

# MACHINE SCREW ComDRIVEs®



Joyce machine screw ComDRIVEs® combine a machine screw jack, motor and gear reducer into a single compact unit. ComDRIVEs are available in 2-ton through 30-ton capacities. They provide travel speeds up to 35.1 inches per minute. ComDRIVEs with single lead screws (CD) are self-locking; those with double lead screws (DCD) may require a brake motor or external locking device to hold position.

Four standard end conditions are available and ComDRIVEs can be fitted with protective boots. Limit switches, anti-backlash devices, and other options are also available.

#### ComDRIVE Benefits:

- Can power an entire jacking system.
- Reduces the number of components that must be specified.
- Simplifies design.
- Reduces installation costs with only a single plate needed to mount the jack body.
- Reduces the number of couplings and shafts required in multi-jack systems.
- Standard 230/460 volt, 3-phase, 60 hertz motor included.

ComDRIVEs can be specified without the motor. The reducer flange accepts standard NEMA motor frame sizes.

Joyce/Dayton can customize ComDRIVEs to meet your specifications. Ask about larger size ComDRIVEs.

#### Joyce/Dayton offers Machine Screw ComDRIVEs in several designs including:

- Translating
- Keyed for non-rotation
- Keyed for traveling nut (KFTN)
- Double clevis
- Trunnion mount

A guide for ordering is on pages 46 and 47.

# MACHINE SCREW ComDRIVE<sup>®</sup> ORDERING INFORMATION

**Instructions:** Select a model number from this chart.

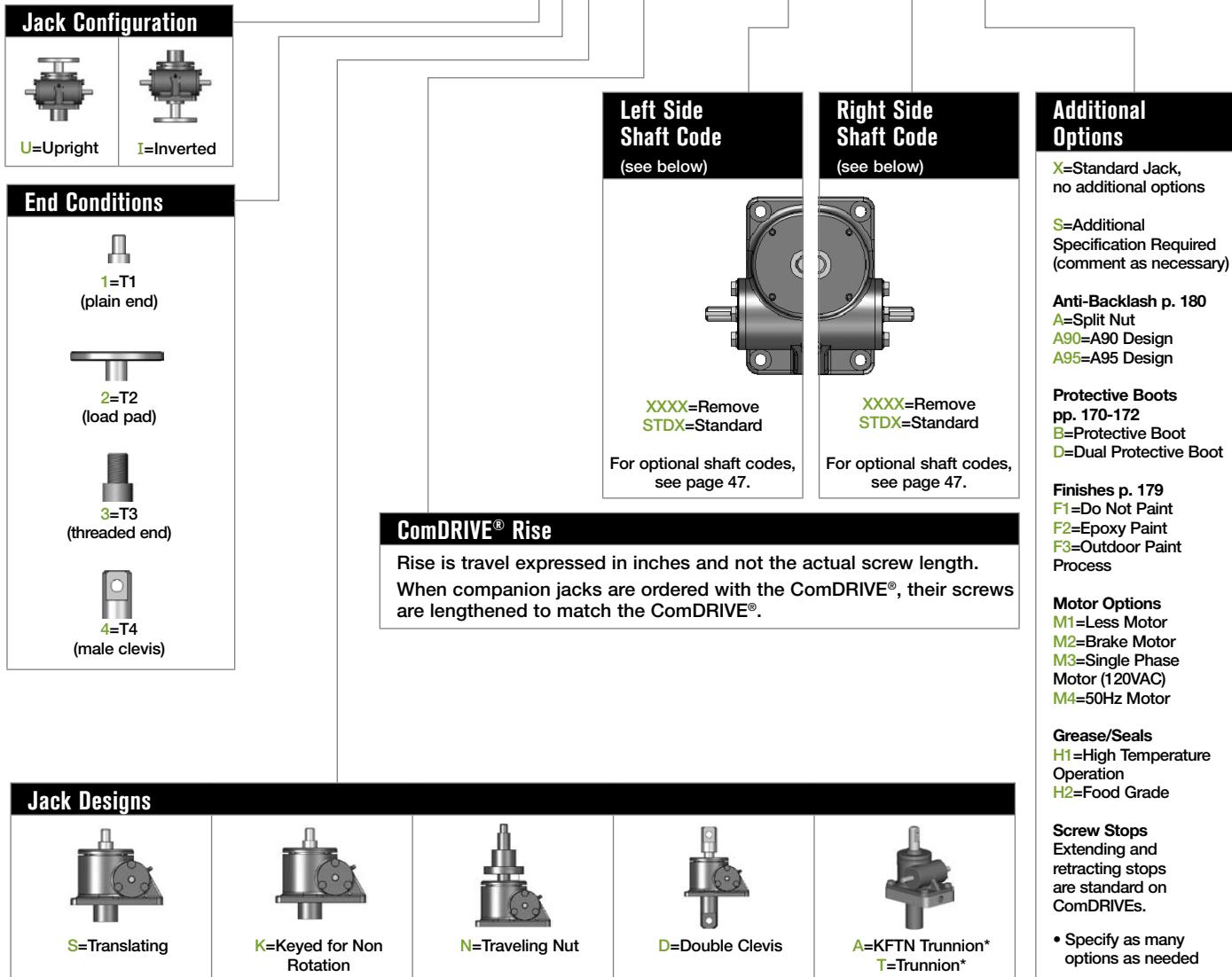
2-Ton	3-Ton	5-Ton	10-Ton	15-Ton	20-Ton	25-Ton	30-Ton
CD62 CD122 CD242	CD63 CD123 CD243	CD65 CD125 CD245	CD810 CD2410	CD815 CD2415	CD820 CD2420	CD1125 CD3225	CD1130 CD3230
DCD62* DCD122* DCD242*	DCD63* DCD123* DCD243*	DCD65* DCD125* DCD245*	DCD810* DCD2410*	DCD815* DCD2415*	DCD820* DCD2420*	DCD1125* DCD3225*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

**Sample Part Number: CD65U2S-18.50-P1AB-STDX-B**



\*Standard trunnion mounts available on 2-ton through 20-ton jacks. (See page 173)

# MACHINE SCREW ComDRIVE<sup>®</sup> 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<sup>®</sup>.

## Screw Stops (p. 10) and Boots (pp. 170-172)

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. 177)

CNT0=0.001" Increments

Note: Contact Joyce/Dayton for availability and options.



## 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



## Encoders and Electronic Limit Switches

ENCX=Encoder (p. 178)

ELS2=2 Position Electronic Switch

ELS4=4 Position Electronic Switch

ELS6=6 Position Electronic Switch



## ComDRIVE Reducers (pp. 49-57)

### Ordering Example: P2AC

Motor code from chart at right

#### Mounting Positions

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

#### 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<sup>®</sup>. Contact Joyce/Dayton for other options.

## 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

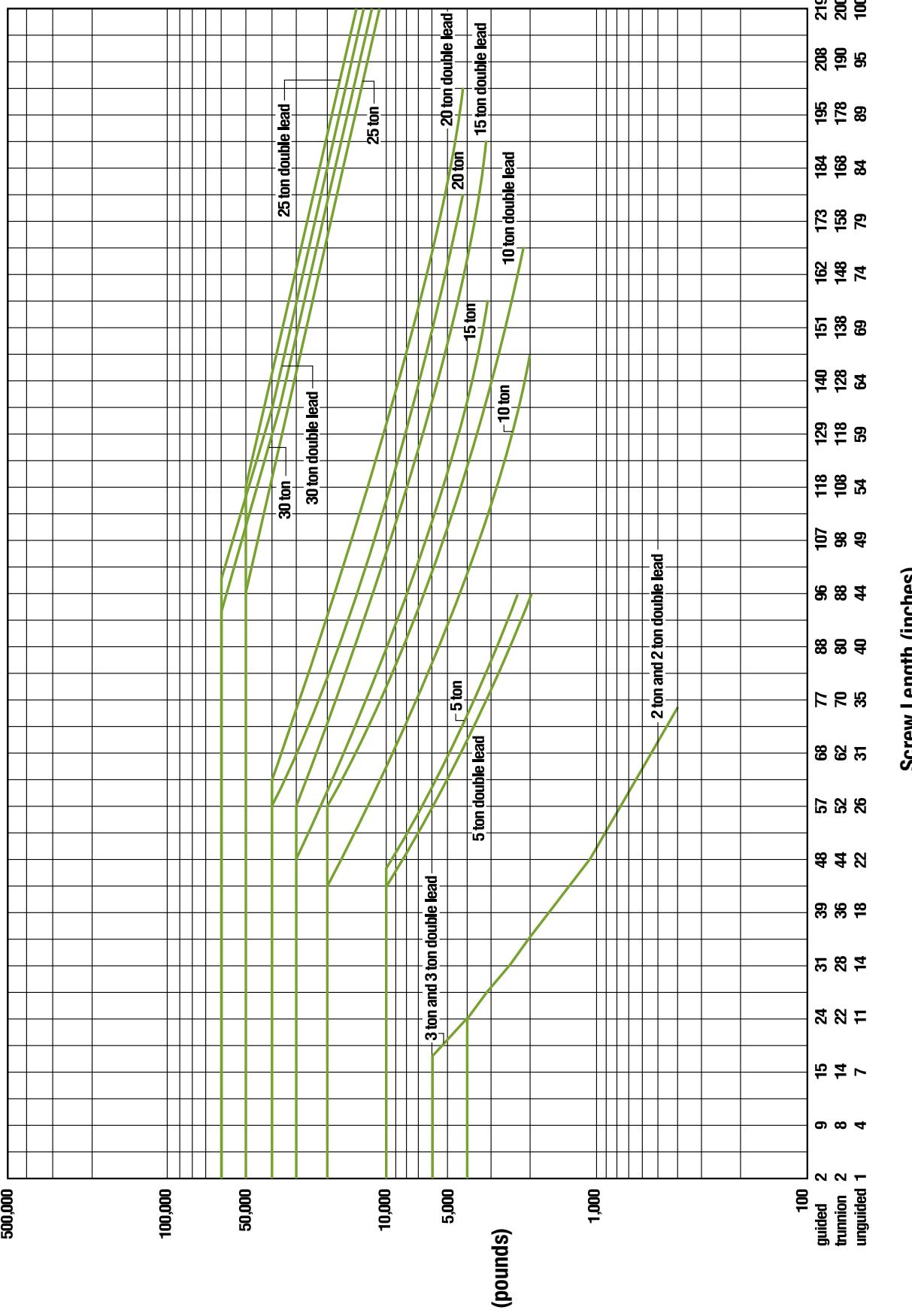
	1	2*	3	4	5	6*	7	8
Left Side Shaft Options								
Right Side Shaft Options								

- 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/Dayton with your requirements.

# MACHINE SCREW ComDRIVE<sup>®</sup> COLUMN LOADING

**Machine Screw ComDRIVE<sup>®</sup> Column Loading Chart**



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.

# MACHINE SCREW ComDRIVE<sup>®</sup> 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	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	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	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	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		10	5		10		10		10	5		10
Travel Speed IPM	20.81		10.56			5.28		2.64	27.75		14.08		7.04		3.52			
Lifting Capacity, Lbs.	1 HP	3,760		6,980		10,000		10,000	3,320		6,170		10,000		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		10		5		10	5		10
Travel Speed IPM	20.81		10.56			6.94		3.52	27.76		14.09		9.25		4.69			
Lifting Capacity, Lbs.	1 HP	3,680		7,070		9,000		16,760	3,150		6,045		7,700		14,330			
	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		20,000	10,385		19,450		20,000		20,000			
	5 HP	20,000							17,580									
15 Ton Model Number	CD815			CD2415			DCD815			DCD2415								
Reducer Ratio	5		10			5		10	5		10		5		10	5		10
Travel Speed IPM	20.81		10.56			6.94		3.52	27.76		14.09		9.25		4.69			
Lifting Capacity, Lbs.	1 HP	3,140		6,200		7,535		14,385	2,715		5,365		6,515		12,440			
	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		30,000	9,380		17,665		22,520		30,000			
	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		10		5		10	5		10
Travel Speed IPM	20.81		10.56			6.94		3.52	27.76		14.09		9.25		4.69			
Lifting Capacity, Lbs.	1 HP	2,715		5,570		6,520		12,920	2,265		4,645		5,435		10,765			
	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		40,000	8,235		15,660		19,770		36,300			
	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		10		5		10	5		10
Travel Speed IPM	20.79		10.55			6.93		3.52	35.12		17.82		11.71		5.94			
Lifting Capacity, Lbs.	3 HP	9,050		17,165		20,390		36,800	7,385		14,000		16,640		30,040			
	5 HP	15,700		29,420		35,390		50,000	12,815		24,010		28,885		50,000			
	7 1/2 HP	23,930		45,755		50,000			19,530		37,340		44,010					
	10 HP	32,625		50,000					26,625		50,000		50,000					
	15 HP	49,410							40,325									
30 Ton Model Number	CD1130			CD3230			DCD1130			DCD3230								
Reducer Ratio	5		10			5		10	5		10		5		10	5		10
Travel Speed IPM	20.82		10.57			6.94		3.52	35.12		17.82		11.71		5.94			
Lifting Capacity, Lbs.	3 HP	9,435		17,540		21,260		37,620	7,535		14,000		16,975		30,040			
	5 HP	16,100		29,815		36,280		60,000	12,885		23,810		28,970		51,060			
	7 1/2 HP	24,335		46,170		54,840			19,430		36,870		43,790		60,000			
	10 HP	33,040		60,000		60,000			26,385		49,300		59,460					
	15 HP	49,845							39,800				60,000					

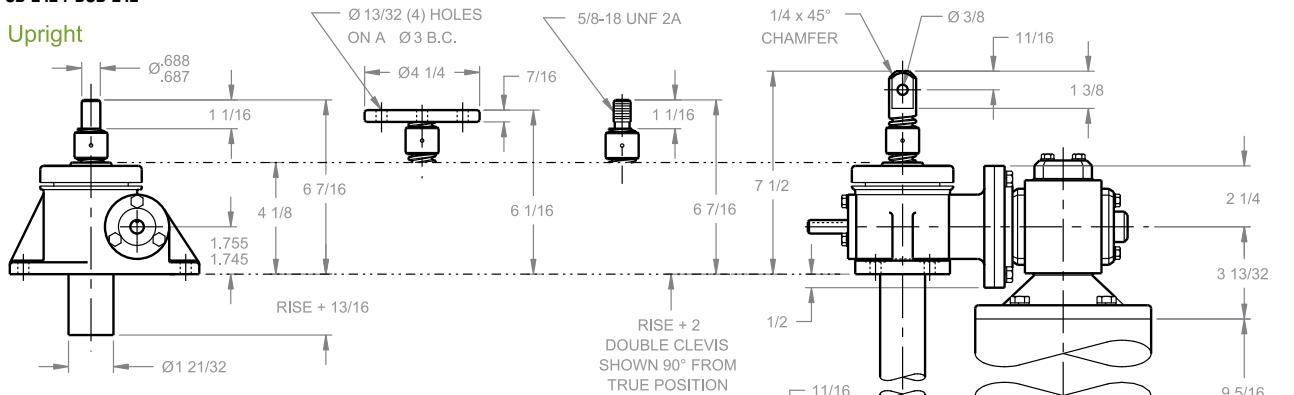
**Important Note:** DCD models may lower under load. Brake motors or external locking systems are recommended.

