

Right Angle Crown® Gear Drives





HOW THE CROWN RIGHT ANGLE GEAR DRIVE WORKS

Crown two and three-way right angle gear drives transmit power with quiet, dependable spiral bevel gears.

Crown right angle gear drives feature hardened spiral bevel gears and non-magnetic stainless steel shafts. They are compact and feature multiple mounting options. The fully enclosed design ensures that internal gears can't get out of alignment, jam up or become contaminated by debris. The cast aluminum housing is designed for maximum strength and heat dissipation. The drives are available with shafts of 3/8, 1/2, 5/8 and 3/4 inch diameter in two and threeway units with both 1:1 and 2:1 ratios. Three-way units in 1:1 and 2:1 ratios are available with 1 inch shafts. A wide variety of shafts are available including squared, splined, extended, shortened and stepped.

Applications include printing and packaging machines, off-highway vehicles and special machinery of all types.



Features	Benefits
Double sealed bearings	Holds lubrication in, keeps dirt out
Precision hardened and ground ball bearings	Smooth, quiet, long operating life
Non-magnetic stainless steel shafts	Corrosion resistant. Minimal maintenance
Aluminum alloy housing	Light weight, high strength and heat dissipation
Many standard types and sizes, plus special shafts	Get the exact model that fits your application needs
Multiple mounting positions	Simplifies design considerations
Proven design	Proven in thousands of applications for over 40 years



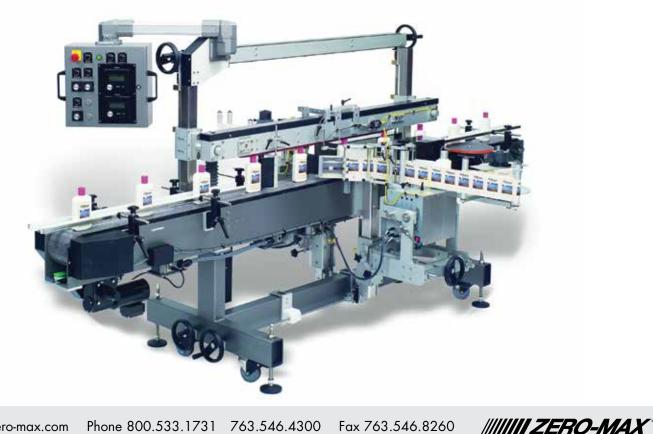
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HOW TO SELECT A RIGHT ANGLE CROWN GEAR DRIVE

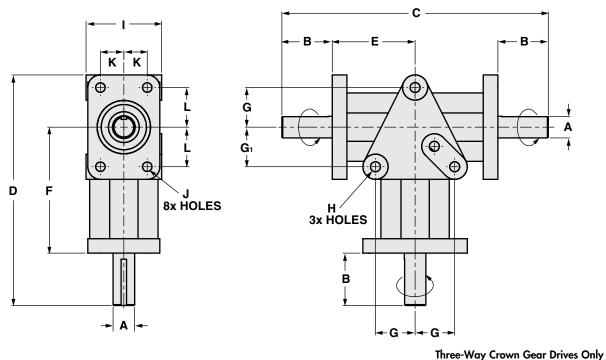
- 1. Determine Your Preferred Input/Output Ratio. Standard ratios are 1:1 and 2:1. It is also possible to use a step up ratio of 1:2 by using shaft #2 as the input shaft. (See drawings on pages 3-5).
- 2. Designate Which Shafts Are To Be Input And Output Shafts. This step is especially important to determine that no shaft will turn faster than 2000 RPM. If shaft #2 in the 2:1 ratio models is selected as the input shaft, it can turn at a maximum of 1000 RPM. In the 1:1 ratio models it makes no difference. However, the choice in either case will affect your mounting.
- 3. Be Certain That The Designated Output Shaft Has A Torque Capacity Greater Than Your Applications Load. Consult the tables on the pages 6-8, and be sure to apply the service factors from the chart below.
- 4. Choose Drive Type. Use either 2-way or 3-way configuration.
- 5. Select The Correct Model Number. On pages 3-5, select the correct model number; note that units with 3/8 inch shafts have flats and units with 1/2, 5/8, 3/4 and 1 inch shafts have standard keyways. Also note that 1 inch shaft models are available in 3-way type only.
- 6. If modifications of shafts and/or housings are required for your application, send a drawing and a description of the application to the factory.

