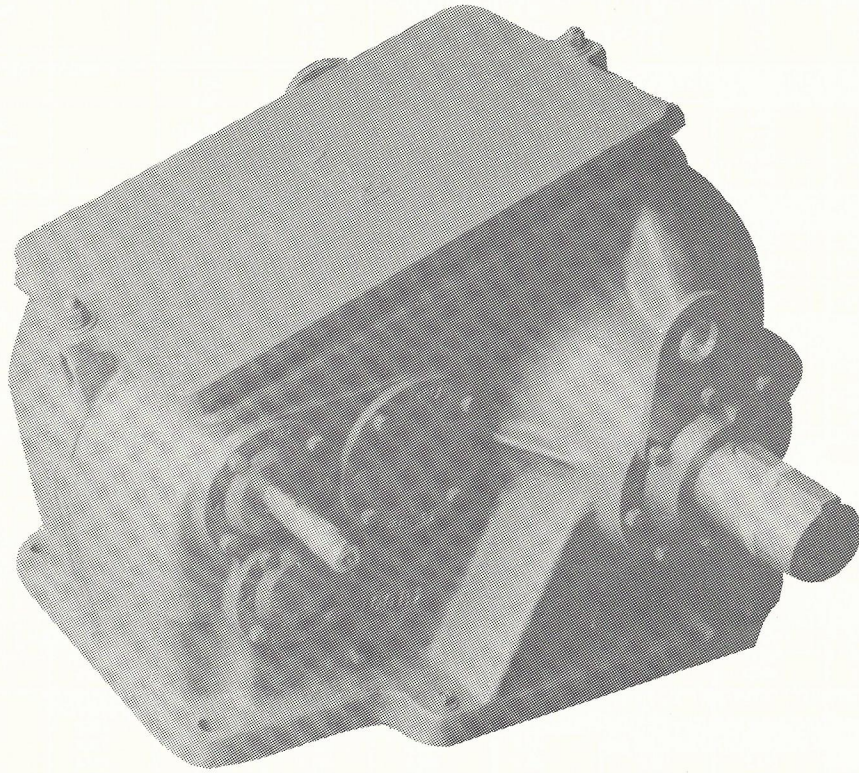


# ALTEN PARALLEL SHAFT SPEED REDUCERS



**QUALITY-PROVEN** in broad spectrum of industrial installations . . . Used in Alten renowned and rugged Oil Field Pumping Units . . . Quantity production resulting in higher value.

**LUBRICATION** . . . Self-adjusting wipers provide positive lubrication to bearings regardless of direction of rotation . . . Gears operate in bath of oil.

**STURDY HOUSING** . . . Rigid high tensile gray iron alloy . . . Rib reinforced . . . Sizes up through 456 use one-piece housings with cover . . . Sizes 990 and larger have split housings . . . Machined on CNC Machining Center . . . assured gear alignment . . . Steel housings available upon request.

**UNEQUALED QUALITY GEARS AND PINIONS** . . . Gears heat treated alloy ductile iron or steel weldment . . . Pinions heat treated alloy steel . . . Helical gearing hobbled and crown shaved . . . Herringbone gears continuous tooth Sykes generated providing archlike contour for reserve tooth strength . . . Rated in accordance with AGMA standards . . . API ratings available upon request.

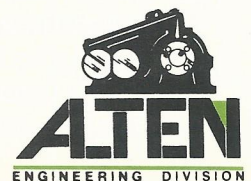
**HEAVY-DUTY ANTI-FRICTION BEARINGS** for all shafts . . . Tapered or straight roller . . . Engineered with ample reserve strength capacity far in excess of AGMA standards.

**BEARINGS IN BEARING CARRIERS** . . . Unique engineering concept in Industrial Speed Reducers . . . Facilitates repair in event of bearing failure . . . Taconite oil seals can be supplied upon request.



## Westerman Companies

www.westermancompanies.com  
245 North Broad Street • P. O. Box 125 • Bremen, Ohio 43107  
(740) 569-4143 Fax (740) 569-4111