# MACHINE SCREW ComDRIVEs®

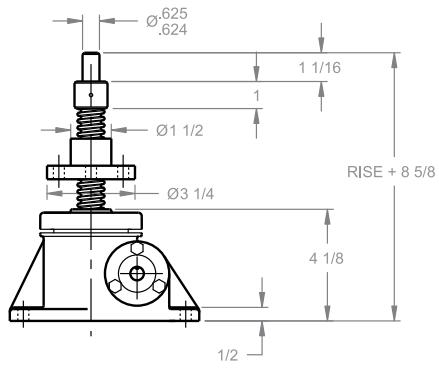
## 2 TON - 1" SCREW

CD 62 / DCD 62  
CD 122 / DCD 122  
CD 242 / DCD 242

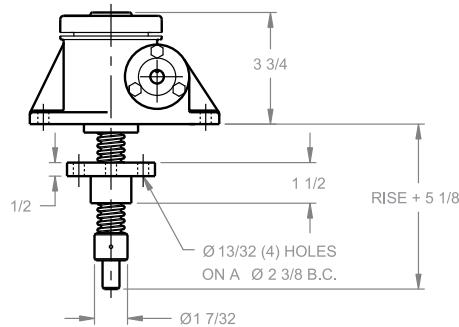
### Upright



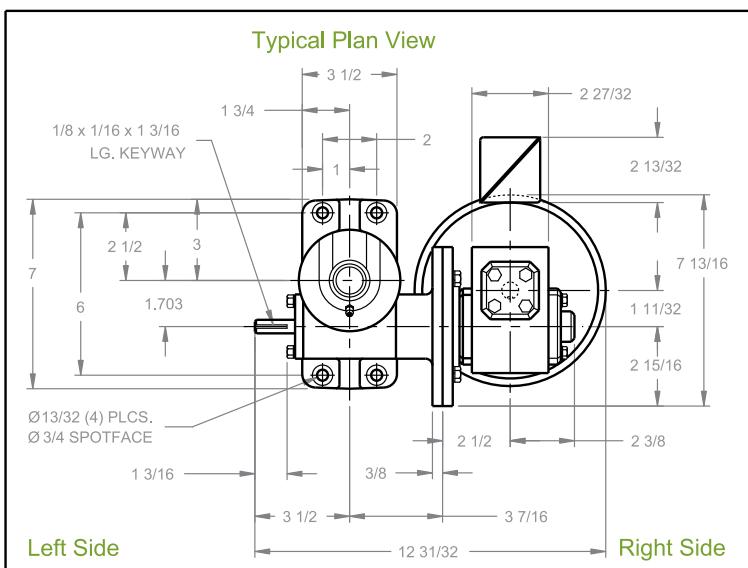
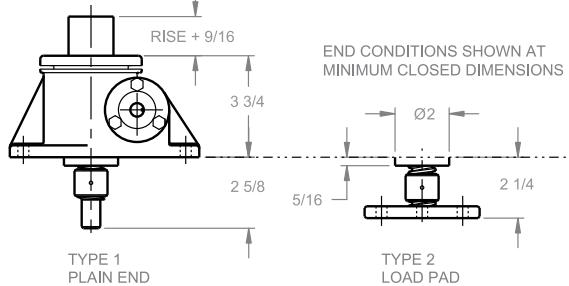
### Upright traveling nut



### Inverted traveling nut

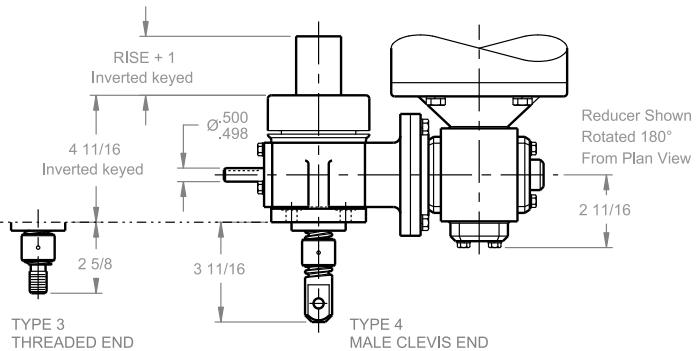


### Inverted



Left Side

Right Side



NOTE: FOR LIFTING CAPACITIES SEE PAGE 49

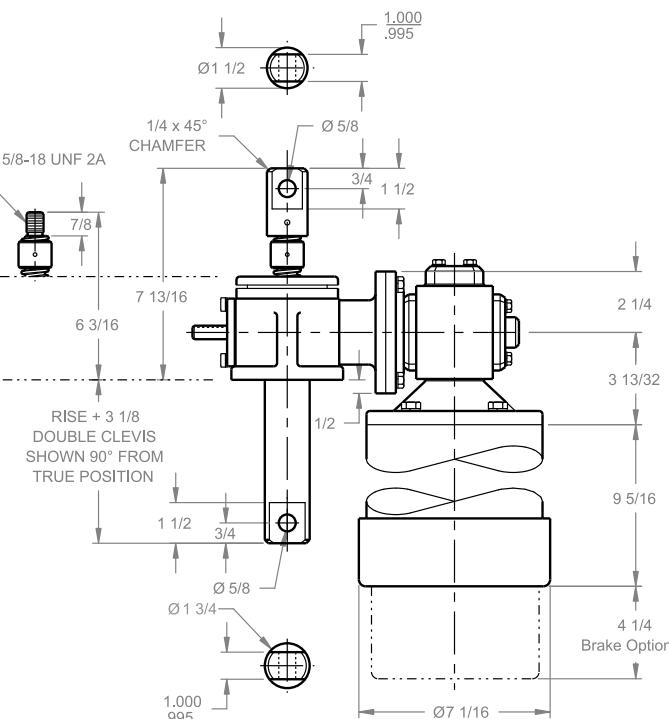
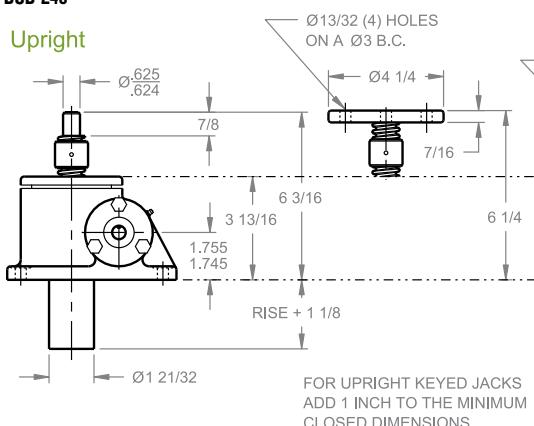
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# MACHINE SCREW ComDRIVEs®

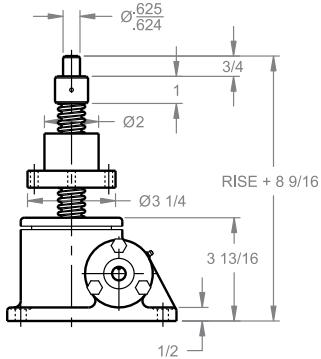
## 3 TON - 1" SCREW

CD 63 / DCD 63  
CD 123 / DCD 123  
CD 243 / DCD 243

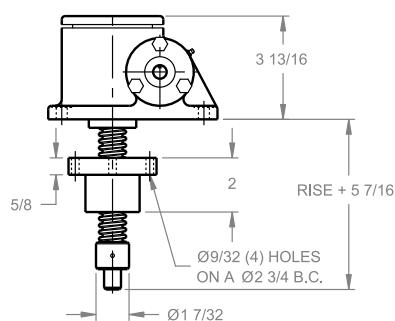
### Upright



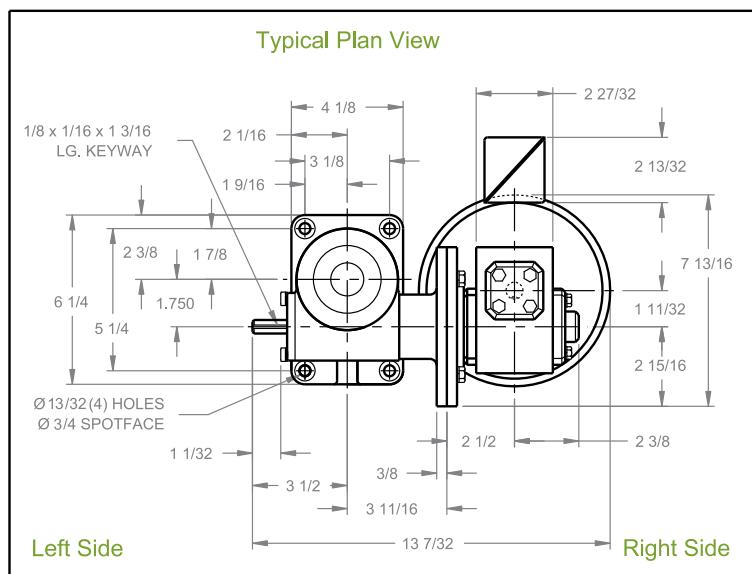
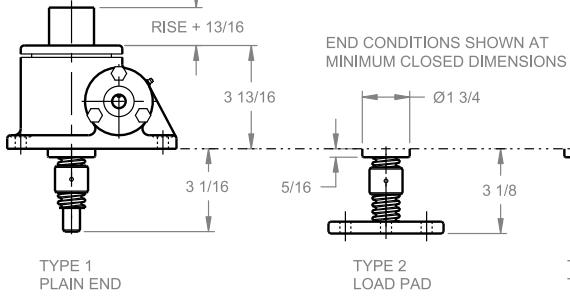
### Upright traveling nut



### Inverted traveling nut

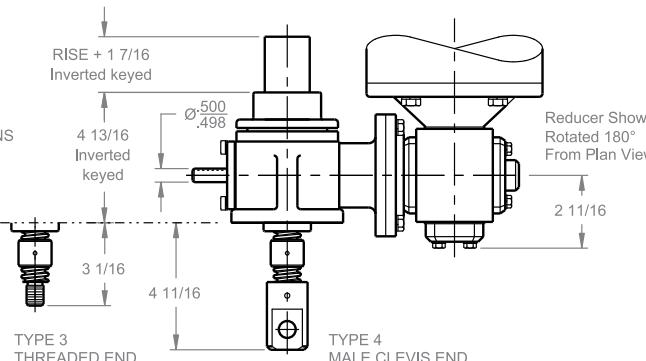


### Inverted



Left Side

Right Side



NOTE: FOR LIFTING CAPACITIES SEE PAGE 49

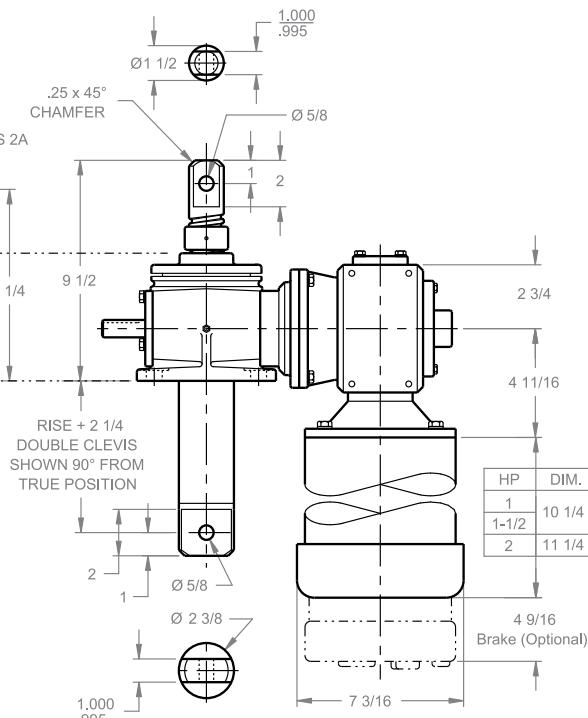
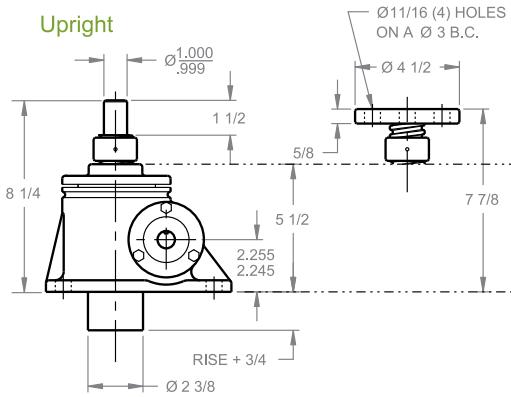
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# MACHINE SCREW ComDRIVEs®

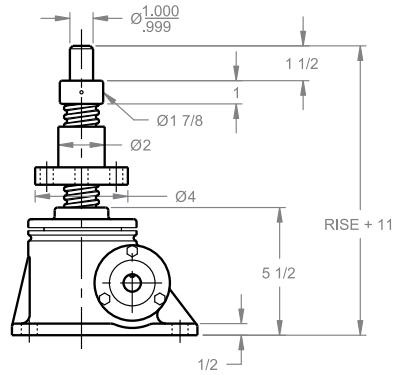
## 5 TON - 1 1/2" SCREW

CD 65 / DCD 65  
CD 125 / DCD 125  
CD 245 / DCD 245

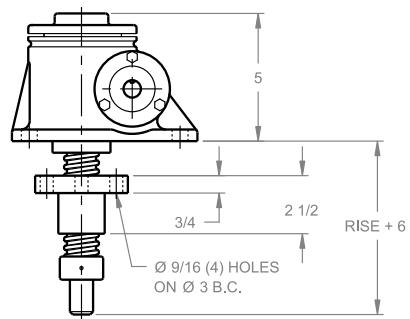
### Upright



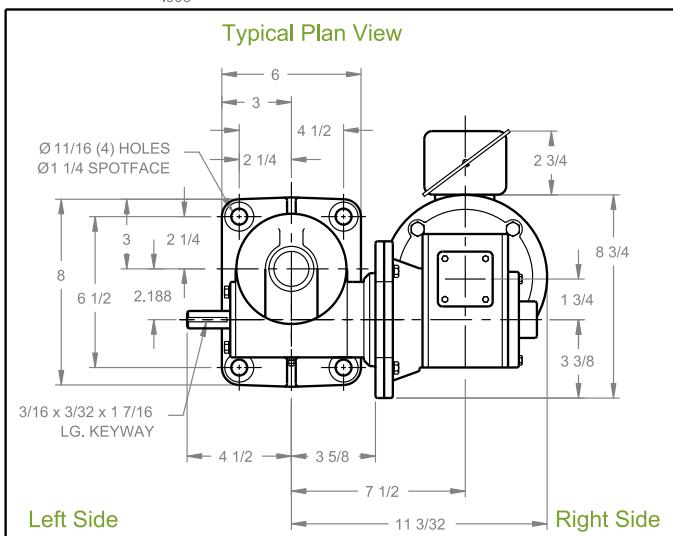
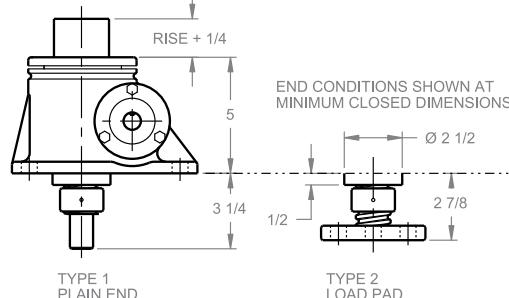
### Upright traveling nut



