

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*		
D: Double Lead Screw. R: Reverse Base Jack (only av (For 25:1 ratio, contact Joyce/	Dayton.)		J62U2S-6	5.00-STD	X-STDX-E	3		
Jack Configuration U=Upright I=Invo End Conditions			Left Side Shaft Co (see below	de SI	ight Side haft Code see below)	Additional Options X=Standard Jack, no additional options S=Additional Specification Required (comment as necessar Anti-Backlash p. 180		
(plain end) 2=T2 (load pad)			STDX=	Remove Standard	XXXX=Remove STDX=Standard	Anti-Backash p. 160 A=Split Nut A90=A90 Design A95=A95 Design Protective Boots pp. 170-172 B=Protective Boot D=Dual Protective Boot		
3=T3 (threaded end) 4=T4 (male clevis)				age 61.	optional shaft codes, see page 61.	Finishes p. 179 F2=Epoxy Paint F3=Outdoor Paint Process Motor Options M1=Less Motor M2=Brake Motor M3=Single Phase		
Jack Designs						Motor (120VAC) M4=50Hz Motor Grease/Seals H1=High Temperature Operation H2=Food Grade Screw Stops ST0=Extending		
S=Translating	K=Keyed for Rotation		ling Nut D=Do	uble Clevis*	A=KFTN Trunnion* T=Trunnion*	ST1=Retracting ST2=Both • Specify as many options as needed		

^{*}Contact Joyce/Dayton 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 (pp. 170-172)

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.177)

CNT0=0.001" Increments Note: Contact Joyce/Dayton for availability and options.



Hand Wheels (p. 177)

HW04=4" dia HW06=6" dia



HW08=8" dia HW10=10" dia Recommended

for self-locking HW12=12" dia jacks only.

Geared Potentiometers (p. 176)

POTA=0-10V (IP65)

POTB=4-20MA (IP65)

POTC=0-10V w/2 switches*

POTD=4-20MA w/2 switches*

*Optional IP65 rating available.



ENCX=Encoder (p. 178)

ELS2=2 Position Electronic Switch

ELS4=4 Position Electronic Switch

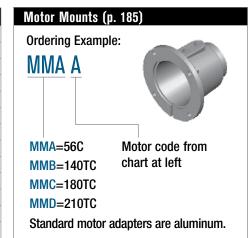
ELS6=6 Position Electronic Switch



Motors for Systems and Direct Drives (p. 185)

- 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.

Code				
K				
Α				
В				
С				
D				
Е				
F				
L				
G				
Н				
I				
J				



Mechanical Limit Switches (pp. 174-175)

Ordering Example: LA13

Models								
Model	Code							
LS7-402	LI							
LS8-402	LA							
LS8-404	LB							
LS9-502	LC							
LS9-503	LD							
LS9-504	LE							
LS9-505	LF							
LS9-506	LG							
LS9-507	LH							

Number of **DPDT Switches** (see p. 175)

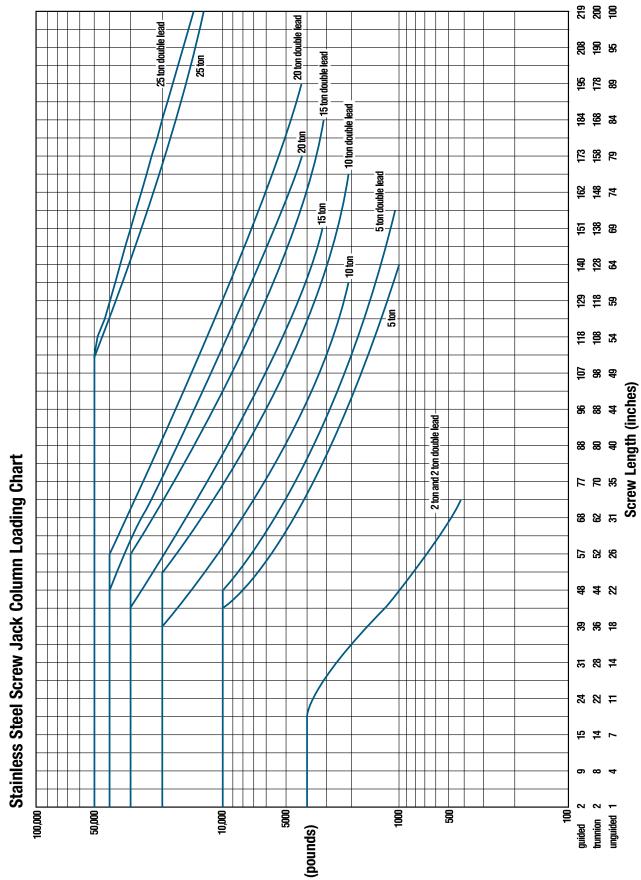
NOTE: Will always be 0 for LS7 models

	e Positions 1	2*	3	4	5	6*	7	8
Left Side Shaft Options								
Right Side Shaft Options						4		

- 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/Dayton with your requirements. Note: Limit switch housings are not stainless steel. Choose Steel It epoxy paint option instead.