The Service Factors listed below will cover most usual applications. Applications dealing with single and multi-cylinder internal combustion engines, extreme repetitive shock loads and high energy loads are not covered. For additional information, please contact the factory.

Determine]	Driven Machine Load C	lassifications
Prime Mover	Determine Duration of Service	Uni-form	Mod. Shock	Heavy Shock
	Occasional 1/2 hr. /day	0.50	0.80	1.25
Electric Motor, Steam Turbine	Intermittent 3 hrs/day	0.80	1.00	1.50
or Hydraulic Motor	Over 3 hrs. up to 10 hrs/day	1.00	1.25	1.75
	Over 10 hrs/day	1.25	1.50	2.00



THREE-WAY CROWN GEAR DRIVES



Dimensions

1:1 Ratio

To obtain opposite shaft rotation for shafts 2 & 3 as shown, install (invert) Crown Drive with grease plug down.

Model	Α	В	С	D	E	F	G	G1	Н	I	J	к	L
C139801	0.375	0.63	4.06	3.66	1.41	2.19	0.66	0.66	0.221 dia.	1.50	0.166 dia.	0.50	0.66
C157806	0.500	1.00	5.75	4.94	1.88	2.88	0.88	0.88	0.281 dia.	1.75	0.265 dia.	0.56	0.81
C109806	0.625	1.50	7.00	6.19	2.00	3.25	1.13	1.13	0.281 dia.	2.13	0.265 dia.	0.69	1.13
C209806	0.750	1.75	9.25	7.94	2.88	4.38	1.38	1.38	0.344 dia.	2.63	0.328 dia.	0.81	1.38
C803806	1.000	2.75	12.00	11.00	3.25	6.00	1.75	2.75	0.406 dia.	4.00	3/8-16**	1.50	1.50

2:1 Ratio

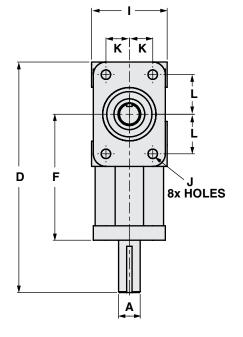
Model	Α	В	С	D	E	F	G	G1	Н	I	J	к	L
C135801	0.375	0.63	4.06	3.66	1.41	2.19	0.66	0.66	0.221 dia.	1.50	0.166 dia.	0.50	0.66
C155806	0.500	1.00	5.75	4.94	1.88	2.88	0.88	0.88	0.281 dia.	1.75	0.265 dia.	0.56	0.81
C105806	0.625	1.50	7.00	6.19	2.00	3.25	1.13	1.13	0.281 dia.	2.13	0.265 dia.	0.69	1.13
C205806	0.750	1.75	9.25	7.94	2.88	4.38	1.38	1.38	0.344 dia.	2.63	0.328 dia.	0.81	1.38
C805806	1.000	2.75	12.00	11.00	3.25	6.00	1.75	2.75	0.406 dia.	4.00	3/8-16**	1.50	1.50

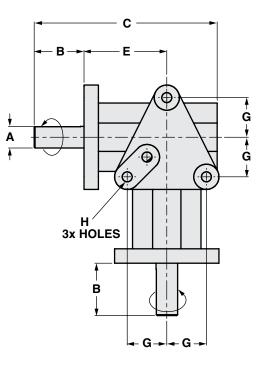
**Tapped hole, .81" deep.

Keyway Dimensions

Units with 3/8 inch dia. shafts 1/32 Flat x 1/2 long Units with 1/2 inch dia. shafts $1/8 \times 1/16 \times 7/8$ Units with 5/8 inch dia. shafts $3/16 \times 3/32 \times 1-3/8$ Units with 3/4 inch dia. shafts $3/16 \times 3/32 \times 1-1/2$ Units with 1 inch dia. shafts $1/4 \times 1/8 \times 2$

TWO-WAY CROWN GEAR DRIVES





Dimensions

1:1 Ratio

Model	Α	В	С	D	E	F	G	н	I	J	К	L
C138801	0.375	0.63	3.16	3.66	1.41	2.19	0.66	0.221 dia.	1.50	0.166 dia.	0.50	0.66
C156806	0.500	1.00	4.38	4.94	1.88	2.88	0.88	0.281 dia.	1.75	0.265 dia.	0.56	0.81
C108806	0.625	1.50	4.88	6.19	2.00	3.25	1.13	0.281 dia.	2.13	0.265 dia.	0.69	1.13
C208806	0.750	1.75	6.38	7.94	2.88	4.38	1.38	0.344 dia.	2.63	0.328 dia.	0.81	1.38