### Inverted traveling nut

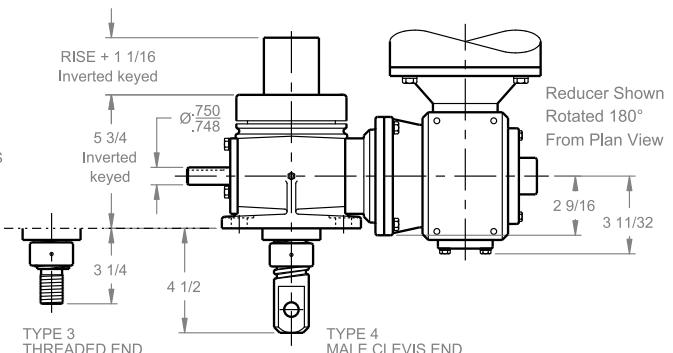


### Inverted



Left Side

Right Side



TYPE 3 THREADED END

TYPE 4 MALE CLEVIS END

NOTE: FOR LIFTING CAPACITIES SEE PAGE 49

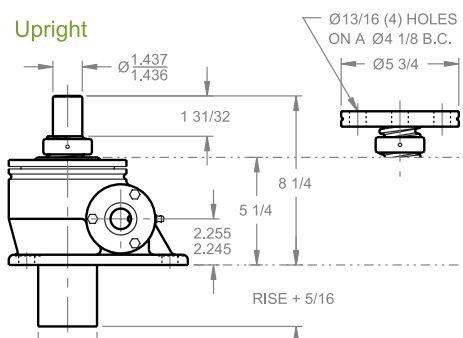
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# MACHINE SCREW ComDRIVEs®

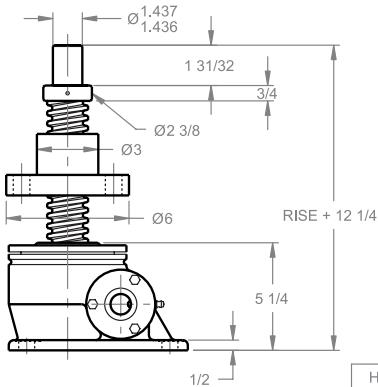
## 10 TON - 2" SCREW

CD 810 / DCD 810  
CD 2410 / DCD 2410

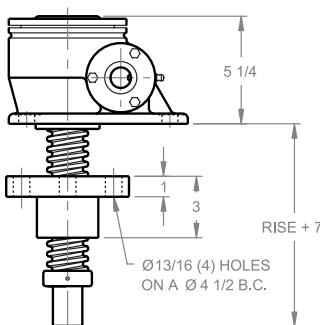
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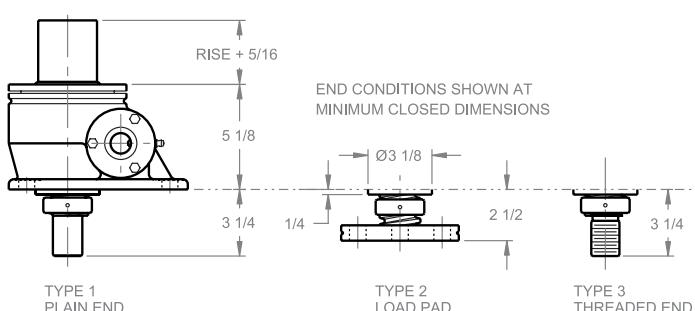
### Upright traveling nut



### Inverted traveling nut

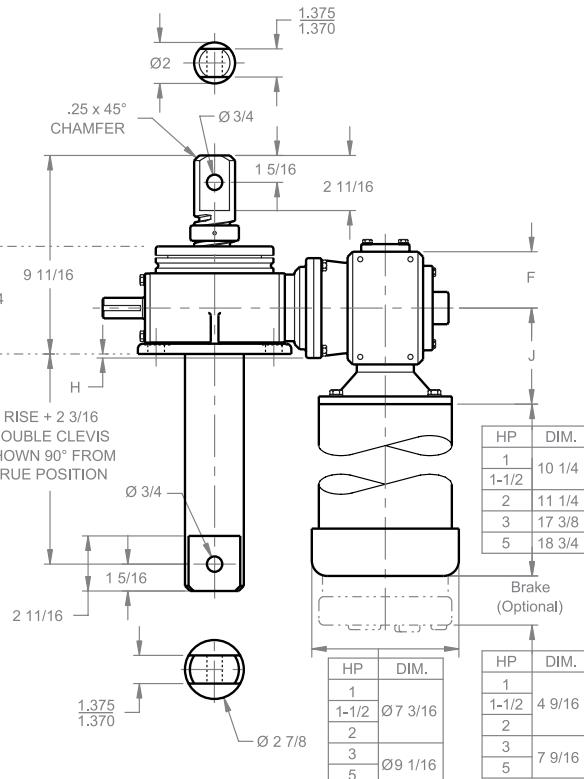


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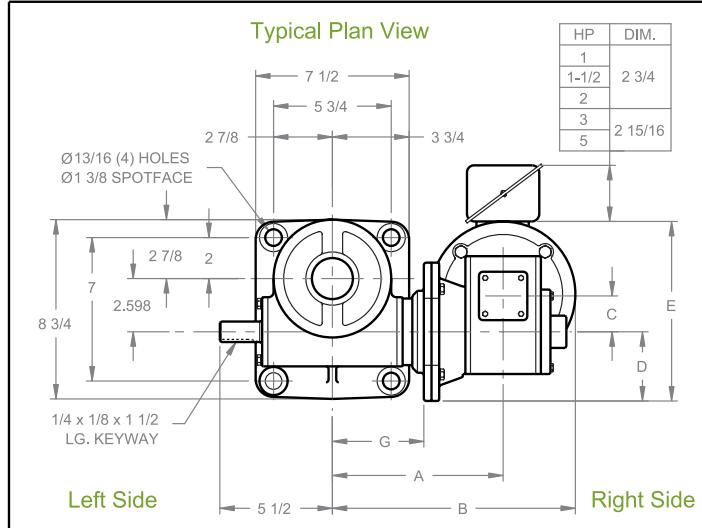


NOTE: FOR LIFTING CAPACITIES SEE PAGE 49

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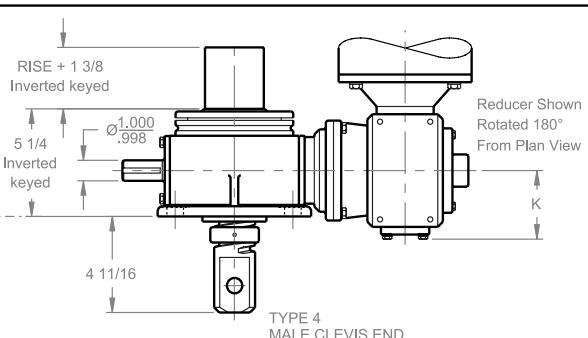


### Typical Plan View



Left Side

Right Side

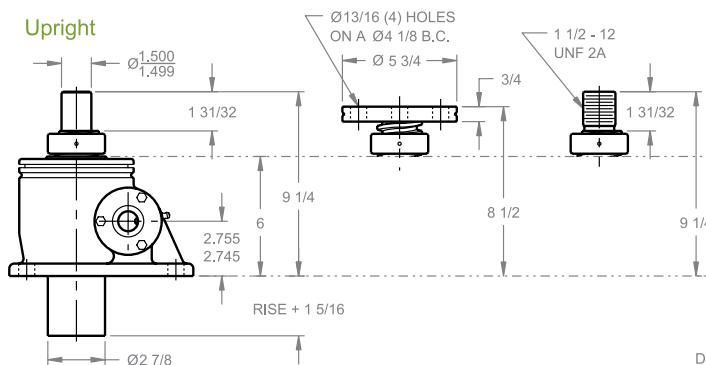


# MACHINE SCREW ComDRIVEs®

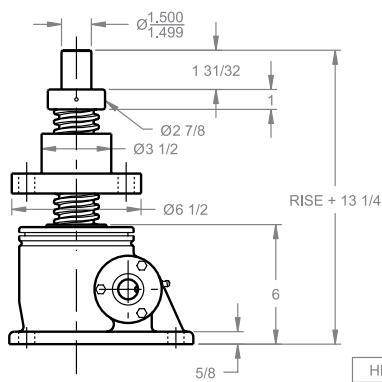
## 15 TON - 2 1/4" SCREW

CD 815 / DCD 815  
CD 2415 / DCD 2415

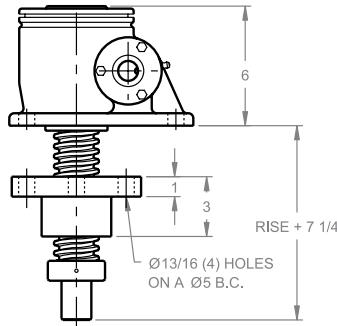
### Upright



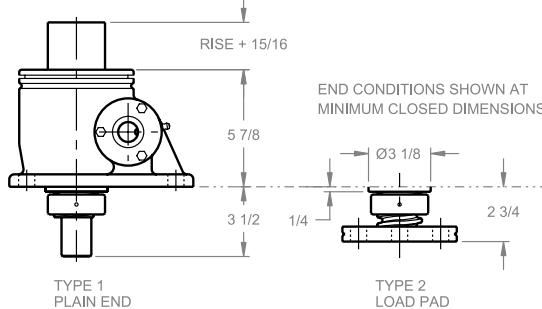
### Upright traveling nut



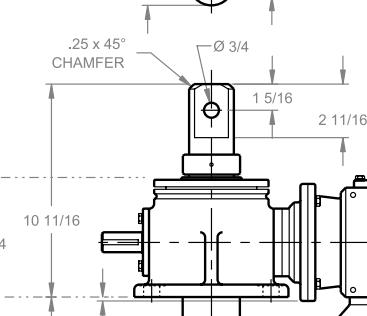
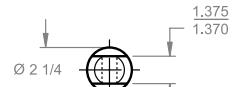
### Inverted traveling nut



### Inverted



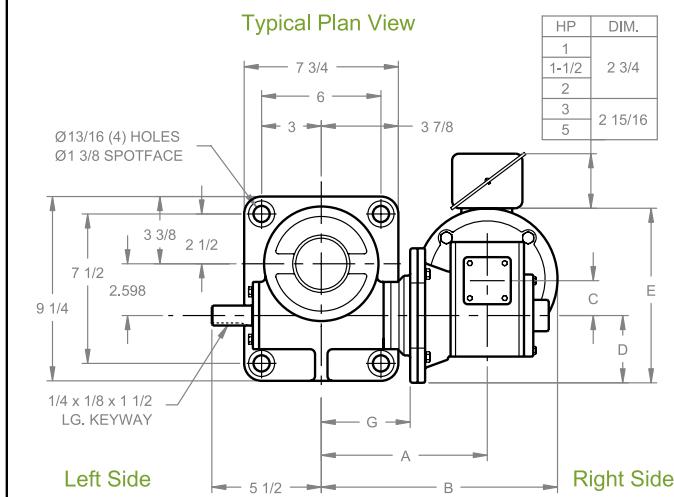
NOTE: FOR LIFTING CAPACITIES SEE PAGE 49



HP	DIM.
1	10 1/4
1-1/2	
2	11 1/4
3	17 3/8
5	18 3/4

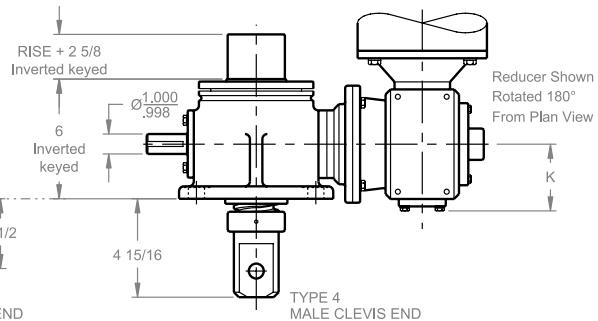
HP	DIM.
1	4 9/16
1-1/2	
2	
3	7 9/16
5	

### Typical Plan View



Left Side

Right Side

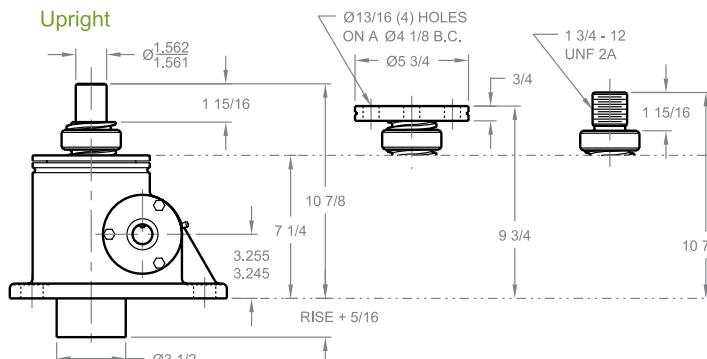


# MACHINE SCREW ComDRIVEs®

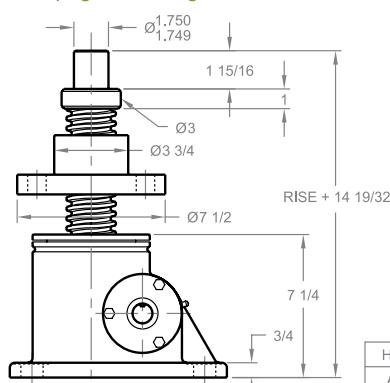
## 20 TON - 2 1/2" SCREW

**CD 820 / DCD 820  
CD 2420 / DCD 2420**

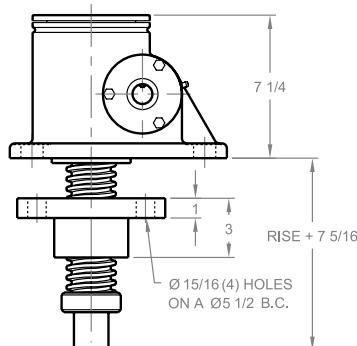
### Upright



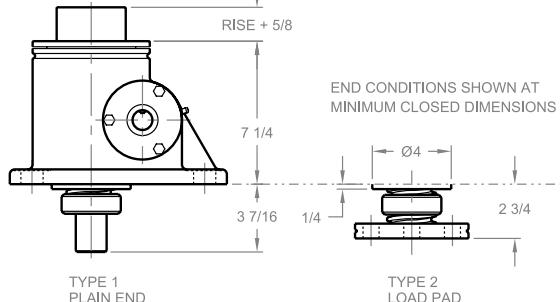
### Upright traveling nut



### Inverted traveling nut

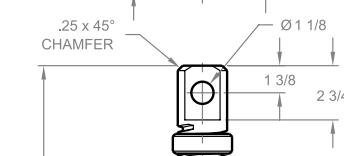
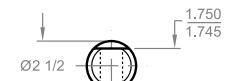


### Inverted



NOTE: FOR LIFTING CAPACITIES SEE PAGE 49

Note: Drawings are artist's conception — not for certification; dimensions are subject to change without notice.

