

65 SERIES — HEAVY-DUTY SWING DRIVE

Input Mount	Input Spline
SAE "A" (2 & modified 4 bolt)	13T 16/32 DP Spline
SAE "B" (2 bolt)	SAE 1" 6B Spline
SAE "C" (2 & 4 bolt)	14T 12/24 DP Spline
	15T 16/32 DP Spline

Output Shafts
23T 12/24 DP Spline
2.00 Dia. X 3/8 key
2.00 Dia. X 1/2 key
2.25 Dia. X 1/2 key
3.00 X 3/4 key
Custom option

65,000 in.-lb.
32,000 in.-lb.
contact factory
25,000 lb.

maximum intermittent
maximum continuous
peak load rating
maximum radial load (note 2)

Dimensional Reference Table						
Model	Mounting Bolt Pattern	Flange	A	B	C	D*
6E	4 Holes, 5.00 X 10.00	Rectangular	11	10	6	6.78 - 7.16

*Single stage. Add 1.36 for each additional stage.

Gear Ratios	
4, 6, 19, 26, 33, 36, 45, 86, 117, 146, 159, 199, 216, 270	



50 SERIES — INDUSTRIAL DRIVE

Input Mount	Input Spline
SAE "A" (2 & modified 4 bolt)	13T 16/32 DP Spline
SAE "B" (2 bolt)	SAE 1" 6B Spline
SAE "C" (4 bolt)	14T 12/24 DP Spline (3)
SAE "C" (2 bolt)	15T 16/32 DP Spline
	1.00 Dia X 1/4 Key (3)

Output Shafts
2.00 Dia. X 3/8 key
23T 12/24 DP Spline
2.125 Dia X 1/2 key
2.00 Dia. X 1/2 key
2.00 Hex Drive
2.00 Dia. X 1/2 key (internal)
2.25 Dia. X 1/2 key (LG50 only)
16T 8/16 DP Spline (50LG only)
17T 12/24 DP Spline (50LG only)
Custom option

50,000 in.-lb.
25,000 in.-lb.
contact factory
23,000 lb.

maximum intermittent
maximum continuous
peak load rating
maximum radial load (note 2)

Dimensional Reference Table						
Model	Mounting Bolt Pattern	Flange	A	B	C	D
50KA	4 Holes, 9.50 Dia. BC	Round	11.00	8.25	7.88	5.4"
50KE	4 Holes, 5.00 X 10.00	Rectangular	11.00	8.25	6.00	6.28"
50KF	6 X 3/4-10 on 6.00 BC	Flangeless	N/A	8.25	5.00	6.96"
50LG	4 Holes, 6.375 BC	SAE C 4 bolt	8.25	8.25	5.00	8.20"
50LQ	4 Holes, 9.50 Dia. BC	Round	11.00	8.25	7.88	5.4"

*Single stage. Add 1.29 for each additional stage.

Gear Ratios	
4, 5, 16, 20, 25, 68, 84, 104, 129	



20/28 SERIES — HEAVY-DUTY SWING DRIVE

Input Mount	Input Spline
SAE "A" (2 & modified 4 bolt)	13T 16/32 DP Spline
SAE "B" (2 bolt)	SAE 1" 6B Spline
	14T 12/24 DP Spline (3)
	15T 16/32 DP Spline
	1.00 Dia X 1/4 Key (3)

Output Shafts	Output Shafts
20B/28B (Male)	20P/28P (Female)
2.00 Dia. X 3/8 key	1.50 Dia. X 3/8 key
2.00 Dia. X 1/2 key	2.00 Dia. X 1/2 key
2.25 Dia X 1/2 key	Custom option
23T 12/24 DP Spline	Custom option
Custom option	

20 Series
25,000 in.-lb.
12,000 in.-lb.
contact factory
23,000 lb.

maximum intermittent
maximum continuous
peak load
maximum radial load (note 2)

28 Series
50,000 in.-lb.
25,000 in.-lb.
contact factory
23,000 lb.

maximum intermittent
maximum continuous
peak load
maximum radial load (note 2)

Dimensional Reference Table						
Model	Mounting Bolt Pattern	Shaft	A	B	C	D
20B	9 Holes, 9.00 Dia. BC	Male	7.88 Sq	7.88	4.63	4.23"
28B	4 Holes, 9.00 Dia. BC	Male	7.88 Sq	7.88	4.63	5.18"
20P	4 Holes, 9.00 Dia. BC	Female	7.88 Sq	7.88	6.00	4.23"
28P	9 Holes, 9.00 Dia. BC	Female	7.88 Sq	7.88	6.00	5.18"

*Single stage. Add 1.29 for each additional stage.

Gear Ratios	
4, 5, 16, 20, 25, 68, 84, 104, 129	



Other Eskridge Products...

Multiple Disc Brakes

		Torque Rating (In-Lbs.)
90B	SAE "B" Output	1,000 - 4,800
90BA	SAE "B" Output (Adjustable)	700 - 4,800
92B	SAE "B" (Low Profile)	800 - 2,100
98	for Thru-Shaft Motors	1,650 - 6,200
98C	SAE "C" Output	3,500 - 16,000
98W	(Wheel Brake)	8,000 - 16,000
98D	SAE "D" Output	8,500 - 25,000

Planetary Auger / Anchor Drives

		Torque Rating (FT-Lbs.)
D50 Series		5,000
76 Series 2-Speed gear drive, mechanical shift		12,000
77 Series Single Speed		12,000
78 Series Hydrasync® Two-Speed		12,000
75 Series Hydrasync® Two-Speed		20,000
79 Series 2-Speed gear drive, PowerShift™		12,000
D600 High Performance		50,000
D1000 High Performance		83,000

Planetary Life Analysis

Eskridge has developed a proprietary computer model that can be used to analyze a variety of conditions and estimate the composite gear drive life based on your input parameters. See www.eskridgeinc.com or your Eskridge distributor for more details on analyzing your conditions.



Electronic Catalog

Learn more about all the fine products Eskridge has to offer. To get all the technical details on our planetary gear drive & multiple disc brakes, tour our website, www.eskridgeinc.com or request our electronic catalog (CD format). Remember, Eskridge is committed to meeting the needs of your company's specific applications!

Here are a few examples of applications where we have helped our customers:

Severe Service Conditions

A leading rock crusher manufacturer began developing improvements to cone crushers. They wanted to allow adjustments to the size of the aggregate material produced without interrupting production. They relied upon Eskridge to solve problems experienced on early prototypes. In this application, our planetary gear drives were used to adjust the distance between the rock crushing cones, thus creating an "adjust on the fly" capability. Special considerations included heavy vibrations & impact loads as well as a highly abrasive operating environment. Eskridge can solve your severe service problems, too.

Unique output shaft requirements

Offloading live bed trucks is not only a demanding application, but also one where innovation in design was used to reduce cost and improve quality. We worked closely with one of our customers to extend the output shaft, allowing it to span the width of the belt. This eliminated several components and alignment problems.

Backdriving — (demolition shears)

On demolition shears mounted to excavators, steel and concrete is gripped, then sheared when hydraulic pressure is applied. In this application, as the shearing action takes place, forces reposition the motor and gear drive that is used to rotate the shear. This back driving action can destroy components if not properly addressed. Eskridge has the experience to assist in resolving these types of back driving problems.

Backdriving — (swing drives)

Planetary gear drives are commonly used to provide efficient power transmission for boom rotations. When decelerating the load, unexpected loads can be experienced due to backdriving. Eskridge has the experience to assist in review of hydraulic system design to avoid problems commonly encountered in this application.



For more information regarding planetary drives and other innovative products feel free to contact us at:
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