STAINLESS STEEL JACKS COLUMN LOADING



This chart includes a 2:1 Factor-of-Safety based on the Euler-Johnson equation for column loading (Oberg, Erik et al: Machinery's Handbook, 24th Edition. c. 1992 Industrial Press Inc.)
The horizontal portion of each line represents the jack's maximum dynamic capacity. Under static conditions, these lines can be exceeded. Please contact factory for assistance.

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		1		6:1	24		.041W*	.028W* @ 500 RPM	24.2	.098W* .139W*	- 15	0.3
(R)SWJ122			.250 pitch ACME 2C	12:1	48		.025W*	.015W* @ 500 RPM	22.0			
(R)SWJ242	2 ton			24:1	96	6	.018W*	.009W* @ 500 RPM	18.3			
D(R)SWJ62	Z LUII		050 1: 1	6:1	12	0	.057W*	.039W* @ 500 RPM	33.7			
D(R)SWJ122			.250 pitch .500 lead ACME 2C	12:1	24		.035W*	.022W* @ 500 RPM	30.5			
D(R)SWJ242			AGIVIE ZU	24:1	48		.025W*	.013W* @ 500 RPM	25.4			
SWJ65				6:1	16	16 32 64 12 24 48	.065W*	.044W* @ 300 RPM	23.0	.151W*	32	0.7
SWJ125			.375 pitch STUB ACME	12:1	32		.041W*	.025W* @ 300 RPM	20.6			
SWJ245	<u>.</u> .	4.40		24:1	64		.029W*	.015W* @ 300 RPM	16.7			
DSWJ65	5 ton	1 1/2		6:1	12		.072W*	.050W* @ 300 RPM	26.8			
DSWJ125			.250 pitch .500 lead STUB ACME	12:1	24		.045W*	.028W* @ 300 RPM	23.9			
DSWJ245			STUD AGME	24:1	48		.033W*	.017W* @ 300 RPM	19.6			
SWJ810		2	.500 pitch	8:1	16	30	.061W*	.043W* @ 200 RPM	23.1	.195W*	- 43	1.3
SWJ2410	40.		ACMÉ 2C	24:1	48		.030W*	.018W* @ 200 RPM	18.8			
DSWJ810	10 ton		.333 pitch .667 lead ACME 2C	8:1	12		.070W*	.062W* @ 200 RPM	31.9			
DSWJ2410				24:1	36		.035W*	.026W* @ 200 RPM	25.9			
SWJ815		2 1/4	.500 pitch ACME 2C	8:1	16		.069W*	.047W* @ 200 RPM	21.1	.210W*	50	1.4
SWJ2415	15 4			24:1	48		.036W*	.020W* @ 200 RPM	16.6			
DSWJ815	15 ton		2 1/4	.333 pitch	8:1	12	45	.079W*	.058W* @ 200 RPM	34.4	04414	59
DSWJ2415			.667 lead ACME 2C	24:1	36		.041W*	.025W* @ 200 RPM	27	.244W*		
SWJ820		n 2 1/2	.500 pitch	8:1	16		.075W*	.051W* @ 200 RPM	19.6	.227W* 272W*	- 77	1.9
SWJ2420	00 ton		ACME 2C	24:1	48		.039W*	.022W* @ 200 RPM	15.4			
DSWJ820	20 ton		.375 pitch	8:1	10.67	60	.088W*	.061W* @ 200 RPM	24.5			
DSWJ2420			.750 lead ACME 2C	24:1	32		.046W*	.026W* @ 200 RPM	19.3			
SWJ1125		5	.666 pitch STUB ACME	11:1	16	75	.088W*	.055W* @ 200 RPM	18.3	.313W*	- 164	3.1
SWJ3225	05 4			32:1	48		.053W*	.025W* @ 200 RPM	13.5			
DSWJ1125	25 ton	3 3/8	.5625 pitch	11:1	9.5	75	.106W*	.067W* @ 200 RPM	25.1			
DSWJ3225		1.125 lead ACME 2C	32:1	28.5		.063W*	.030W* @ 200 RPM	18.6	.384W*			

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 a given 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 our JAX® program 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.