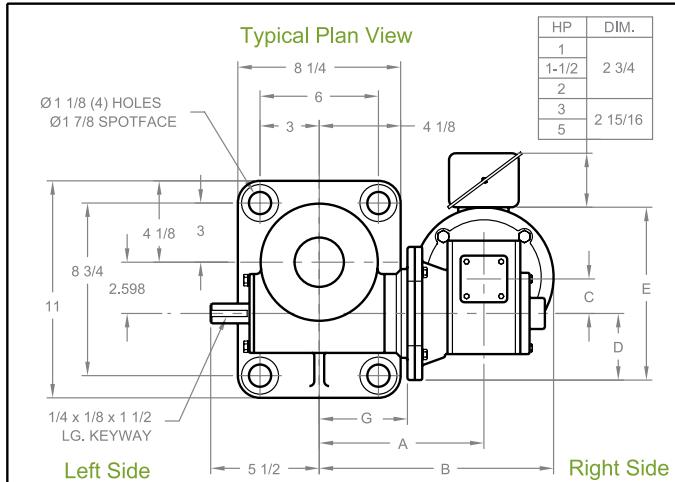


RISE + 3 5/32  
DOUBLE CLEVIS  
SHOWN 90° FROM  
TRUE POSITION

HP	DIM.
1	10 1/4
2	11 1/4
3	17 3/8
5	18 3/4

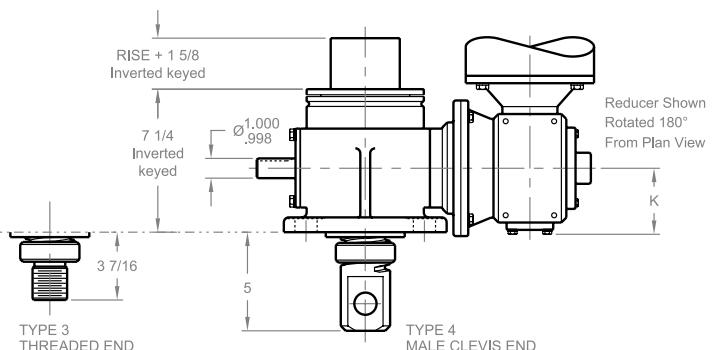
HP	DIM.
1	Ø 7 3/16
1-1/2	4 9/16
2	
3	Ø 9 1/16
5	7 9/16

### Typical Plan View



### Left Side

### Right Side

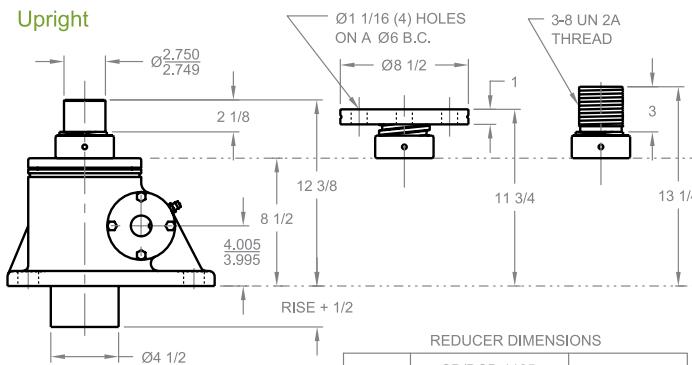


# MACHINE SCREW ComDRIVEs®

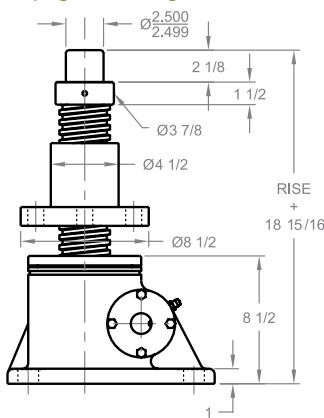
## 25 TON - 3 3/8" SCREW

CD 1125 / DCD 1125  
CD 3225 / DCD 3225

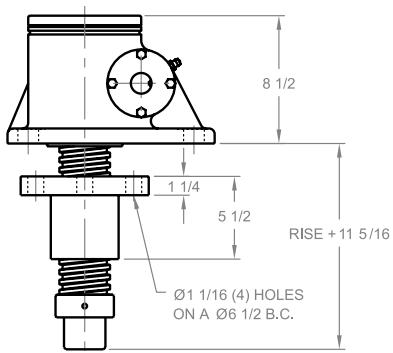
### Upright



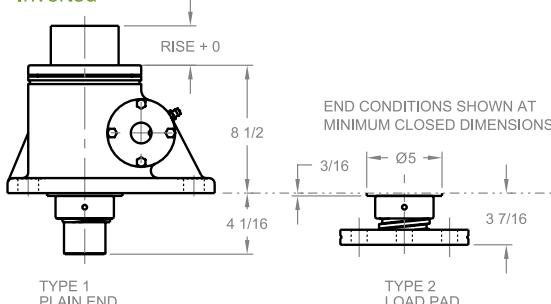
### Upright traveling nut



### Inverted traveling nut

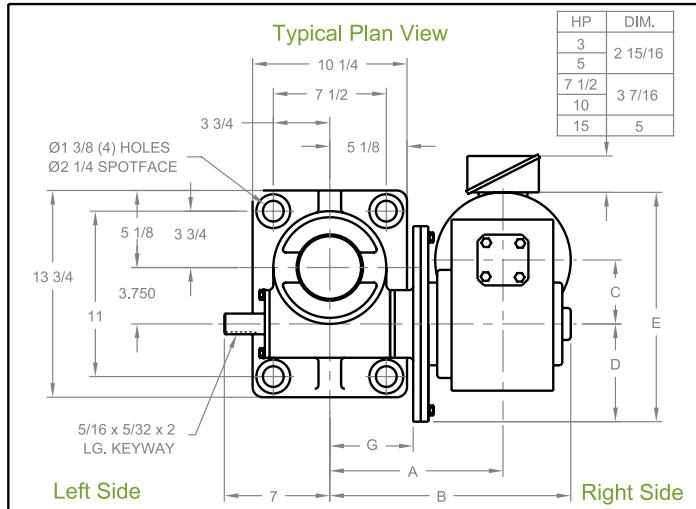
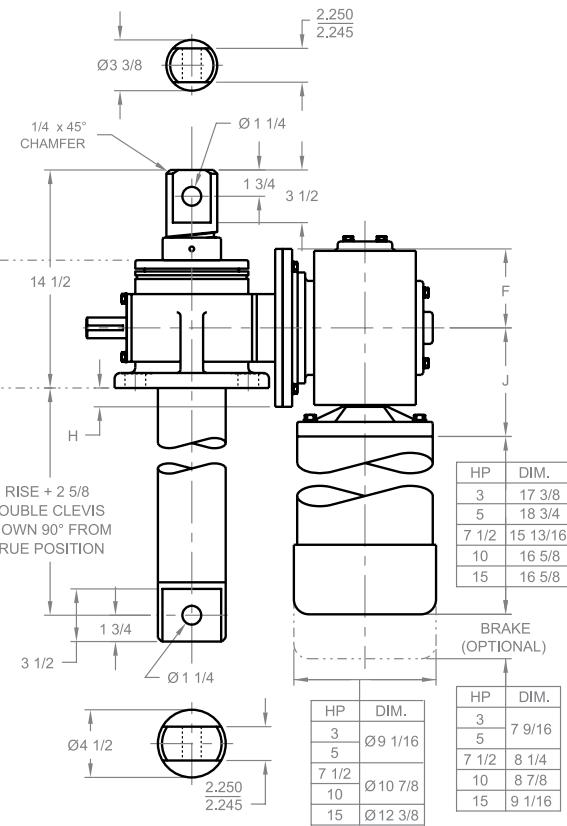


### Inverted

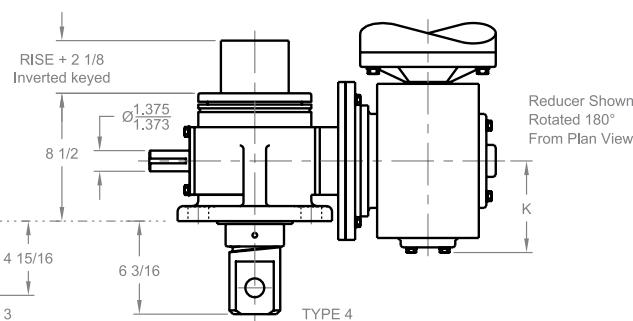


NOTE: FOR LIFTING CAPACITIES SEE PAGE 49

Note: Drawings are artist's conception — not for certification; dimensions are subject to change without notice.



Left Side Right Side



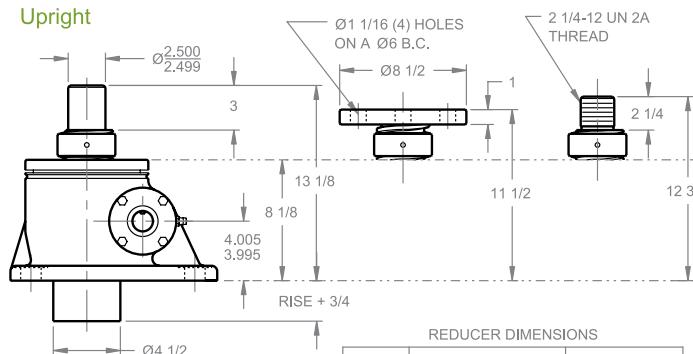
Reducer Shown Rotated 180° From Plan View

# MACHINE SCREW ComDRIVEs®

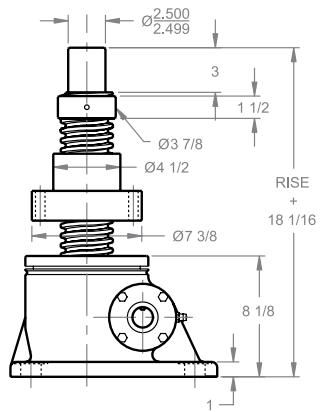
## 30 TON - 3 1/2" SCREW

**CD 1130 / DCD 1130  
CD 3230 / DCD 3230**

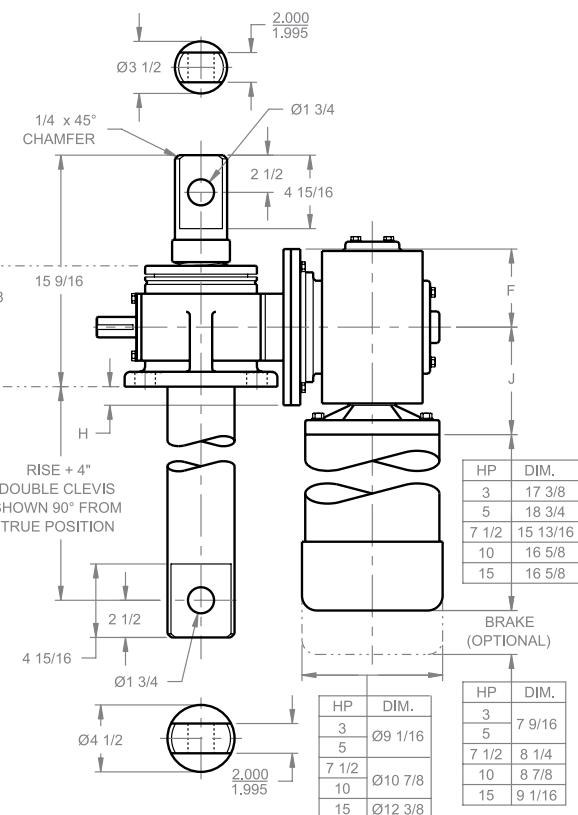
### Upright



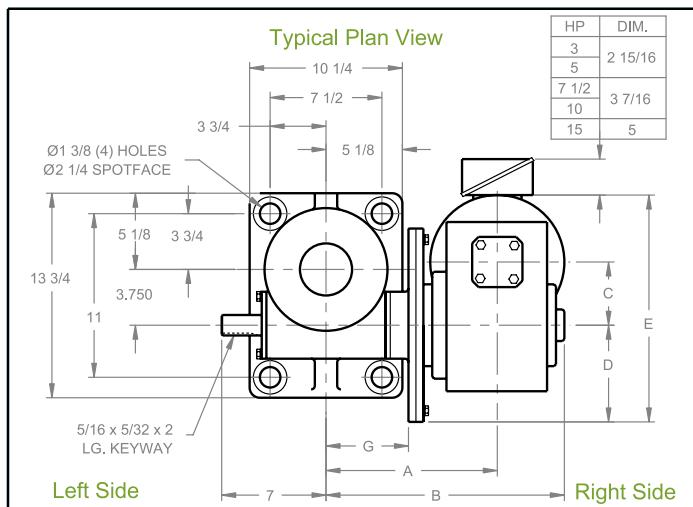
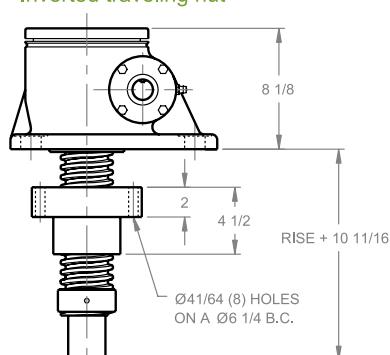
### Upright traveling nut



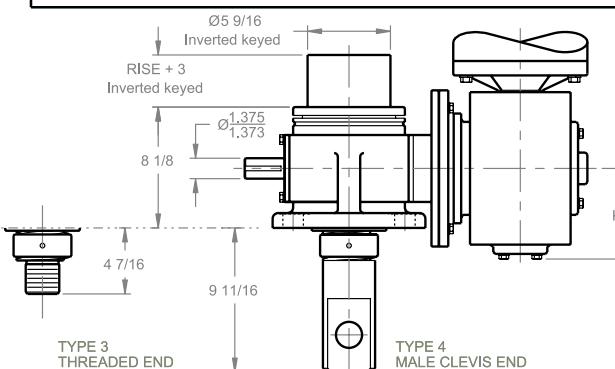
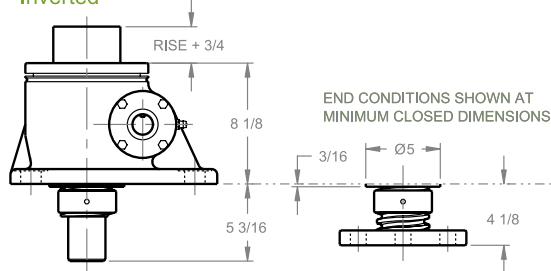
MODEL	REDUCER DIMENSIONS					
	CD/DCD 1130 CD/DCD 3230			CD/DCD 1130		
RATIO	5:1 10:1	5:1 5:1	10:1 7 1/2	5:1 7 1/2	10:1 10	5:1 15
A	9 17/32	9 31/32	11 19/32			
B	13 1/32	13 29/32	16 3/32			
C	2 5/8	3 1/4	4 1/4			
D	4 7/16	5 1/2	6 1/2			
E	11 9/16	12 3/4	15 1/4			
F	3 9/16	4 1/2	5 1/4			
G	5 1/2	5 1/2	5 1/2			
H	0	1/2	1 1/4			
J	4 11/16	6 3/4	7 1/4			
K	3 11/32	4 5/16	6 1/8			



### Inverted traveling nut



### Inverted



NOTE: FOR LIFTING CAPACITIES SEE PAGE 41

Note: Drawings are artist's conception — not for certification; dimensions are subject to change without notice.