2:1 Ratio

Model	Α	В	С	D	E	F	G	Н	I	J	к	L
C134801	0.375	0.63	3.16	3.66	1.41	2.19	0.66	0.221 dia.	1.50	0.166 dia.	0.50	0.66
C154806	0.500	1.00	4.38	4.94	1.88	2.88	0.88	0.281 dia.	1.75	0.265 dia.	0.56	0.81
C104806	0.625	1.50	4.88	6.19	2.00	3.25	1.13	0.281 dia.	2.13	0.265 dia.	0.69	1.13
C204806	0.750	1.75	6.38	7.94	2.88	4.38	1.38	0.344 dia.	2.63	0.328 dia.	0.81	1.38

Keyway Dimensions

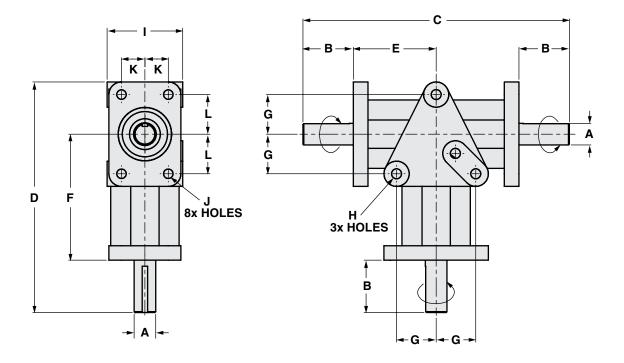
The right to make engineering refinements on all products is reserved. Dimensions and other details subject to change. When dimensions are critical, detailed drawings should be obtained from the factory. Dimensions are in inches.

www.zero-max.com Phone 800.533.1731 763.546.4300 Fax 763.546.8260



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COUNTER-ROTATING **CROWN** GEAR DRIVES



Dimensions

1:1 Ratio

Model	Α	В	С	D	E	F	G	н	I	J	к	L
C130801	0.375	0.63	4.06	3.66	1.41	2.19	0.66	0.221 dia.	1.50	0.166 dia.	0.50	0.66
C150806	0.500	1.00	5.75	4.94	1.88	2.88	0.88	0.281 dia.	1.75	0.265 dia.	0.56	0.81
C100806	0.625	1.50	7.00	6.19	2.00	3.25	1.13	0.281 dia.	2.13	0.265 dia.	0.69	1.13

2:1 Ratio

Model	Α	В	с	D	E	F	G	н	I	J	К	L
C151806	0.500	1.00	5.75	4.94	1.88	2.88	0.88	0.281 dia.	1.75	0.265 dia.	0.56	0.81
C101806	0.625	1.50	7.00	6.19	2.00	3.25	1.13	0.281 dia.	2.13	0.265 dia.	0.69	1.13

NOTE: The suffix 806 designates units having Standard KEYWAYS.

IIIII ZERO-MAX



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C139801								
3 way	: 1 to 1 : 3/8	" shaft						
AngularRatedRatedvelocityPowerTorque								
RPM	H.P.	In. Lbs.						
100	0.04	25						
200	0.08	25						
300	0.12	25						
400	0.16	25						
500	0.20	25						
1000	0.38	24						
2000	0.67	21						
Ultimate static	torque 160	in. Ibs.						

calculated on 1,000 cycle basis.

Γ

3 Way

3 Way

Angular

velocity

RPM

100

200

300

400

500

Г

C130801 (Counter Rotating)									
3 way : 1 to 1 : 3/8" shaft									
Angular velocity	Rated Torque*								
RPM	H.P.	In. Lbs.							
100	0.05	32							
200	0.10	32							
300	0.14	29							
400	0.18	28							
500	0.22	28							
1000	0.42	26							
2000	0.75	24							

Ultimate static torque 170 in. lbs. calculated on 1,000 cycle basis.

* This is the maximum torque that can

be shared by both shafts at once.

	C157806								
3 way : 1 to 1 : 1/2" shaft									
Angular velocity	Rated Power	Rated Torque							
RPM	H.P.	In. Lbs.							
100	0.07	46							
200	0.14	46							
300	0.22	46							
400	0.29	46							
500	0.36	45							
1000	0.71	45							
2000	1.27	40							

Ultimate static torque 275 in. lbs. calculated on 1,000 cycle basis.

