BALL SCREW ComDRIVEs® ORDERING INFORMATION

Instructions: Select a model number from this chart.

2-Ton Standard	5-Ton Standard	10-Ton Standard	10-Ton Heavy Duty	20-Ton Standard	30-Ton Standard
CDB62 CDB122 CDB242	CDB65 CDB125 CDB245	CDBL810 CDBL2410	CDB810 CDB2410	CDB820 CDB2420	CDB1130 CDB3230
2-Ton High Lead	**5-Ton High Lead**	**10-Ton Standard High Lead**	**10-Ton Heavy Duty High Lead**		
CDHB62 CDHB122 CDHB242	CDHB65 CDHB125 CDHB245	CDHBL810 CDHBL2410	CDHB810 CDHB2410		

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

H: High lead (2-ton, 5-ton and 10-ton only).

Sample Part Number: CDHB65U1N-18.50-STDX-P3AE-M2

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 105.

Right Side Shaft Code
(see below)

XXXX=Remove
STDX=Standard
CUST=Custom

For optional shaft codes, see page 105.

Additional Options*

X=Standard Jack, no additional options

S=Additional Specification Required (comment as necessary)

Protective Boots pp. 171-173
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 Stops are standard on ball screw ComDRIVEs

* Specify as many options as needed

Ball Screw ComDRIVE® 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*

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

**Keyed for non-rotation is not a standard option. Contact Joyce.

BALL 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. 171-173)

Extending screw stops are standard on ball screw ComDRIVEs and they are not adjustable.
When boots are added to ball screw ComDRIVEs, the closed height of the jack may be increased.

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. 107-117)

Ordering Example: P2AC — Motor code from chart at right

Mounting Positions

Code	P1	P2	P3	P4
Left Side Shaft Positions				
Right Side Shaft Positions				

Ratio

5:1 Code A
7.5:1 Code B
10:1 Code C
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

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, 5, 10, and 20-ton ball screw ComDRIVEs are available with positions #1, #3, and #5.
- 30-ton ball screw ComDRIVEs are available with positions #1, #4, #7 and #8.

* These positions are not standard. Contact Joyce with your requirements.

BALL SCREW ComDRIVEs® SPECIFICATIONS

2-Ton Model Number		CDB62			CDB122		CDB242			CDHB62			CDHB122	CDHB242		
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	55.50	38.00	28.16	19.00	13.88	9.50	7.04
Lifting Capacity, Lbs.	1/3 HP	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	1,025	1,455	1,925	2,595	3,015	4,000	4,000
	1/2 HP									1,580	2,220	2,925	3,955	4,000		
	3/4 HP									2,400	3,375		4,000			

5-Ton Model Number		CDB65		CDB125	CDB245	CDHB65		CDHB125	CDHB245
Reducer Ratio		5	10	10	10	5	10	10	10
Travel Speed IPM		26.29	13.34	6.67	3.34	55.50	28.16	14.08	7.04
Lifting Capacity, Lbs.	1 HP	6,770	10,000	10,000	10,000	3,200	5,950	10,000	10,000
	1 1/2 HP	10,000				4,900			
	2 HP					6,600			

10-Ton Model Number		CDBL810		CDBL2410		CDHBL810		CDHBL2410	
Reducer Ratio		5	10	5	10	5	10	5	10
Travel Speed IPM		19.72	10.00	6.57	3.34	41.63	21.13	13.88	7.04
Lifting Capacity, Lbs.	1 HP	8,555	16,425	20,000	20,000	4,050	7,780	9,910	18,445
	1 1/2 HP	13,390				6,340		15,500	
	2 HP	18,210				8,625		20,000	
	3 HP	20,000	20,000			13,370	20,000		
	5 HP					20,000			

10-Ton Model Number		CDB810		CDB2410		CDHB810		CDHB2410	
Reducer Ratio		5	10	5	10	5	10	5	10
Travel Speed IPM		20.81	10.56	6.94	3.52	41.63	21.13	13.88	7.04
Lifting Capacity, Lbs.	1 HP	8,100	15,560	19,820	20,000	4,050	7,780	9,910	18,445
	1 1/2 HP	12,685		20,000		6,340		15,500	
	2 HP	17,255				8,625		20,000	
	3 HP	20,000	20,000			13,370	20,000		
	5 HP					20,000			

20-Ton Model Number		CDB820		CDB2420	
Reducer Ratio		5	10	5	10
Travel Speed IPM		20.81	10.56	6.94	3.52
Lifting Capacity, Lbs.	1 HP	6,965	14,285	16,720	33,120
	1 1/2 HP	11,480		27,550	
	2 HP	15,980		38,360	
	3 HP	25,330	40,000	40,000	40,000
	5 HP	40,000			

30-Ton Model Number		CDB1130		CDB3230	
Reducer Ratio		5	10	5	10
Travel Speed IPM		20.60	10.46	6.87	3.49
Lifting Capacity, Lbs.	3 HP	24,295	46,080	54,745	60,000
	5 HP	42,165	60,000	60,000	
	7 1/2 HP	60,000			

Important Note: Ball Screw ComDRIVEs are not self-locking. Brake motors or external locking systems are required.