# BALL SCREW ComDRIVEs®



2D and 3D models available on website • Ordering information on pages 104 and 105

800-523-5204

[sales@joycedayton.com](mailto:sales@joycedayton.com)

[joycedayton.com](http://joycedayton.com)

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# BALL SCREW ComDRIVE<sup>®</sup> ORDERING INFORMATION

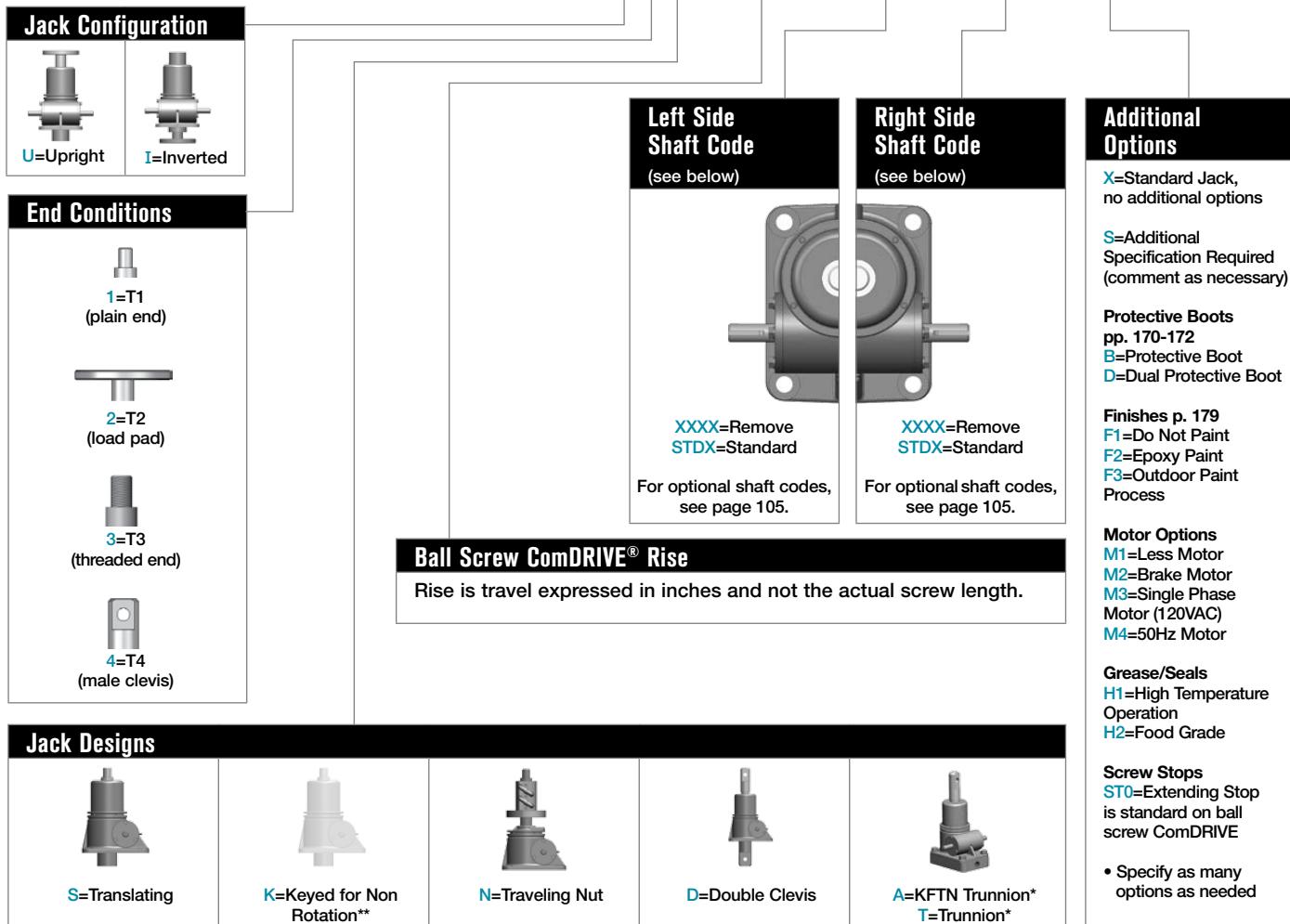
**Instructions:** Select a model number from this chart.

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**



\*Standard trunnion mounts available on 2-ton through 20-ton jacks. (See page 173)

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

# BALL SCREW ComDRIVE<sup>®</sup> 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<sup>®</sup>.

## Screw Stops (p. 10) and Boots (pp. 170-172)

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. 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.



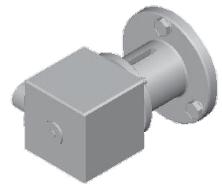
## Encoders and Electronic Limit Switches

ENCX=Encoder (p. 178)

ELS2=2 Position Electronic Switch

ELS4=4 Position Electronic Switch

ELS6=6 Position Electronic Switch



## ComDrive Reducers (pp. 107-117)

### Ordering Example: P2AC

Motor code from chart at right

#### Mounting Positions

Code	P1	P2	P3	P4	Ratio
Left Side Shaft Positions					5:1 Code A

#### 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/Dayton for other options.

## 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

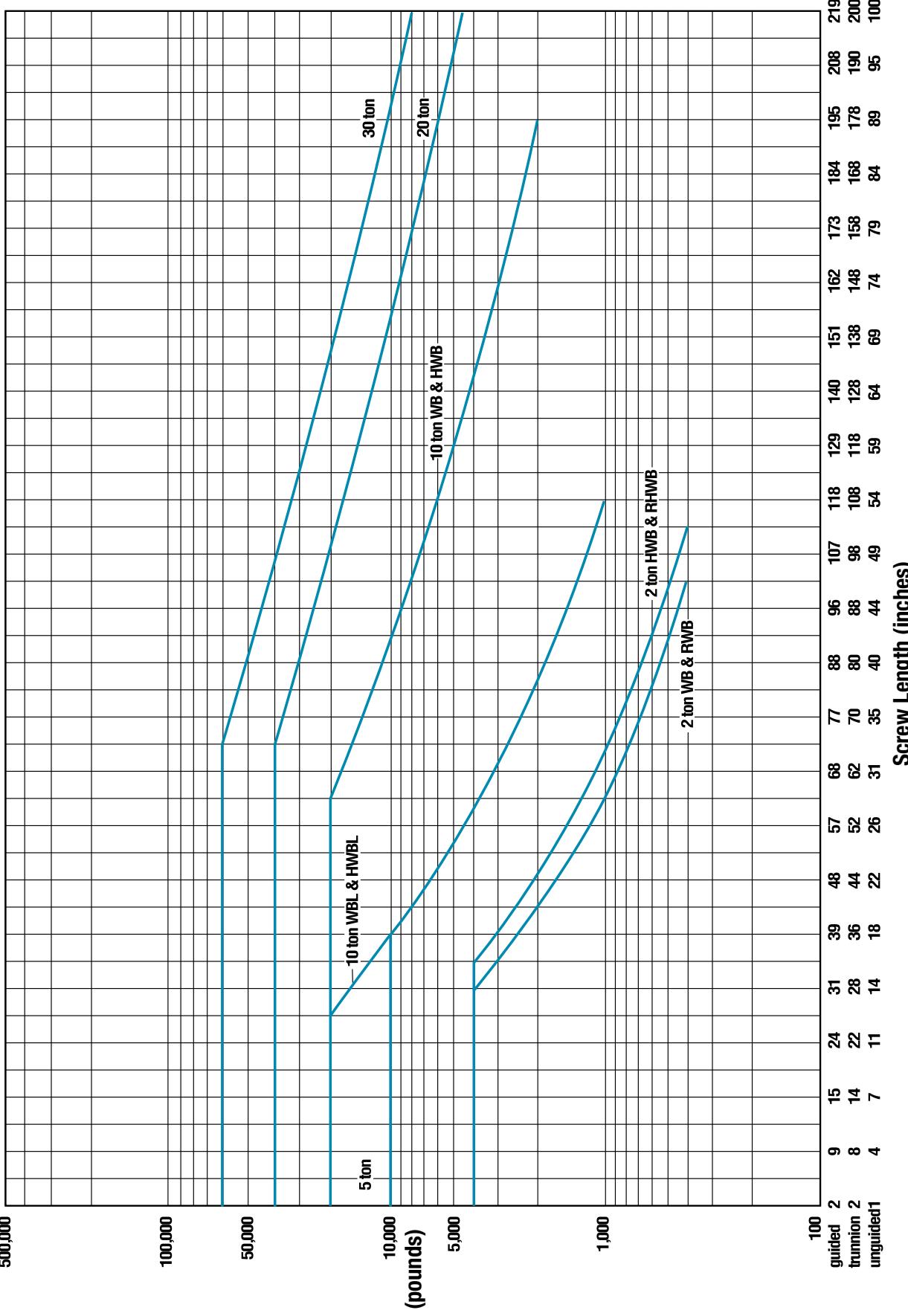
	1	2*	3	4	5	6*	7	8
Left Side Shaft Options								
Right Side Shaft Options								

- 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/Dayton with your requirements.

# BALL SCREW ComDRIVE<sup>®</sup> COLUMN LOADING

**Ball Screw ComDRIVE<sup>®</sup> Column Loading Chart**



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.

# 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	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
Lifting Capacity, Lbs.	1/3 HP	4,000	4,000	4,000	4,000	4,000	4,000	4,000	1,025	1,455	1,925	2,595	3,015
	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	
	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		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		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		5		10		
Travel Speed IPM	20.81		10.56		6.94			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		5		10		
Travel Speed IPM	20.60		10.46		6.87			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											

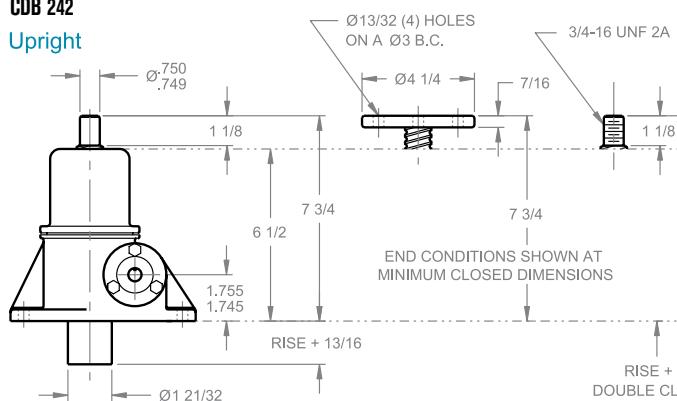
**Important Note:** Ball Screw ComDRIVEs are not self-locking. Brake motors or external locking systems are required.

# BALL SCREW ComDRIVEs®

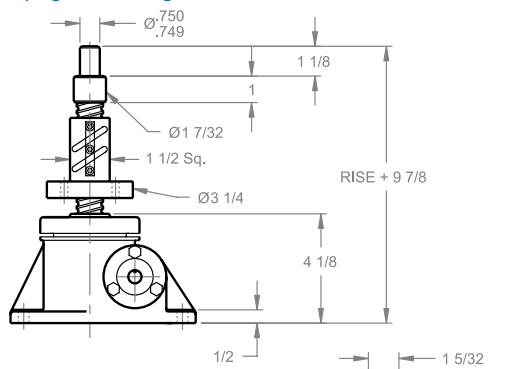
## 2 TON REVERSE BASE - 1" SCREW STANDARD

CDB 62  
CDB 122  
CDB 242

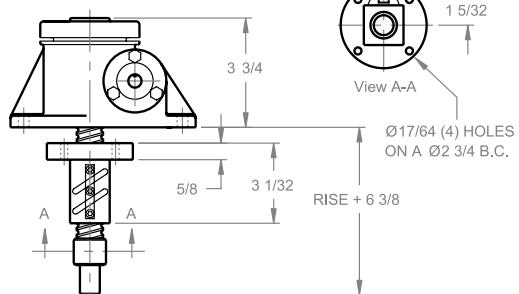
Upright



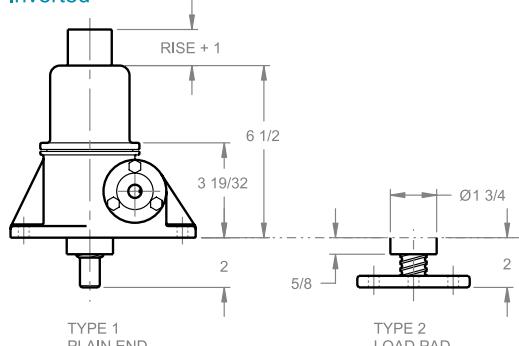
Upright traveling nut



Inverted traveling nut

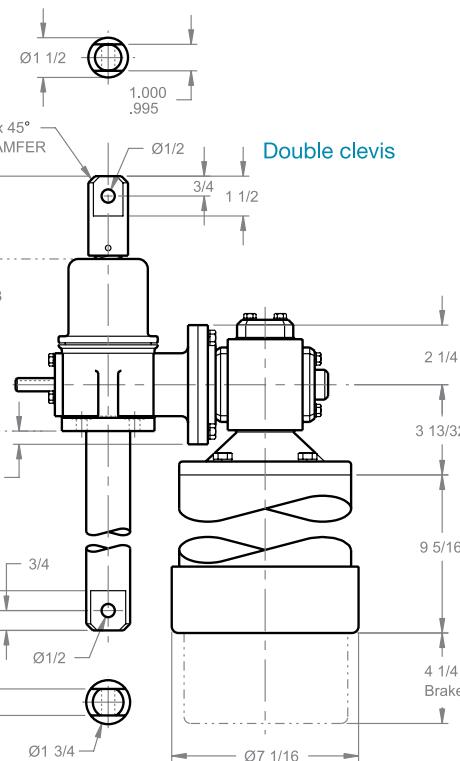


Inverted

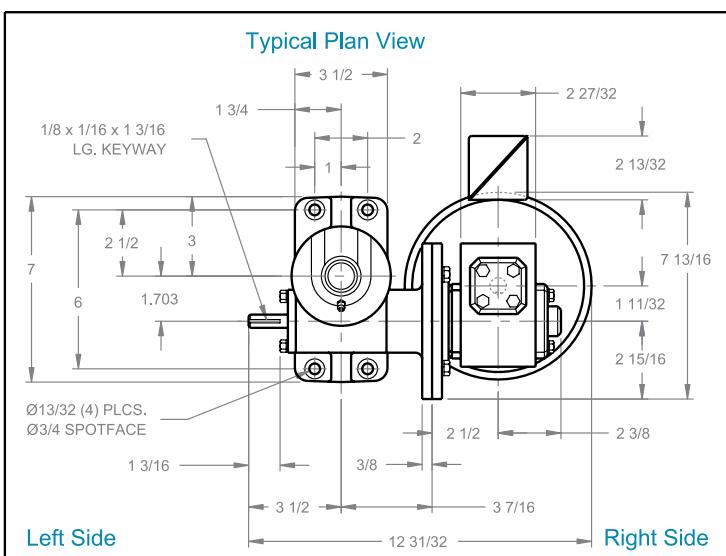


NOTE: FOR LIFTING CAPACITIES SEE PAGE 107.

Note: Drawings are artist's conception — not for certification; dimensions are subject to change without notice.