C209806

3 way : 1 to 1 : 3/4" shaft

Rated

Power

H.P.

0.30

0.56

0.81

1.06

1.33

Rated

Torque

In. Lbs.

189

177

171

167

167

Ultimate static torque 330 in. lbs. calculated on 1,000 cycle basis. * This is the maximum torque that can

C150806 (Counter Rotating) 3 way : 1 to 1 : 1/2" shaft

Rated

Power

H.P.

0.08

0.16

0.25

0.33

0.41

0.75

1.37

Rated

Torque*

In. Lbs.

50

50

50

50

50

47

43

Angular

velocity

RPM

100

200

300 400

500

1000

2000

be shared by both shafts at once.

C803806

C109806									
3 way : 1 to 1 : 5/8" shaft Angular Rated Rated									
velocity RPM	Power H.P.	Torque In. Lbs.							
100	0.16	101							
200	0.32	101							
300	0.47	99							
400	0.62	98							
500	0.75	95							
1000	1.37	87							
2000	2.43	77							

Ultimate static torque 610 in. lbs. calculated on 1,000 cycle basis.

C100806 (Counter Rotating)				
3 way	: 1 to 1 : 5/8	" shaft		
Angular Rated Rated velocity Power Torque*				
RPM	H.P.	In. Lbs.		
100	0.17	107		
200	0.30	95		
300	0.45	94		
400	0.60	94		
500	0.75	94		
1000	1.37	87		
2000	2.50	79		

Ultimate static torque 630 in. lbs. са *T s

1000 2.33 147 2000 4.25 134

3 way : 1 to 1 : 1" shaft Angular Rated Rated velocity Power Torque RPM H.P. In. Lbs. 100 1.00 630 200 1.87 591 300 2.75 578 525 400 3.33 500 4.12 520 1000 7.75 488 2000 13.00 410

Ultimate static torque 1400 in. lbs. calculated on 1,000 cycle basis.

Ultimate static torque 5100 in. lbs. calculated on 1,000 cycle basis.

	C135801					
	3 way :	2 to 1 : 3/	'8" shaft			
Angular	Angular velocity Rated Torque					
Shaft 1	Shaft 2	Power	Shaft 1	Shaft 2		
RPM	RPM	H.P.	In. Lbs.	In. Lbs.		
100	50	0.02	11	22		
200	100	0.04	11	22		
300	150	0.06	11	22		
400	200	0.07	11	22		
500	250	0.09	10	21		
1000	500	0.16	10	20		
2000	1000	0.30	9	18		

Ultimate static torque 60 in. lbs. calculated on 1,000 cycle basis.

lculated on 1,000 cycle basis.	
his is the maximum torque that can b hared by both shafts at once.	e

3	Way	
-		

	C155806				
	3 way :	2 to 1 : 1/	2" shaft		
Angular	velocity	Rated	Rated	Torque	
Shaft 1	Shaft 2	Power	Shaft 1 Shaft		
RPM	RPM	H.P.	In. Lbs.	In. Lbs.	
100	50	0.03	20	39	
200	100	0.06	20	39	
300	150	0.09	20	39	
400	200	0.13	20	39	
500	250	0.16	20	39	
1000	500	0.30	19	37	
2000	1000	0.54	17	34	

Ultimate static torque 130 in. lbs. calculated on 1,000 cycle basis.

C151806 (Counter Rotating) 3 way : 2 to 1 : 1/2" shaft Angular velocity Rated Torque Rated Shafts Shafts Power Shaft 1 Shaft 1 2&3 2 and 3' RPM **RPM** H.P. In. Lbs. In. Lbs. 100 0.02 32 50 16 100 0.05 32 200 16 300 150 0.08 16 32 400 200 0.11 16 32 500 250 0.14 16 32 1000 500 0.25 15 30 2000 1000 0.50 15 30

Ultimate static torque 116 in. lbs. calculated on 1,000 cycle basis.

* This is the maximum torque that can be shared by both shafts (2 and 3) at once.



	C105806				
	3 way :	2 to 1 : 5/	'8" shaft		
Angular	velocity	Rated	Rated	Torque	
Shaft 1	Shaft 2	Power	Shaft 1	Shaft 2	
RPM	RPM	H.P.	In. Lbs.	In. Lbs.	
100	50	0.06	34	68	
200	100	0.11	34	68	
300	150	0.16	34	68	
400	200	0.22	34	68	
500	250	0.27	34	68	
1000	500	0.51	32	64	
2000	1000	0.92	29	58	

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Ultimate static torque 210 in. lbs. calculated on 1,000 cycle basis.