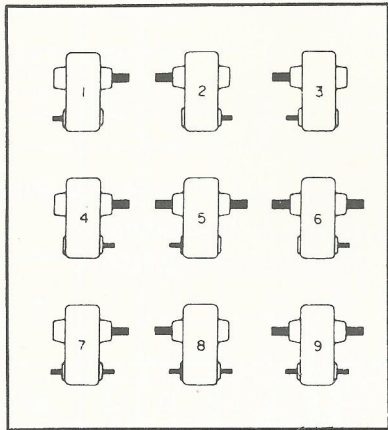
# ALTEN SINGLE REDUCTION PARALLEL SHAFT SPEED REDUCERS

SPEED REDUCER SIZE	INPUT RPM	AGMA MECHANICAL HORSEPOWER RATINGS AT INPUT SPEEDS SHOWN									APPROX. OIL CAPACITY (Gals.)	APPROX. SHIPPING WEIGHT (Lbs.)
		Standard ratios may vary up to $\pm 3\%$ . Consult the Bremen Office for exact ratio information, if required.										
		1.837	2.250	2.752	3.375	4.134	5.062	APPROX. 5.502	6.200	7.59		
SL-6	1750	120.1	92.9	80.8	64.1	49.8	39.7	36.5	See Double Reduction Table	1	165	
	1150	84.8	69.5	58.3	44.8	34.6	27.6	25.3				
	870	66.9	56.5	45.8	35.1	27.1	21.5	19.8				
	720	56.9	47.3	38.8	29.7	22.9	18.2	16.7				
	580	47.1	38.1	32.1	24.5	18.9	15.0	13.7				
400	33.9	26.3	23.0	17.5	13.5	10.6	9.75					
SL-20	1750	261.9	207.0	173.0	135.0	107.0	80.8	72.5	See Double Reduction Table	3 1/2	365	
	1150	185.1	145.7	121.0	94.1	74.4	56.1	50.3				
	870	146.1	114.8	95.3	74.0	58.3	43.8	39.3				
	720	124.2	97.4	80.8	62.5	49.3	37.0	33.1				
	580	102.9	80.6	66.8	51.5	40.6	30.4	27.2				
400	74.1	57.9	45.4	36.8	29.0	21.7	19.4					
SL-30	1750	426.0	350.0	290.0	230.0	173.0	139.0	122.0	See Double Reduction Table	3	565	
	1150	302.0	248.0	204.0	162.0	121.0	96.8	85.1				
	870	234.0	196.0	161.0	127.0	95.4	75.9	66.7				
	720	194.0	167.0	137.0	108.0	80.8	64.2	56.4				
	580	156.0	138.0	113.0	89.4	66.7	52.9	46.4				
400	106.0	100.0	81.7	64.2	47.8	37.8	33.1					
SG-45	1750	497.0	446.0	385.0	337.0	281.0	208.0	176.0	160.0	119.0	3 1/2	700
	1150	371.0	333.0	288.0	251.0	198.0	146.0	123.0	112.0	83.0		
	870	305.0	274.0	237.0	198.0	156.0	115.0	96.8	87.6	64.9		
	720	268.0	240.0	207.0	169.0	132.0	97.3	82.0	74.2	54.9		
	580	226.0	207.0	172.0	139.0	109.0	80.4	67.7	61.2	45.2		
400	156.0	154.0	124.0	101.0	78.6	57.6	48.4	43.7	32.2			
SG-57	1750	900.0	768.0	640.0	521.0	407.0	326.0	275.0	251.0	203.0	5	1,410
	1150	645.0	563.0	456.0	370.0	288.0	229.0	193.0	176.0	142.0		
	870	513.0	488.0	362.0	293.0	227.0	181.0	152.0	138.0	111.0		
	720	439.0	362.0	308.0	249.0	193.0	153.0	129.0	117.0	94.2		
	580	366.0	318.0	256.0	207.0	160.0	127.0	106.0	96.8	77.8		
400	266.0	231.0	186.0	149.0	115.0	91.3	76.4	69.4	55.6			
SG-80	1750	988.0	822.0	655.0	526.0	404.0	346.0	319.0	239.0	177.0	17	2,220
	1150	823.0	708.0	587.0	466.0	373.0	285.0	244.0	224.0	167.0		
	870	657.0	564.0	467.0	369.0	295.0	225.0	192.0	177.0	131.0		
	720	563.0	482.0	398.0	315.0	251.0	191.0	163.0	150.0	111.0		
	580	470.0	402.0	332.0	262.0	208.0	158.0	135.0	124.0	92.0		
400	343.0	293.0	241.0	189.0	150.0	114.0	97.0	89.0	65.9			
SG-114	1750	1018.0	886.0	695.0	557.0	470.0	429.0	311.0	239.0	177.0	20	2,315
	1150	987.0	883.0	760.0	633.0	494.0	394.0	332.0	303.0	219.0		
	870	812.0	727.0	620.0	503.0	391.0	312.0	262.0	238.0	172.0		
	720	712.0	637.0	530.0	429.0	333.0	265.0	223.0	203.0	146.0		
	580	605.0	548.0	442.0	357.0	277.0	220.0	184.0	168.0	120.0		