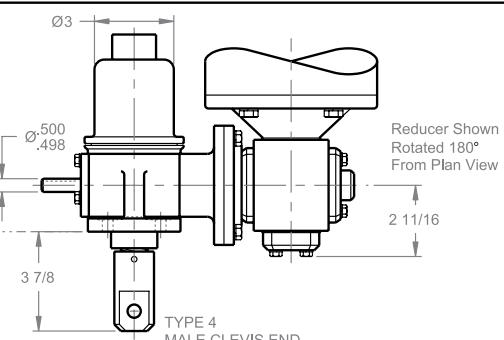


Typical Plan View



Left Side

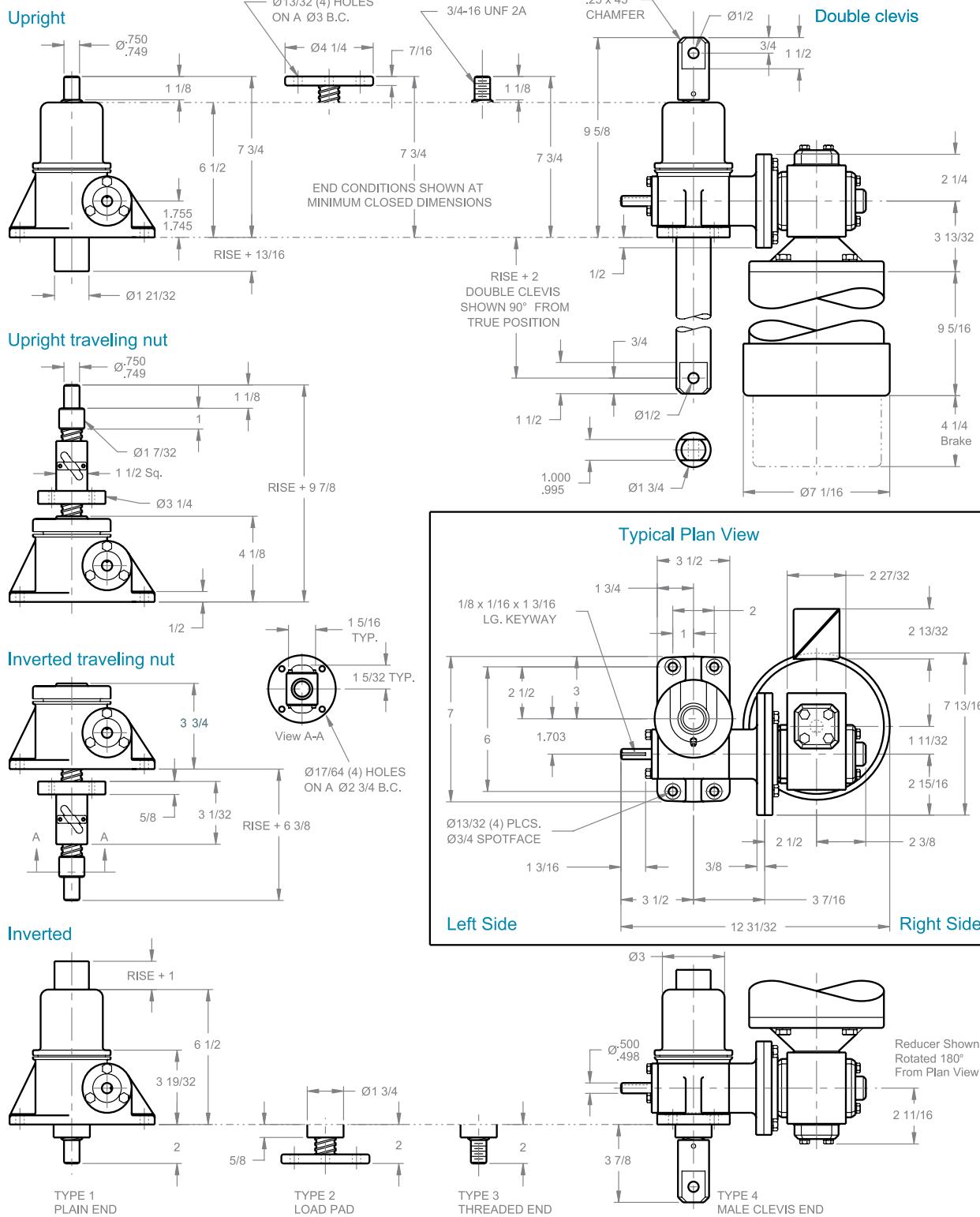
Right Side



# BALL SCREW ComDRIVEs®

## 2 TON REVERSE BASE - 1" SCREW HIGH LEAD

CDHB 62  
CDHB 122  
CDHB 242



NOTE: FOR LIFTING CAPACITIES SEE PAGE 107.

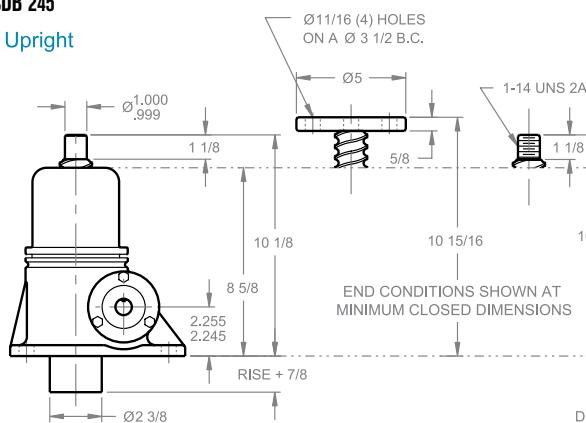
Note: Drawings are artist's conception — not for certification; dimensions are subject to change without notice.

# BALL SCREW ComDRIVEs®

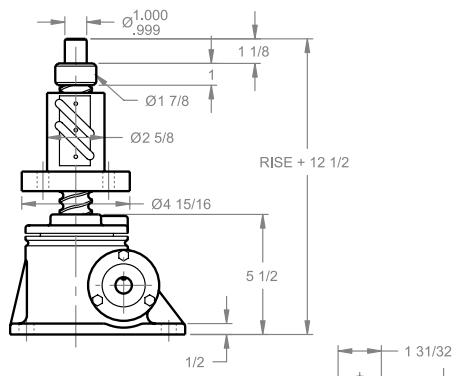
## 5 TON - 1 1/2" SCREW STANDARD

CDB 65  
CDB 125  
CDB 245

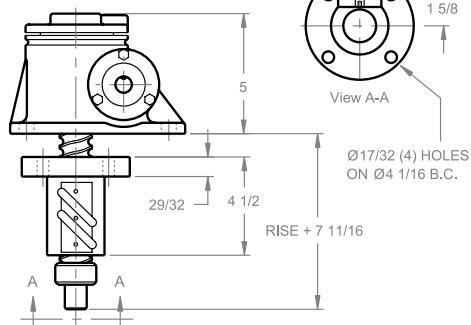
Upright



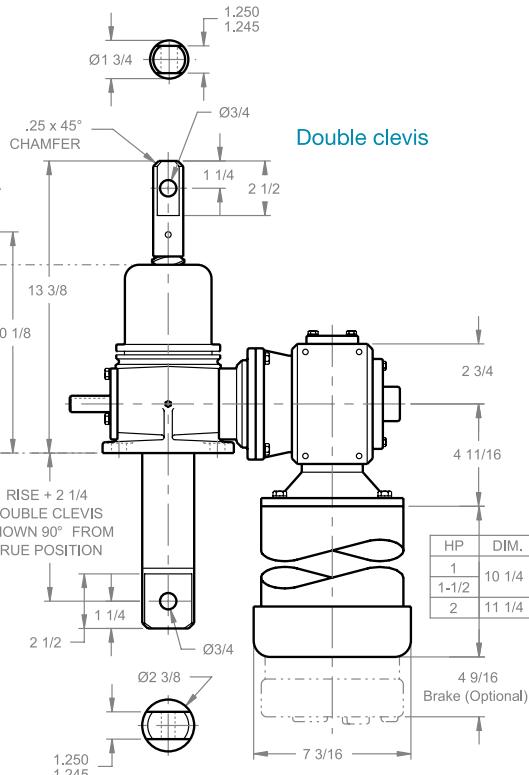
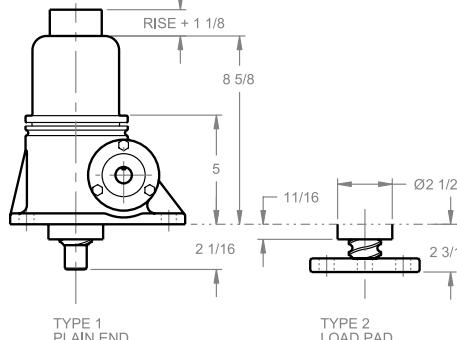
Upright traveling nut



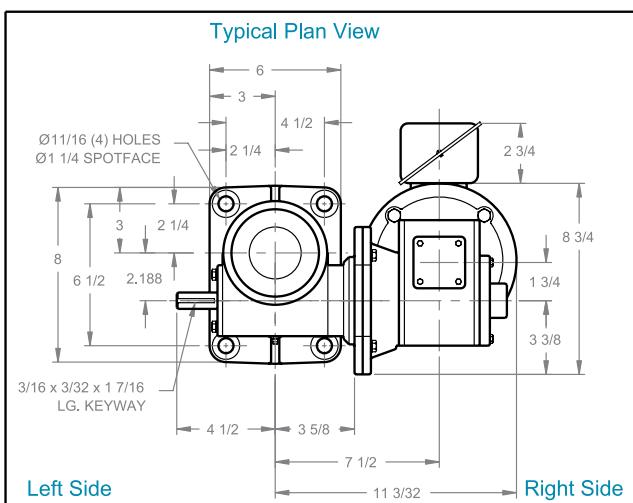
Inverted traveling nut



Inverted

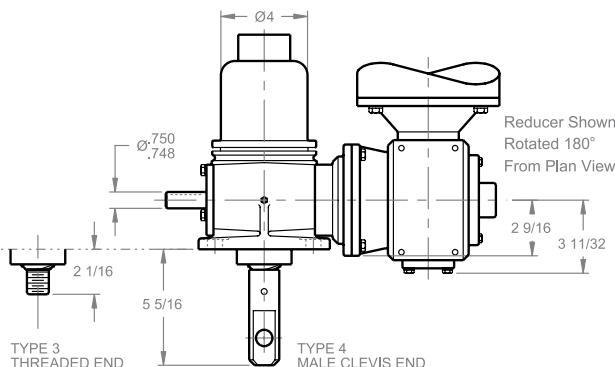


Typical Plan View



Left Side

Right Side



NOTE: FOR LIFTING CAPACITIES SEE PAGE 107.

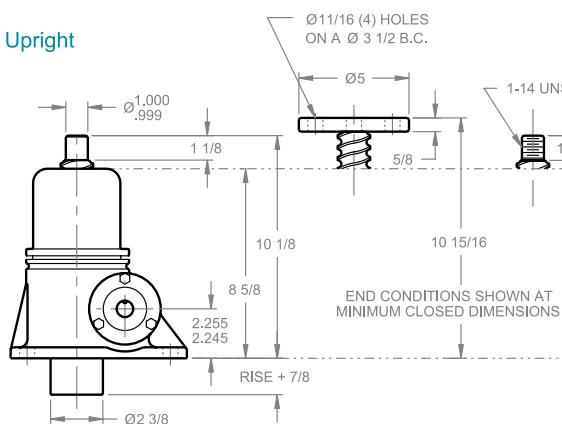
Note: Drawings are artist's conception — not for certification; dimensions are subject to change without notice.

# BALL SCREW ComDRIVEs®

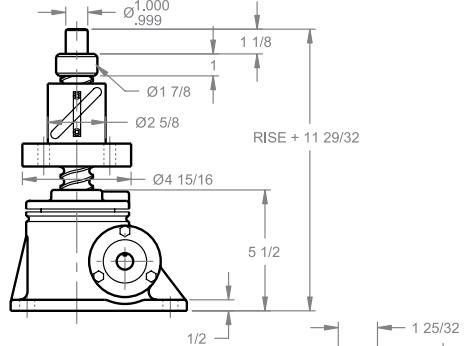
## 5 TON - 1 1/2" SCREW HIGH LEAD

**CDHB 65**  
**CDHB 125**  
**CDHB 245**

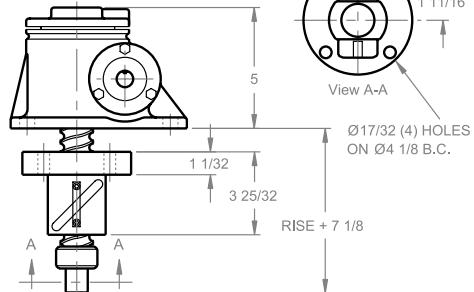
### Upright



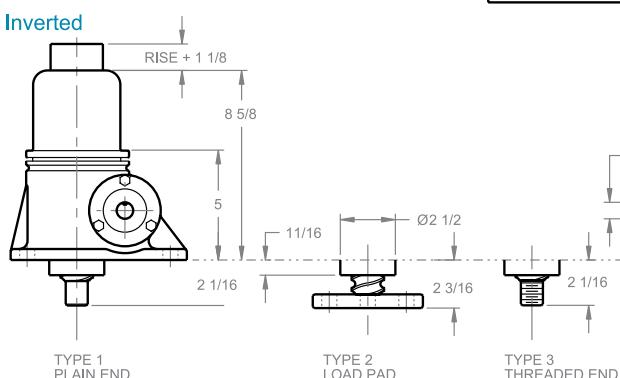
### Upright traveling nut



### Inverted traveling nut

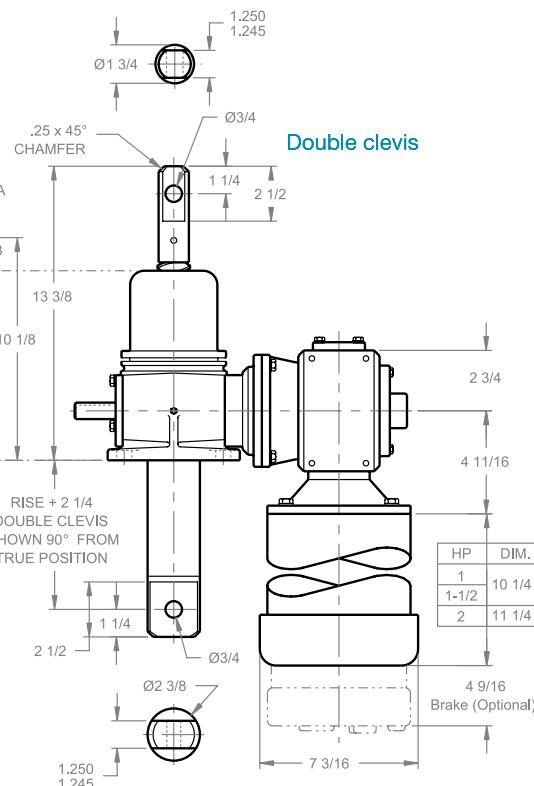


### Inverted

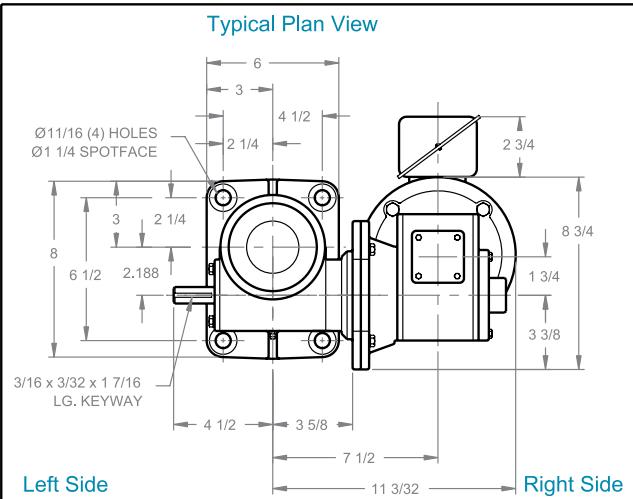


NOTE: FOR LIFTING CAPACITIES SEE PAGE 107.

Note: Drawings are artist's conception — not for certification; dimensions are subject to change without notice.