3 Way

C101806 (Counter Rotating)					
	3 way : 2 to 1 : 5/8" shaft				
Angular	velocity	Patad	Rated	Torque	
Shaft 1	Shafts 2 & 3	Power	Rated Power Shaft 1		
RPM	RPM	H.P.	In. Lbs.	In. Lbs.	
100	50	0.05	31	62	
200	100	0.08	30	60	
300	150	0.12	28	56	
400	200	0.18	28	56	
500	250	0.21	26	52	
1000	500	0.37	24	48	
2000	1000	0.75	23	46	

Ultimate static torque 192 in. lbs. calculated on 1,000 cycle basis.

This is the maximum torque that can be shared by both shafts (2 and 3) at once.

3 Way				
C805806				
	3 way	: 2 to 1 : 1	" shaft	
Angular	velocity	Rated	Rated	Torque
Shaft 1			Shaft 2	
RPM RPM H.P. In. Lbs. In. L				In. Lbs.
100	50	0.38	236	472
200	100	0.75	236	472
300	150	1.00	210	420
400	200	1.33	210	420
500	250	1.67	210	420
1000	500	3.24	204	408
2000	1000	5.75	181	362

Ultimate static torque 2170 in. lbs. calculated on 1,000 cycle basis.

C138801				
2 way :	1 to 1 : 3/	8" shaft		
Angular Rated Rated velocity Power Torque				
RPM	H.P.	In. Lbs.		
100	0.04	25		
200	0.08	25		
300	0.12	25		
400	0.16	25		
500	0.20	25		
1000	0.38	24		
2000	0.67	21		

calculated on 1,000 cycle basis.

Angular velo

100

150

200

250

500

1000

Shaft 1

RPM

100

200

300

400

500

1000

2000

cycle basis.

Ultimate static torque 275 in. lbs. calculated on 1,000 cycle basis.

C108806

C205806 3 way : 2 to 1 : 3/4" shaft

> Rated Power

> > H.P.

0.11

0.22

0.33

0.44

0.55

0.99

1.75

Ultimate static torque 540 in. lbs. calculated on 1,000

Angular

velocity

RPM

100

200

300

400

500

1000

2000

Rated Torque

Shaft 2

In. Lbs.

140

140

140

140

140

124

110

Rated

Torque

In. Lbs.

101

101

99

98

95

87 77

Shaft 1

In. Lbs.

70

70

70

70

70

62

55

2 way : 1 to 1 : 5/8" shaft

Rated

Power

H.P.

0.16

0.32

0.47

0.62

0.75

1.37

2.43

Angular velocity

Shaft 1

RPM

100

200

300

400

500

1000

2000

cycle basis.

Rated

Torque

In. Lbs

46

46

46

46

2 Way

C156806

2 way : 1 to 1 : 1/2" shaft

Rated

Power

H.P.

0.07

0.14

0.22

0.29

Angular

velocity

RPM

100

200

300

400

Shaft 2

RPM

50

100

150

200

250

500

1000

500 0.36 45 1000 0.71 45 2000 1.27 40

Ultimate static torque 610 in. lbs. calculated on 1,000 cycle basis.

C208806					
2 wa	y : 1 to 1 : 3/4"	shaft			
Angular velocity	Sated Power Bated Lording				
RPM	H.P.	In. Lbs.			
100	0.30	189			
200	0.56	177			
300	0.81	171			
400	1.06	167			
500	1.33	167			
1000	2.33	147			
2000	4.25	134			

Ultimate static torque 1400 in. lbs. calculated on 1,000 cycle basis.



