HW04=4" dia
 HW06=6" dia
 HW08=8" dia
 HW10=10" dia
 HW12=12" dia



Recommended for self-locking jacks only.


Geared Potentiometers (p. 175)

POTA=0-10V
 POTB=4-20mA
 POTC=0-10V w/2 switches
 POTD=4-20mA w/2 switches
 IP65 rated enclosures



Encoders (pp. 176-177)

ENCA=Absolute Encoder 0-10 VDC, programmable
 ENCB=Absolute Encoder 4-20mA, programmable
 ENCC=Absolute Encoder CAN Open
 ENCD=Absolute Encoder SSI
 ENCS=Stainless Steel Incremental Encoder 1024 PPR
 ENCX=Incremental Encoder 200 PPR
 ENCY=Incremental Encoder 1024 PPR



Motors for Systems and Direct Drives (pp. 178-179)

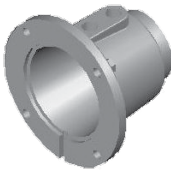
- All standard motors are 3-phase, 208-230/460 VAC or 230/460 VAC. Other motor options are available. Specify the appropriate motor size from the chart on the right.
- Refer to the "Additional Options" chart on the preceding page as needed.
- Brake motors (M2) are recommended for jacks that are not self locking and jacks with double lead screws.
- If the motor frequency will be varied to provide a "soft" start, an inverter duty motor may be required.

Motors

Size	Code
1/4 HP	K
1/3 HP	A
1/2 HP	B
3/4 HP	C
1 HP	D
1-1/2 HP	E
2 HP	F
3 HP	L
5 HP	G
7-1/2 HP	H
10 HP	I
15 HP	J

Motor Mounts (pp. 178-179)

Ordering Example: **MMA A**



MMA=56C
 MMB=140TC
 MMC=180TC
 MMD=210TC

Motor code from chart at left
 For servo motor mounts see p. 178
 Standard motor adapters are aluminum.

Mechanical Limit Switches (p. 174)

Ordering Example: **LA13**

Models		Number of DPDT Switches (see p. 174)	Available Positions							
Model	Code		1	2*	3	4	5	6*	7	8
LS7-402	LI		NOTE: Will always be 0 for LS7 models							
LS8-402	LA									
LS8-404	LB									

* 2, 5, 10, 15, and 20 ton stainless steel jacks are available with positions #1, #3, and #5.
 * 25 ton stainless steel jacks are available with positions # 1, #4, #7, and #8.
 *These positions are not standard. Contact Joyce with your requirements.
 Note: Limit Switch housings are not stainless steel. Choose STEEL IT® epoxy paint option instead.

STAINLESS STEEL JACKS SPECIFICATIONS

Model	Capacity	Screw Diameter (inches)	Thread Pitch/Lead	Worm Gear Ratio	Worm Shaft Turns for 1" Travel	Tare Torque (Inch Lbs.)	Starting Torque (Inch Lbs.)	Operating Torque (Inch Lbs.)	Efficiency Rating % Approx	Screw Torque (Inch Lbs.)	Basic Jack Weight (Lbs.)	Jack Weight per Inch Travel (Lbs.)
(R)SWJ62	2 ton	1	.250 pitch ACME 2C	6:1	24	6	.041W*	.028W* @ 500 RPM	24.2	.098W*	15	0.3
(R)SWJ122				12:1	48		.025W*	.015W* @ 500 RPM	22.0			
(R)SWJ242				24:1	96		.018W*	.009W* @ 500 RPM	18.3			
D(R)SWJ62			6:1	12	.057W*		.039W* @ 500 RPM	33.7				
D(R)SWJ122			12:1	24	.035W*		.022W* @ 500 RPM	30.5				
D(R)SWJ242			24:1	48	.025W*		.013W* @ 500 RPM	25.4				
SWJ65	5 ton	1 1/2	.375 pitch STUB ACME	6:1	16	15	.065W*	.044W* @ 300 RPM	23.0	.151W*	32	0.7
SWJ125				12:1	32		.041W*	.025W* @ 300 RPM	20.6			
SWJ245				24:1	64		.029W*	.015W* @ 300 RPM	16.7			
DSWJ65			6:1	12	.072W*		.050W* @ 300 RPM	26.8				
DSWJ125			12:1	24	.045W*		.028W* @ 300 RPM	23.9				
DSWJ245			24:1	48	.033W*		.017W* @ 300 RPM	19.6				
SWJ810	10 ton	2	.500 pitch ACME 2C	8:1	16	30	.061W*	.043W* @ 200 RPM	23.1	.195W*	43	1.3
SWJ2410				24:1	48		.030W*	.018W* @ 200 RPM	18.8			
DSWJ810			8:1	12	.070W*		.062W* @ 200 RPM	31.9	.228W*			
DSWJ2410			24:1	36	.035W*		.026W* @ 200 RPM	25.9				
SWJ815	15 ton	2 1/4	.500 pitch ACME 2C	8:1	16	45	.069W*	.047W* @ 200 RPM	21.1	.210W*	59	1.4
SWJ2415				24:1	48		.036W*	.020W* @ 200 RPM	16.6			
DSWJ815			8:1	12	.079W*		.058W* @ 200 RPM	34.4	.244W*			
DSWJ2415			24:1	36	.041W*		.025W* @ 200 RPM	27				
SWJ820	20 ton	2 1/2	.500 pitch ACME 2C	8:1	16	60	.075W*	.051W* @ 200 RPM	19.6	.227W*	77	1.9
SWJ2420				24:1	48		.039W*	.022W* @ 200 RPM	15.4			
DSWJ820			8:1	10.67	.088W*		.061W* @ 200 RPM	24.5	.272W*			
DSWJ2420			24:1	32	.046W*		.026W* @ 200 RPM	19.3				
SWJ1125	25 ton	3 3/8	.666 pitch STUB ACME	11:1	16	75	.088W*	.055W* @ 200 RPM	18.3	.313W*	164	3.1
SWJ3225				32:1	48		.053W*	.025W* @ 200 RPM	13.5			
DSWJ1125			11:1	9.5	.106W*		.067W* @ 200 RPM	25.1	.384W*			
DSWJ3225			32:1	28.5	.063W*		.030W* @ 200 RPM	18.6				

Important Note: Series DSWJ models may lower under load. Brake motors or external locking systems are recommended.

(R): Reverse Base Jack.

*W: Load in pounds.

Tare Torque: Initial torque to overcome seal and normal assembly drag. This value must be added to starting torque or operating torque values.

Starting Torque: Torque value required to start moving the rated load (dissipates to operating torque values once the load begins moving).

Operating Torque: Torque required to continuously raise a given load at the input RPM listed.

Note: If your actual input RPM is 20% higher or lower than the listed RPM, please refer to JAX® Online to determine actual torque values at your RPM.

Screw Torque: Torque required to resist screw rotation (Translating Design Jacks) and traveling nut rotation (Keyed for Traveling Nut Design Jacks).

Lead: The distance traveled axially in one rotation of the lifting screw.

Pitch: The distance from a point on a screw thread to a corresponding point on the next thread, measured axially.

Note: This chart is provided for reference only. For specific information such as column loading, allowable continuous travel and other performance factors please refer to JAX® Online software or contact Joyce.