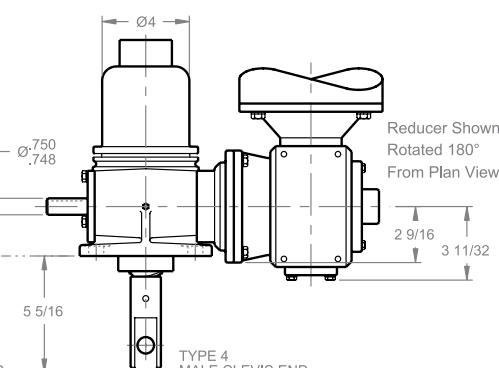


### Typical Plan View



Left Side

Right Side

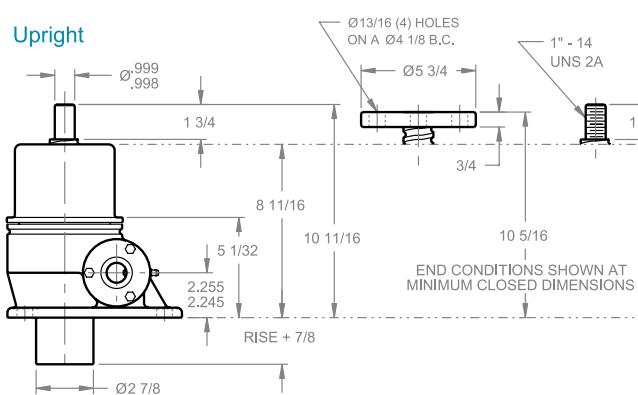


# BALL SCREW ComDRIVEs®

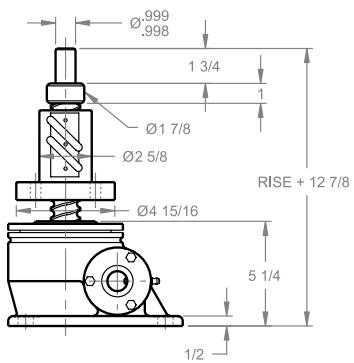
## 10 TON - 1 1/2" SCREW STANDARD

CDBL 810  
CDBL 2410

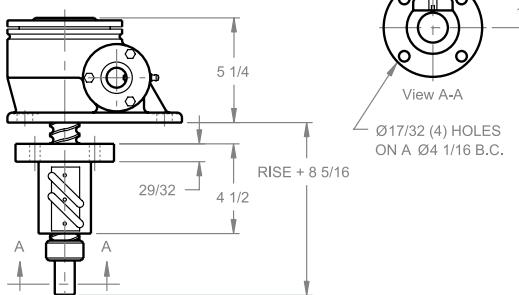
### Upright



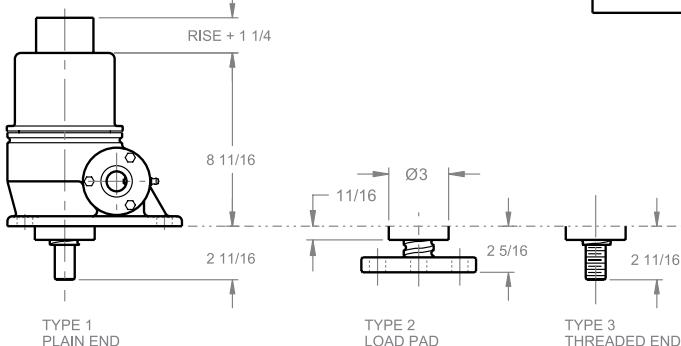
### Upright traveling nut



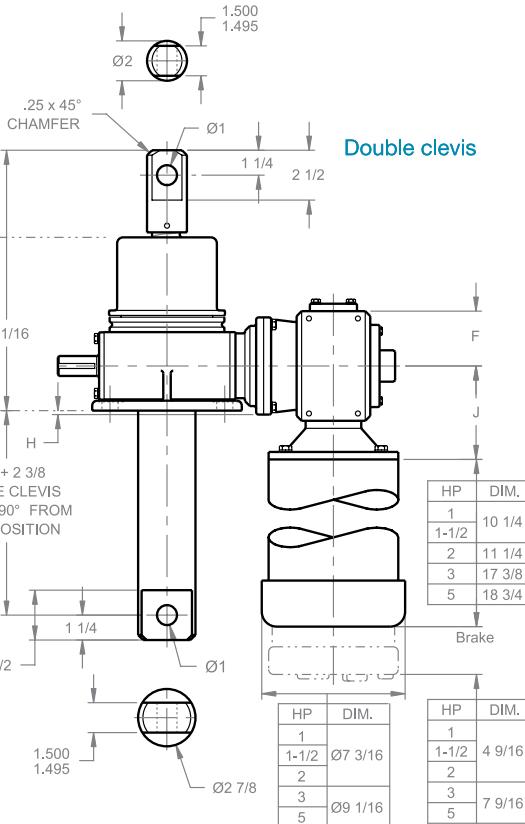
### Inverted traveling nut



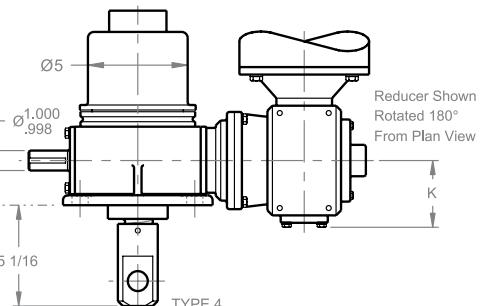
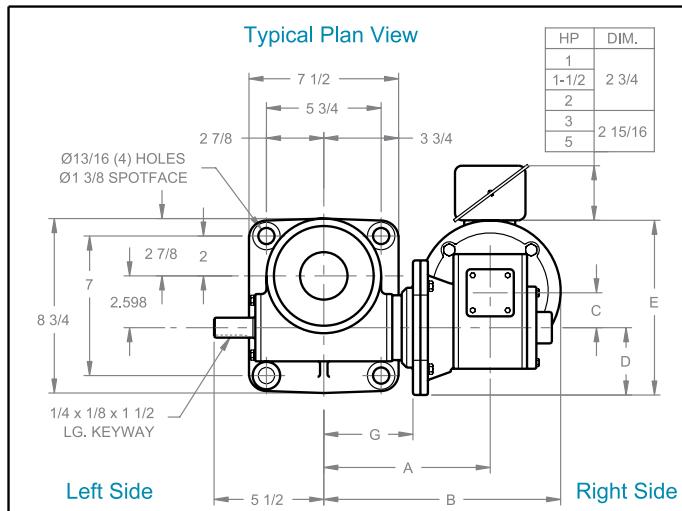
### Inverted



NOTE: FOR LIFTING CAPACITIES SEE PAGE 107.



### Typical Plan View

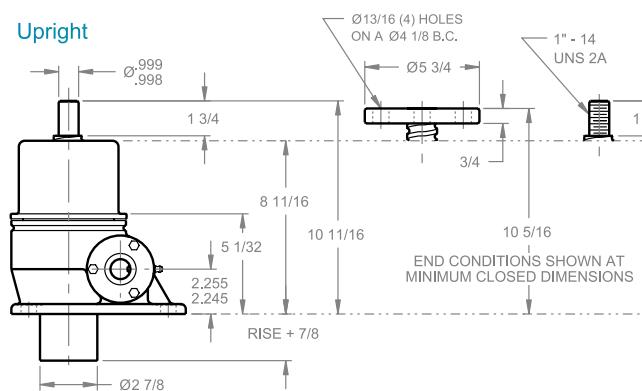


# BALL SCREW ComDRIVEs®

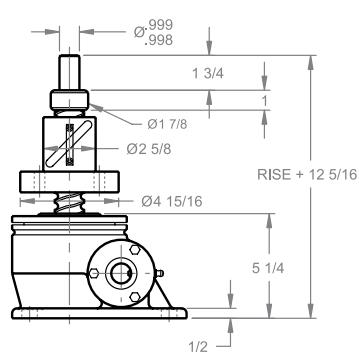
## 10 TON - 1 1/2" SCREW STANDARD HIGH LEAD

**CDHBL 810**  
**CDHBL 2410**

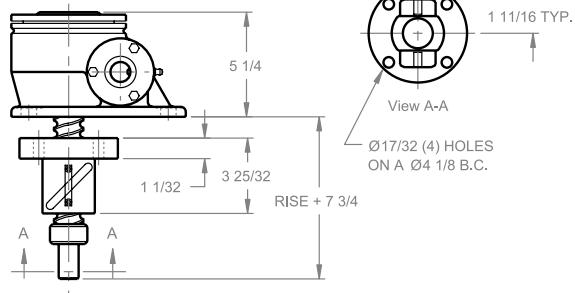
### Upright



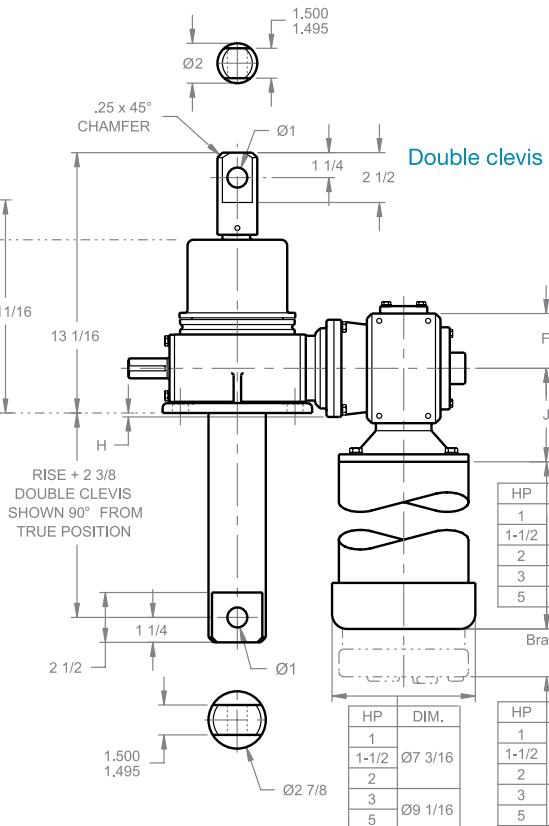
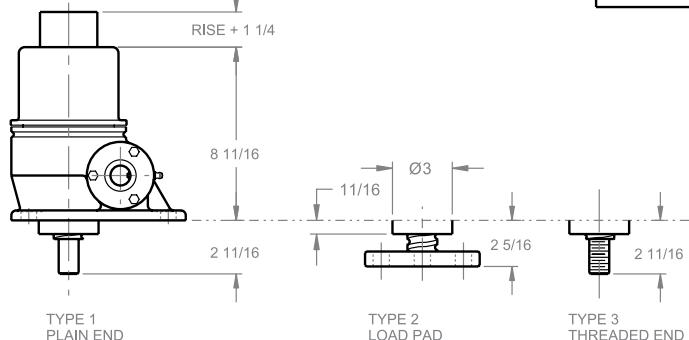
### Upright traveling nut



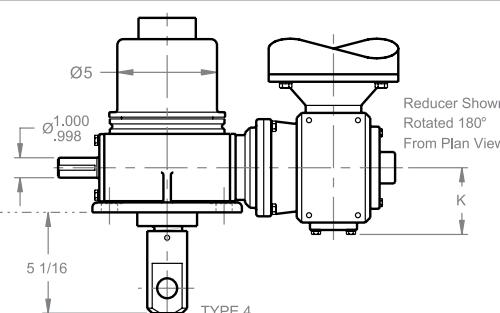
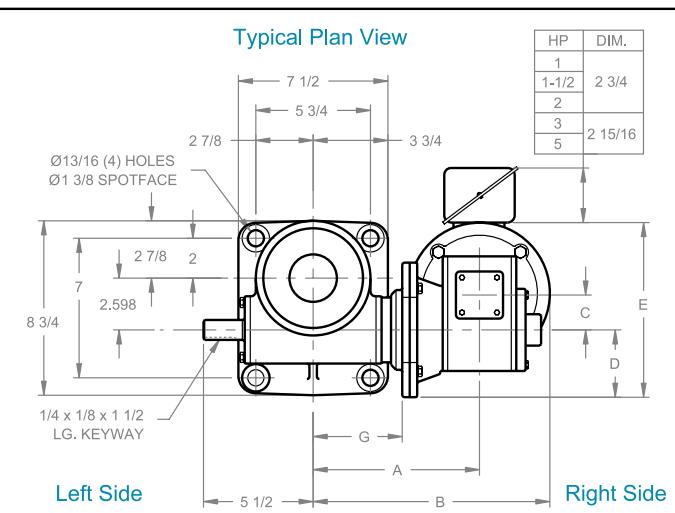
### Inverted traveling nut



### Inverted



### Typical Plan View



NOTE: FOR LIFTING CAPACITIES SEE PAGE 107.

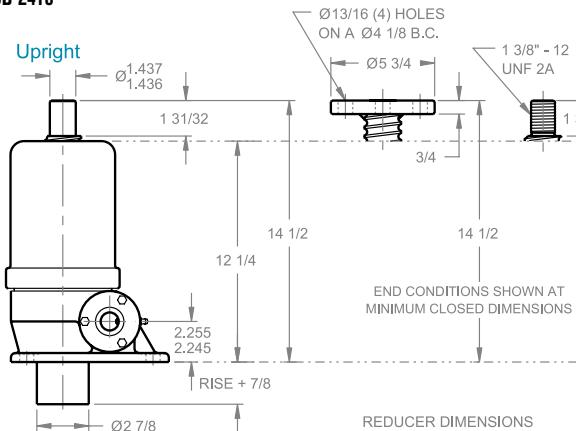
Note: Drawings are artist's conception — not for certification; dimensions are subject to change without notice.

# BALL SCREW ComDRIVEs®

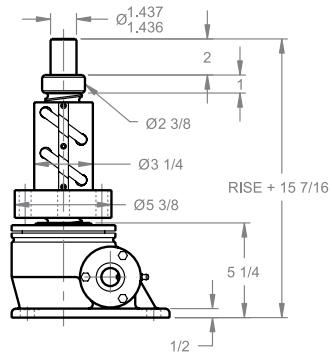
## 10 TON - 2" SCREW HEAVY DUTY

CDB 810  
CDB 2410

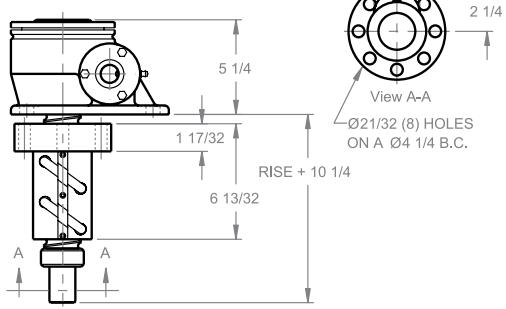
### Upright



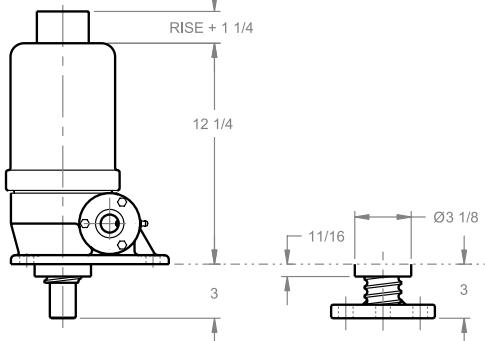
### Upright traveling nut



### Inverted traveling nut



### Inverted



NOTE: FOR LIFTING CAPACITIES SEE PAGE 107.

Note: Drawings are artist's conception — not for certification; dimensions are subject to change without notice.

