

MACHINE SCREW ComDRIVES® ORDERING INFORMATION

Instructions: Select a model number from this chart.

2-Ton	3-Ton	5-Ton	10-Ton	15-Ton	20-Ton	25-Ton	30-Ton
CD62 CD122 CD242	CD63 CD123 CD243	CD65 CD125 CD245	CD810 CD2410	CD815 CD2415	CD820 CD2420	CD1125 CD3225	CD1130 CD3230
DCD62* DCD122* DCD242*	DCD63* DCD123* DCD243*	DCD65* DCD125* DCD245*	DCD810* DCD2410*	DCD815* DCD2415*	DCD820* DCD2420*	DCD1125* DCD3225*	DCD1130* DCD3230*

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

DCD: Double lead screw.

(For 25:1 ratio contact Joyce.)

Sample Part Number: CD65U2S-18.50-P1AB-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 47.

Right Side Shaft Code
(see below)

XXXX=Remove
STDX=Standard
CUST=Custom

For optional shaft codes, see page 47.

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
F1=Do Not Paint
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
Extending and retracting stops are standard on ComDRIVES.
* Specify as many options as needed

ComDRIVE® Rise

Rise is travel expressed in inches and not the actual screw length. When companion jacks are ordered with the ComDRIVE®, their screws are lengthened to match the ComDRIVE®.

Jack Designs

S=Translating K=Keyed for Non Rotation N=Traveling Nut D=Double Clevis A=KFTN Trunnion*
T=Trunnion*

*Standard trunnion mounts available on 2-ton through 20-ton jacks. (See page 183)

MACHINE SCREW ComDRIVES[®] 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 ComDRIVE[®].

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

Extending and retracting screw stops are standard on ComDRIVES. When boots are added to ComDRIVES, the closed height of the unit may be increased.

Mechanical Counters (p. 180)

CNT0=0.001" Increments

Note: Contact Joyce for availability and options.



G 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



ComDRIVE Reducers (pp. 49-57)

Ordering Example: **P2AC**

Motor code from chart at right

Mounting Positions

Ratio

Code	P1	P2	P3	P4	Ratio
Left Side Shaft Options					5:1 Code A
					7.5:1 Code B
					10:1 Code C
Right Side Shaft Options					15:1 Code D
					Special Ratio Code X

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

All standard motors are 3-phase, 208-230/460 VAC or 230/460 VAC. Other motor options are available including international voltages, and single phase AC. Specify the appropriate motor size from the chart above. Refer to the "Additional Options" chart on the preceding page as needed. Brake motors are required for ball screw ComDRIVES[®]. Contact Joyce for options that are not listed.

Mechanical Limit Switches (p. 174)

Ordering Example: **LA13**

Models	
Model	Code
LS7-402	LI
LS8-402	LA
LS8-404	LB

Number of DPDT Switches (see p. 174)

NOTE:
Will always be 0 for LS7 models

Available Positions

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

- 2, 3, 5, 10, 15, and 20 ton ComDRIVES are available with positions #1, #3, and #5.
- 25 and 30 ton ComDRIVES are available with positions #1, #4, #7 and #8.
- * These positions are not standard. Contact Joyce with your requirements.

