

# D\*31 SERIES

## SPECIFICATIONS

**Input Torque:** 2,205 ft-lb (max)

**Horsepower:** 1,050 (max)

**Maximum Speed:** See Ratio Chart

**Approximate Weight:** 460 lbs (gearbox only)

**Oil Capacity Approximately 7 qts**  
(may vary due to output orientation and gear ratio)

**(Ratings Based on 1:1 Ratio, 2500 rpm and 2000 hrs B10 Life)**

*Specifications are subject to change without notice.*

## FEATURES

- **Dipstick Included for Maintaining Proper Fluid Level**
- **Rotation Opposite Input**
- **Full Fillet Gears for Optimum Strength**
- **Large Diameter Ball Bearings for Higher Speeds and Longer Life**
- **Heavy Duty Drive Plate**
- **Output Options: Spline, Keyed, Flange**
- **Input Options: Torsional Coupling**

## AVAILABLE OPTIONS

CLUTCH HOUSING DIMENSIONS REF SAE J620 AND SAE J617								
SAE NO.	A	B	C	D	H	P	J	DD
3	16.125	17.75	16.87	7/16	12	3/8	15.62	10.62
2	17.625	19.25	18.37	7/16	12	3/8	15.62	10.62
1	20.125	21.75	20.87	1/2	12	7/16	17.62	12.62
0	25.500	28.00	26.75	9/16	16	1/2	17.62	12.62

AVAILABLE GEAR RATIOS OUTPUT ROTATION OPPOSITE INPUT		
GEAR RATIO U-SPEED INCREASING D-SPEED DECREASING	MAX. INPUT SPEED (RPM)	
	U	D
1.02 UD	2450	2500
1.14 UD	2190	2500
1.28 UD	1950	2500
1.39 UD	1800	2500
1.56 UD	1800	2800
1.69 UD	1775	3000

DRIVE PLATE DIMENSIONS REF SAE J620					
NOMINAL DRIVE PLATE DIA.	BB	E	F	G	CC
10	12.375	7/16	8	2.12	11.62
11 1/2	13.875	7/16	8	1.56	13.12
14	18.375	9/16	8	1.00	17.25
18	22.500	11/16	6	.62	21.37

PUMP FLANGE DIMENSIONS REF SAE J744						*ADAPTER WIDTH	30 DEG. INVOLUTE SPLINE	DIST TO SHAFT END	
SAE SIZE	NO. BOLTS (V)	PILOT DIA. (W)	BOLT SIZE (X)	B.C. DIA. (Y)	HOLE DEPT (EE)	(Z)	NO TEETH	PITCH	(LL)
A	2	3.250	3/8-16	4.18	.62	.31	9	16/32	3/8
B	2	4.000	1/2-13	5.75	.56	.56	13	16/32	5/8
B	4	4.000	1/2-13	5.00	1.00	.56	13	16/32	5/8
BB	2	4.000	1/2-13	5.75	.56	.56	15	16/32	5/8
BB	4	4.000	1/2-13	5.00	1.00	.56	15	16/32	5/8
C	2	5.000	5/8-11	7.12	.75	.75	14	12/24	23/32
C	4	5.000	1/2-13	6.37	.75	.75	14	12/24	23/32
CC	2	5.000	5/8-11	7.12	.75	.75	17	12/24	23/32
CC	4	5.000	1/2-13	6.37	.75	.75	17	12/24	23/32
D	2	6.000	3/4-10	9.00	1.00	0.00	13	8/16	3/4
D	4	6.000	3/4-10	9.00	1.00	0.00	13	8/16	3/4
E	4	6.500	3/4-10	12.50	.87	.87	13	8/16	25/32
F	4	7.000	1-8	13.78	1.06	1.06	15	8/16	1 15/32

ENGINE ADAPTER DIMENSIONS REF SAE J617										
SAE NO.	A	B	C	D	H	J	P	DD	GG	UNIT WT
3	16.125	17.75	16.67	7/16	12	7.50	1/2	2.125	1 1/4	295
2	17.625	19.25	18.37	7/16	12	7.50	1/2	2.125	1 1/4	310
1	20.125	21.75	20.87	1/2	12	7.50	1/2	2.125	1 1/4	320
0	25.500	28.00	26.75	9/16	16	8.00	1	2.625	1 3/4	390

CLUTCH INSTALLATION DATA															
SAE HSG SIZE	CLUTCH MODEL	MAX CLUTCH SPEED (RPM)	WORKING TORQUE (LB-FT)	BB	CC	E	FF BOLT FLANGE THICKNESS	G	L	Q DEG.	S	T	U	TORQUE (LB-IN) ON OPERATING SHAFT REQ'D TO ENGAGE CLUTCH	UNIT WT. (LBS)
2 or 3	P111	2850	455	13.875	13.12	7/16	088	1.56	2.835	15 1/2	15.38	3	3 3/16	1540	405
2 or 3	P211	2850	910	13.875	13.12	7/16	1.85	1.56	2.835	15 1/2	15.38	3 3/4	4 3/16	1930	415
0 or 1	P114	2400	810	18.375	17.25	9/16	0.50	1.00	3.150	18	23.38	4 1/2	6 3/8	3150	535
0 or 1	P214	2500	1620	18.375	17.25	9/16	0.50	1.00	3.150	18	23.38	4 1/2	6 3/8	3150	545
0 or 1	P314	2500	2430	18.375	17.25	9/16	0.50	1.00	3.160	18	23.38	4 1/2	7 3/4	3150	560