2D and 3D models available on website • Ordering information on pages 104 and 105

[joycedayton.com](http://joycedayton.com)

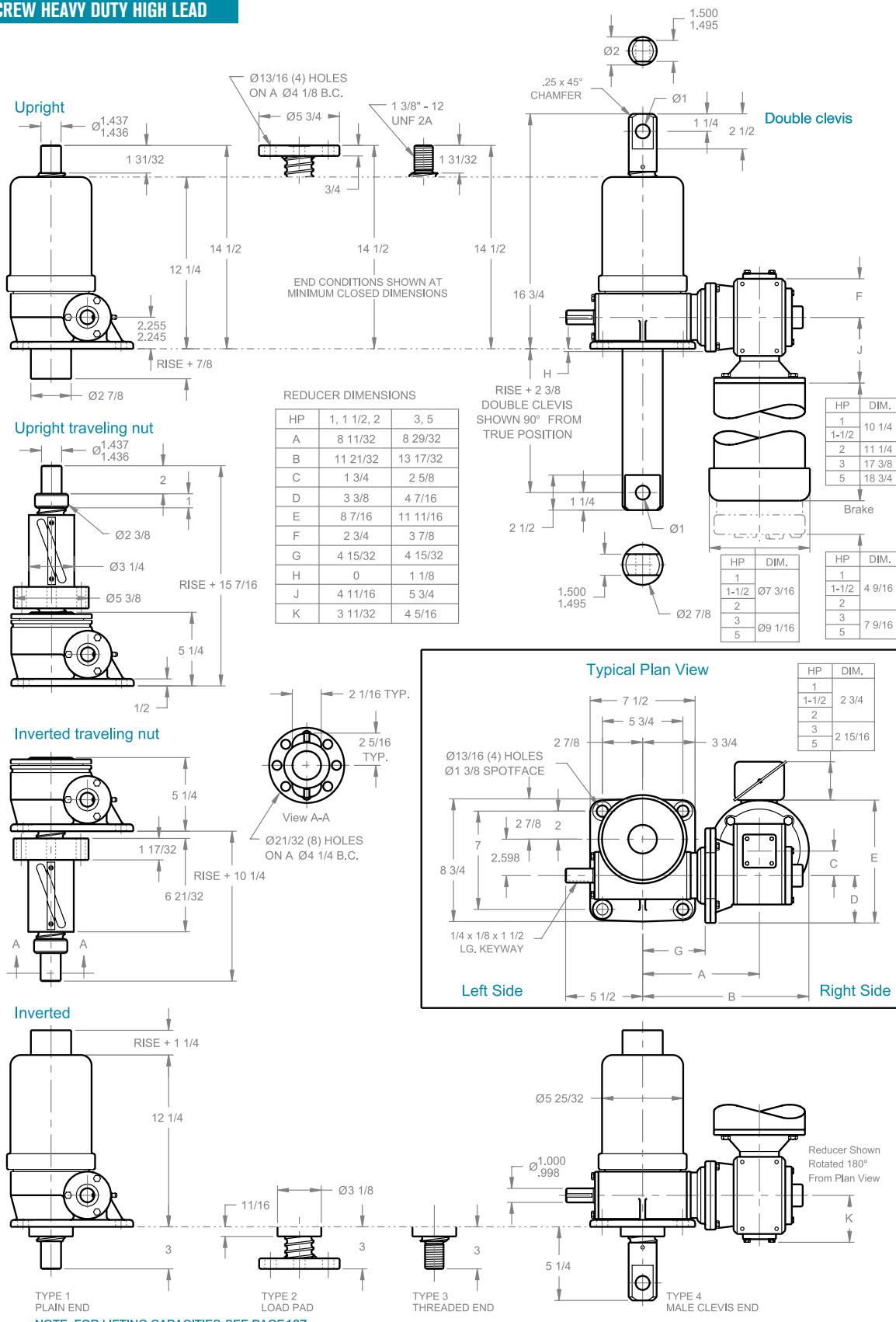
[sales@joycedayton.com](mailto:sales@joycedayton.com)

800-523-5204

# BALL SCREW ComDRIVEs®

## 10 TON - 2" SCREW HEAVY DUTY HIGH LEAD

**CDHB 810**  
**CDHB 2410**



NOTE: FOR LIFTING CAPACITIES SEE PAGE 107.

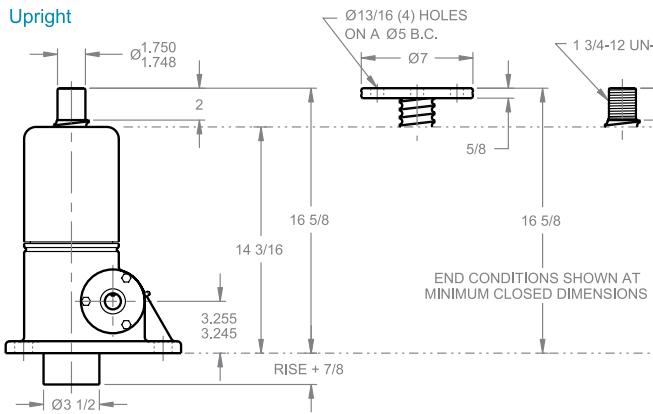
Note: Drawings are artist's conception — not for certification; dimensions are subject to change without notice.

# BALL SCREW ComDRIVEs®

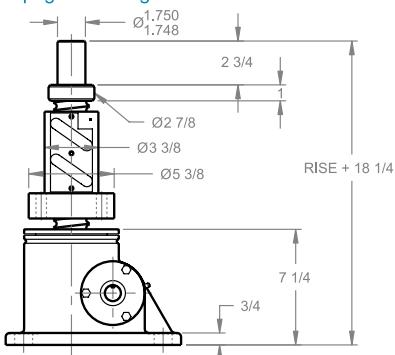
## 20 TON - 2 1/4" SCREW STANDARD

CDB 820  
CDB 2420

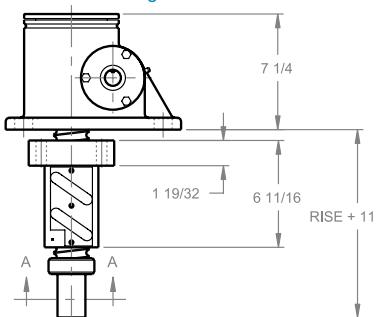
### Upright



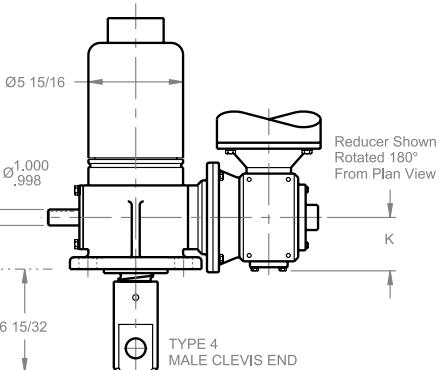
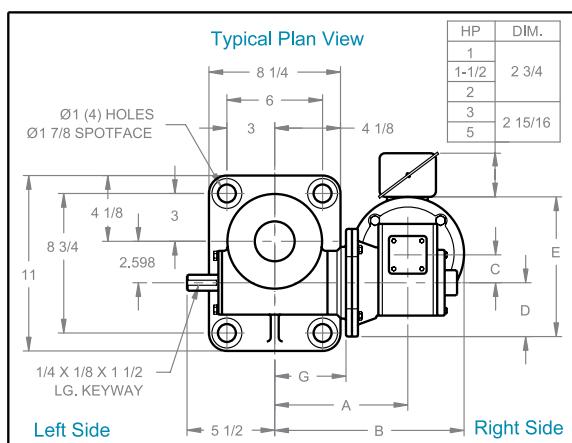
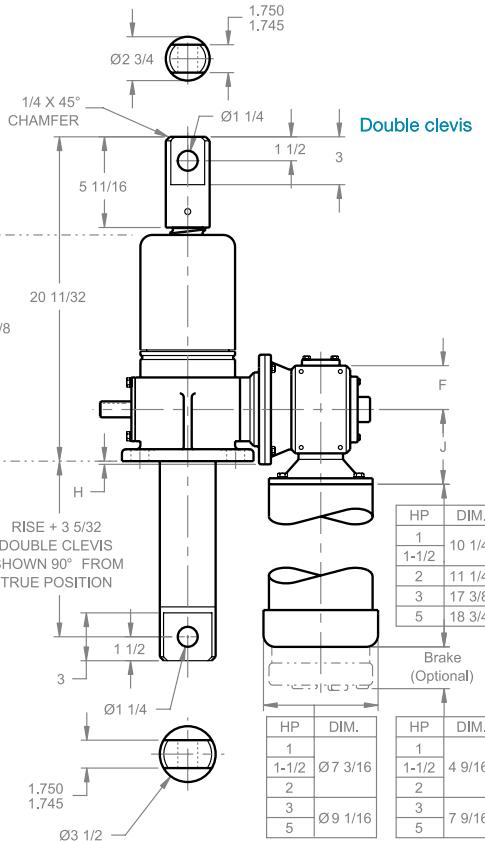
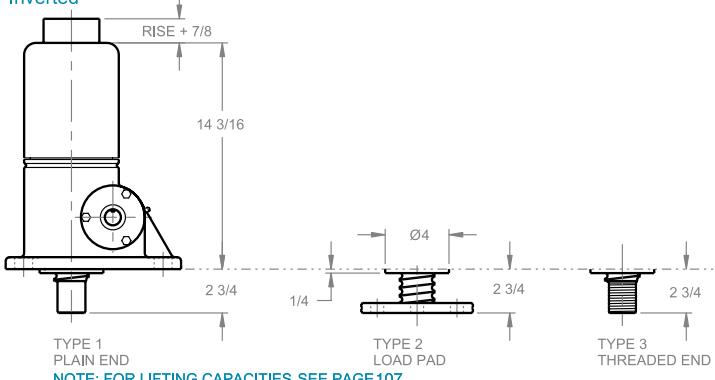
### Upright traveling nut



### Inverted traveling nut



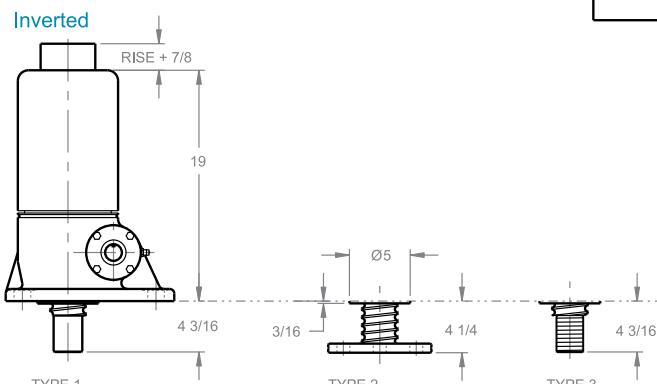
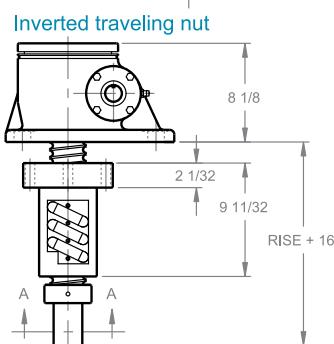
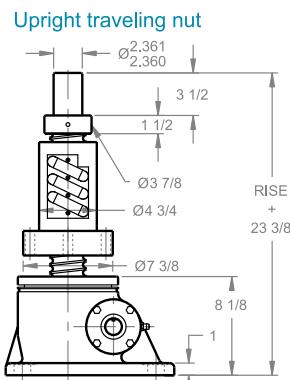
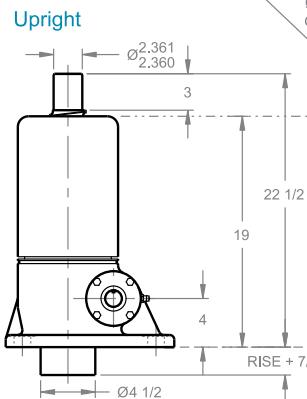
### Inverted



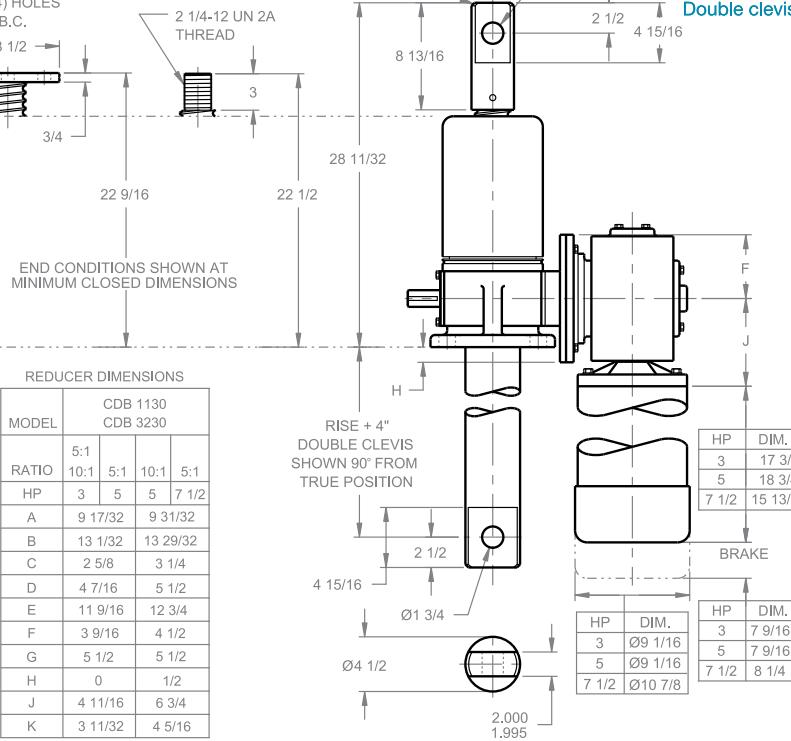
# BALL SCREW ComDRIVEs®

## 30 TON - 3" SCREW STANDARD

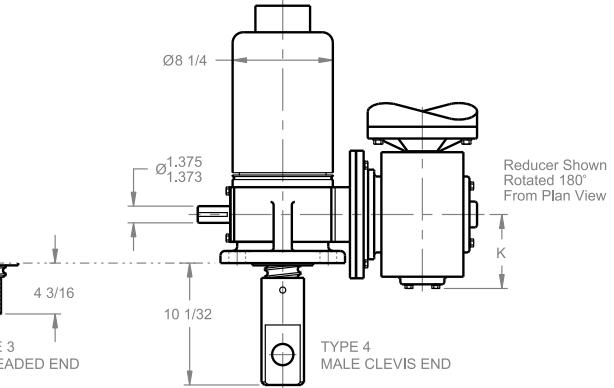
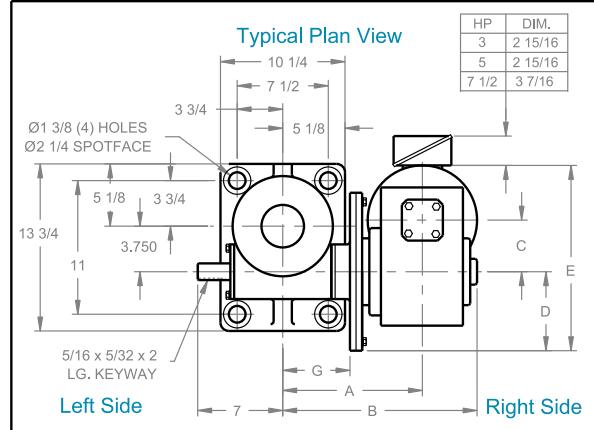
CDB 1130  
CDB 3230



NOTE: FOR LIFTING CAPACITIES SEE PAGE 107.



REDUCER DIMENSIONS				
MODEL	CDB 1130	CDB 3230		
RATIO	5:1	10:1	5:1	5:1
HP	3	5	5	7 1/2
A	9 17/32	9 31/32		
B	13 1/32	13 29/32		
C	2 5/8	3 1/4		
D	4 7/16	5 1/2		
E	11 9/16	12 3/4		
F	3 9/16	4 1/2		
G	5 1/2	5 1/2		
H	0	1/2		
J	4 11/16	6 3/4		
K	3 11/32	4 5/16		



Note: Drawings are artist's conception — not for certification; dimensions are subject to change without notice.