MACHINE SCREW ComDRIVES[®] SPECIFICATIONS

2 Ton Model Number		CD62			CD122		CD242			DCD62			DCD122		DCD242		
Reducer Ratio		5	7 1/2	10	5	7 1/2	5	7 1/2	10	5	7 1/2	10	7 1/2	5	7 1/2	10	
Travel Speed IPM		13.88	9.50	7.04	6.94	4.75	3.47	2.38	1.76	27.75	19.00	14.08	9.50	6.94	4.75	3.52	
Lifting Capacity, Lbs.	1/3 HP	1,865	2,650	3,500	3,350	4,000	4,000	4,000	4,000	1,300	1,850	2,450	3,300	3,830	4,000	4,000	
	1/2 HP	2,875	4,000	4,000	4,000					2,000	2,825	3,720	4,000	4,000			
	3/4 HP	4,000								3,060	4,000						
3 Ton Model Number		CD63			CD123		CD243			DCD63			DCD123		DCD243		
Reducer Ratio		5	7 1/2	10	5	7 1/2	5	7 1/2	10	5	7 1/2	10	7 1/2	5	7 1/2	10	
Travel Speed IPM		13.88	9.50	7.04	6.94	4.75	3.47	2.38	1.76	27.75	19.00	14.08	9.50	6.94	4.75	3.52	
Lifting Capacity, Lbs.	1/3 HP	1,910	2,700	3,555	3,425	4,790	5,610	6,000	6,000	1,335	1,890	2,485	3,350	3,925	5,415	6,000	
	1/2 HP	2,920	4,095	5,380	5,235	6,000	6,000			2,045	2,865	3,765	5,085	6,000	6,000		
	3/4 HP	4,430	6,000		6,000					3,100	4,340		6,000				
5 Ton Model Number		CD65			CD125		CD245			DCD65			DCD125		DCD245		
Reducer Ratio		5			10		10			5			10		10		
Travel Speed IPM		20.81			10.56		5.28			27.75			14.08		7.04		
Lifting Capacity, Lbs.	1 HP	3,760			6,980		10,000			3,320			6,170		10,000		
	1 1/2 HP	5,755								5,085							
	2 HP	7,750								6,845							
10 Ton Model Number		CD810			CD2410			DCD810			DCD2410						
Reducer Ratio		5			10			5			10			5			
Travel Speed IPM		20.81			10.56			6.94			27.76			14.09			
Lifting Capacity, Lbs.	1 HP	3,680			7,070			9,000			3,150			6,045			
	1 1/2 HP	5,760						14,090			4,925			12,050			
	2 HP	7,840						19,165			6,700			16,390			
	3 HP	12,150			20,000			20,000			10,385			19,450			
	5 HP													20,000			
15 Ton Model Number		CD815			CD2415			DCD815			DCD2415						
Reducer Ratio		5			10			5			10			5			
Travel Speed IPM		20.81			10.56			6.94			27.76			14.09			
Lifting Capacity, Lbs.	1 HP	3,140			6,200			7,535			2,715			5,365			
	1 1/2 HP	5,035						12,085			4,350			10,450			
	2 HP	6,925						16,620			5,990			14,375			
	3 HP	10,850			20,425			26,040			9,380			17,665			
	5 HP	18,515						30,000			16,010			30,000			
20 Ton Model Number		CD820			CD2420			DCD820			DCD2420						
Reducer Ratio		5			10			5			10			5			
Travel Speed IPM		20.81			10.56			6.94			27.76			14.09			
Lifting Capacity, Lbs.	1 HP	2,715			5,570			6,520			2,265			4,645			
	1 1/2 HP	4,475						10,745			3,730			8,960			
	2 HP	6,235						14,965			5,195			12,475			
	3 HP	9,880			18,785			23,715			8,235			15,660			
	5 HP	17,000						40,000			14,175			34,020			
25 Ton Model Number		CD1125			CD3225			DCD1125			DCD3225						
Reducer Ratio		5			10			5			10			5			
Travel Speed IPM		20.79			10.55			6.93			35.12			17.82			
Lifting Capacity, Lbs.	3 HP	9,050			17,165			20,390			7,385			14,000			
	5 HP	15,700			29,420			35,390			12,815			24,010			
	7 1/2 HP	23,930			45,755			50,000			19,530			37,340			
	10 HP	32,625			50,000						26,625			50,000			
	15 HP	49,410									40,325						
30 Ton Model Number		CD1130			CD3230			DCD1130			DCD3230						
Reducer Ratio		5			10			5			10			5			
Travel Speed IPM		20.82			10.57			6.94			35.12			17.82			
Lifting Capacity, Lbs.	3 HP	9,435			17,540			21,260			7,535			14,000			
	5 HP	16,100			29,815			36,280			12,885			23,810			
	7 1/2 HP	24,335			46,170			54,840			19,430			36,870			
	10 HP	33,040			60,000			60,000			26,385			49,300			
	15 HP	49,845									39,800			60,000			

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