7

22

22

22

21 20

18

2 Way

0.04

0.06

0.07

0.09

0.16

0.30

Ultimate static torque 60 in. lbs. calculated on 1,000

2 1109					
C134801					
2 way : 2 to 1 : 3/8" shaft					
velocity	Rated	Rated Torque			
Shaft 2	Power	Shaft 1 Shaft 2			
RPM	H.P.	In. Lbs.	In. Lbs.		
50	0.02	11	22		

11

11

11

10

10

9

C154806				
2 way :	2 to 1 : 1/	2" shaft		
Angular velocity Rated Torque				
Shaft 2	Power	Shaft 1	Shaft 2	
RPM	H.P.	In. Lbs.	In. Lbs.	
50	0.03	20	39	
100	0.06	20	39	
150	0.09	20	39	
200	0.13	20	39	
250	0.16	20	39	
500	0.30	19	37	
1000	0.54	17	34	
	velocity Shaft 2 RPM 50 100 150 200 250 500	2 way : 2 to 1 : 1/ velocity Rated Shaft 2 Power RPM H.P. 50 0.03 100 0.06 150 0.09 200 0.13 250 0.16 500 0.30	2 way: 2 to 1: 1/2" shaft velocity Rated Rated Shaft 2 Power Shaft 1 RPM H.P. In. Lbs. 50 0.03 20 100 0.06 20 150 0.09 20 200 0.13 20 200 0.16 20 500 0.30 19	

Ultimate static torque 130 in. lbs. calculated on 1,000 cycle basis.

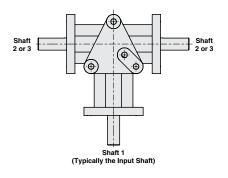
				2			
C104806							
	2 way : 2 to 1 : 5/8" shaft						
Angular	velocity	Rated	Rated Torque				
Shaft 1	Shaft 2	Power	Shaft 1	Shaft 2			
RPM	RPM	H.P.	In. Lbs.	In. Lbs.			
100	50	0.06	34	68			
200	100	0.11	34	68			
300	150	0.16	34	68			
400	200	0.22	34	68			
500	250	0.27	34	68			
1000	500	0.51	32	64			
2000	1000	0.92	29	58			

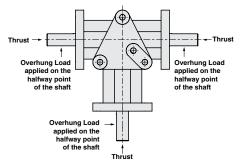
Wo	Way								
	C204806								
	2 way : 2 to 1 : 3/4" shaft								
	Angular	velocity	Rated	Rated Torque					
	Shaft 1	Shaft 2	Power	Shaft 1	Shaft 2				
	RPM	RPM	H.P.	In. Lbs.	In. Lbs.				
	100	50	0.11	70	140				
	200	100	0.22	70	140				
	300	150	0.33	70	140				
	400	200	0.44	70	140				
	500	250	0.55	70	140				
	1000	500	0.99	62	124				
	2000	1000	1.75	55	110				

Ultimate static torque 210 in. lbs. calculated on 1,000 cycle basis.

Ultimate static torque 540 in. lbs. calculated on 1,000 cycle basis.

	Overhung Load Capacity (at mid-shaft)			Thrust Load Capacity				
ltem Number	Shaft 1		Shafts 2 and 3		all shafts		Net Weight each	
	Pounds of force	Newtons	Pounds of force	Newtons	Pounds of force	Newtons	Pounds	Kilograms
C100806	50.00	222.41	33.00	146.79	80.00	355.86	3.25	1.47
C101806	50.00	222.41	34.00	151.24	80.00	355.86	3.25	1.47
C104806	50.00	222.41	50.00	222.41	100.00	444.82	2.75	1.25
C105806	50.00	222.41	50.00	222.41	100.00	444.82	1.75	0.79
C108806	50.00	222.41	50.00	222.41	100.00	444.82	2.75	1.25
C109806	50.00	222.41	50.00	222.41	100.00	444.82	3.00	1.36
C130801	25.00	111.21	16.00	71.17	40.00	177.93	0.87	0.39
C134801	25.00	111.21	25.00	111.21	50.00	222.41	0.75	0.34
C135801	25.00	111.21	25.00	111.21	50.00	222.41	0.85	0.39
C138801	25.00	111.21	25.00	111.21	50.00	222.41	0.75	0.34
C139801	25.00	111.21	25.00	111.21	50.00	222.41	0.85	0.39
C150806	35.00	155.69	24.00	106.76	56.00	249.10	2.13	0.97
C151806	35.00	155.69	24.00	106.76	56.00	249.10	2.13	0.97
C154806	35.00	155.69	35.00	155.69	70.00	311.38	1.75	0.79
C155806	35.00	155.69	35.00	155.69	70.00	311.38	2.00	0.91
C156806	35.00	155.69	35.00	155.69	70.00	311.38	1.75	0.79
C157806	35.00	155.69	35.00	155.69	70.00	311.38	2.00	0.91
C204806	100.00	444.82	100.00	444.82	200.00	889.64	6.50	2.95
C205806	100.00	444.82	100.00	444.82	200.00	889.64	7.00	3.18
C208806	100.00	444.82	100.00	444.82	200.00	889.64	6.50	2.95
C209806	100.00	444.82	100.00	444.82	200.00	889.64	7.00	3.18
C803806	160.00	711.72	160.00	711.72	320.00	1423.43	18.00	8.16
C805806	160.00	711.72	160.00	711.72	320.00	1423.43	18.00	8.16







New Zero-Max Configurable 3D CAD Downloads. **www.zero-max.com**



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ServoClass[®] Couplings

Designed for demanding servomotor applications. Zero backlash, high torsional stiffness coupling. Features flexible metal discs and keyless clamp-type mounting hubs. Couplings are RoHS compliant.



ETP® Shaft Locking Connections

Designed for quick, easy and accurate assembly of mounted shaft components. Both inch and metric bore connections are available from stock.



CD[®] Couplings

These high performance couplings out last bellows and steel disc design couplings. The unique design of the composite disc enables the CD Couplings[®] to withstand punishing applications and deliver high precision performance.



Roh'lix[®] Linear Actuators

Roh'Lix[®] Linear Actuators convert rotary motion into precise linear motion. Available in five models. Roh'Lix[®] actuators have thrust ratings from 5 to 200 lbs. All models feature built in overload protection.



Schmidt[®] Offset Couplings are designed to handle high amounts of parallel offset up to 17.00". Standard models with torque capacities up to 459,000 in-lbs.



Adjustable Speed Drive

Easy to install and maintenance free. Zero-Max Drives offer infinitely variable speeds from 0 rpm to 1/4 of input rpm. 5 models with torque ranges from 12 in-lbs to 200 in-lbs.



Overload Safety Couplings Torq-Tender® Couplings provide reliable overload protection in any mechanical power transmission system. Torque ranges from 2 to 3000 in-lbs.



Crown[®] Gear Drives

Crown[®] Gear Drives are available with 1:1 and 2:1 ratios. High quality AGMA class 10 spiral bevel gears. Stainless steel shafts and aluminum housings are standard on all Crown[®] Gear Drives.



Control-Flox[®] Couplings Control-Flex[®] Couplings are zero backlash couplings designed for encoder and instrumentation type applications.



OHLA[®] Overhung Load Adapter

OHLA® Overhung Load Adapters are designed to eliminate radial and axial loads from a hydraulic pump or motor. 20 models available for mounts from SAE A to SAE F.

Warranty. Zero-Max, Inc. the manufacturer, warrants that for a period of 12 months from date of shipment it will repair, or at its option, replace any new apparatus which proves defective in material or workmanship, or which does not conform to applicable drawings and specifications approved by the manufacturer. All repairs and replacements shall be F.O.B. factory. All claims must be made in writing to the manufacturer. In no event and under no circumstances shall manufacturer be liable for (a) damages in shipment; (b) failures or damages due to misuse, abuse, improper installation or abnormal conditions of temperature, dirt, water or corrosives; (c) failures due to operation, intentional or otherwise, above rated capacities, and (d) non-authorized expenses for removal, inspection, transportation, repair or rework. Nor shall manufacturer ever be liable for consequential and incidental damages, or in any amount greater than the purchase price of the apparatus. The apparatus. Zero Max, Inc. reserves the right to discontinue models or to change specifications at any time without notice. No discontinuance or change shall create any liability on the part of Zero-Max, in: in respect to its products in the hands of customers or products on order not incorporating such changes even though delivered after any such change. This warranty is in LIEU OF ALL OTHER WARRANTES, EXPRESS OR IMPLIED, INCLUDING (BUT NOT LIMITED TO) ANY IMPLIED WARRANTES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE TERMS OF THIS WARRANTY CONSTITUTE ALL BUYER'S OU LEAND EXCLUSIVE REMEDY, AND ARE IN LIEU OF ANY GIGHET TO RECOVER FOR NEGLIGENCE, BREACH OF WARRANTY, STRICT TORT LIABILITY OR UPON ANY OTHER THEORY. Any legal proceedings arising out of the sale or use of this apparatus must be commenced within 18 months of the date of purchase. CAUTION: Rotting equipment must be guarded. Also refer to OSHA specifications and recommendations. Zero-Max, CD[®], EIP[®], ServoClass[®], Torq-Tender[®], Control-Flex[®], Posi-Lok[®], Roh'Lix[®], Cro

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