400	417.0	400.0	318.0	259.0	200.0	159.0	133.0	121.0	86.4			
SG-160	1750	1230.0	964.0	774.0	654.0	597.0	432.0	319.0	239.0	177.0	30	3,185
	1150	1425.0	1265.0	1082.0	880.0	687.0	550.0	463.0	422.0	304.0		
	870	1172.0	1041.0	863.0	700.0	546.0	435.0	366.0	334.0	240.0		
	720	1027.0	914.0	739.0	599.0	466.0	371.0	312.0	284.0	204.0		
	580	849.0	764.0	617.0	499.0	387.0	308.0	259.0	235.0	168.0		
400	586.0	559.0	450.0	363.0	281.0	223.0	187.0	170.0	121.0			
SG-228	1750	1341.0	1162.0	1009.0	864.0	774.0	654.0	597.0	432.0	319.0	30	4,070
	1150	1513.0	1239.0	1103.0	950.0	817.0	699.0	549.0	414.0	304.0		
	870	1196.0	965.0	843.0	718.0	597.0	528.0	435.0	327.0	238.0		
	720	985.0	810.0	713.0	607.0	518.0	450.0	370.0	278.0	204.0		
	580	827.0	701.0	600.0	503.0	423.0	365.0	307.0	230.0	168.0		
400	581.0	473.0	413.0	351.0	298.0	251.0	222.0	186.0	136.0			
SG-320	1750	1969.0	1579.0	1219.0	915.0	867.0	648.0	512.0	387.0	278.0	47	6,675
	1150	2083.0	1843.0	1592.0	1376.0	1127.0	967.0	887.0	687.0	512.0		
	870	1892.0	1617.0	1431.0	1206.0	1056.0	887.0	887.0	687.0	512.0		
	720	1593.0	1372.0	1200.0	1013.0	878.0	747.0	607.0	586.0	436.0		
	580	1344.0	1152.0	1018.0	844.0	735.0	607.0	487.0	487.0	361.0		
400	946.0	858.0	703.0	603.0	510.0	420.0	352.0	352.0	261.0			
SG-456	1750	3251.0	2545.0	2091.0	2165.0	2035.0	1758.0	1382.0	915.0	648.0	86	8,750
	1150	2611.0	2038.0	1671.0	1551.0	1456.0	1255.0	968.0	788.0	544.0		
	870	2138.0	1748.0	1431.0	1235.0	1159.0	990.0	851.0	709.0	544.0		
	720	2738.0	2244.0	1748.0	1431.0	1056.0	880.0	825.0	709.0	544.0		
	580	2301.0	1882.0	1463.0	1196.0	880.0	825.0	709.0	544.0	394.0		
400	1696.0	1383.0	1072.0	874.0	641.0	600.0	514.0	394.0	261.0			
SG-990	1750	3959.0	3244.0	3208.0	2415.0	2941.0	2548.0	2161.0	1546.0	1051.0	110	13,600
	1150	3244.0	2790.0	2209.0	2114.0	1888.0	1456.0	1230.0	968.0	709.0		
	870	2790.0	2343.0	1851.0	1510.0	1383.0	1207.0	1039.0	876.0	637.0		
	720	4826.0	4140.0	3411.0	2790.0	2209.0	1654.0	1445.0	1246.0	1051.0		
	580	4018.0	3488.0	2869.0	2343.0	1851.0	1383.0	1207.0	1039.0	876.0		
400	2771.0	2582.0	2117.0	1724.0	1358.0	1011.0	861.0	757.0	637.0			

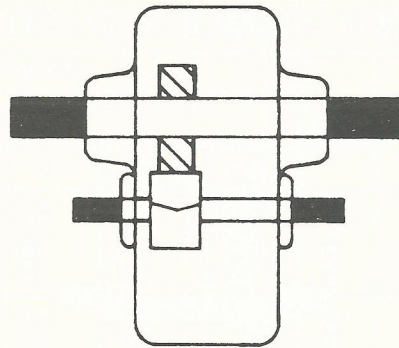
SL Speed Reducers use crown shaved helical gearing.  
 SG Speed Reducers are equipped with Sykes generated herringbone gearing.  
 Shaded blocks indicate the mechanical horsepower capacity exceeds the thermal rating.  
 The 5.502:1 reduction ratio is non-standard AGMA.  
 Partial gear sets are stocked in most sizes.



## SHAFT ARRANGMENT STYLES



All diagrams Show Plan Views



**IMPORTANT:** Dimensions are for reference only.  
Certified prints furnished upon request for  
installation purposes.

### DIMENSIONS IN INCHES

SIZE	A	B	C	C'	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
SL-6	6 $\frac{1}{8}$	20 $\frac{3}{8}$	6 $\frac{1}{2}$	6 $\frac{1}{2}$	17 $\frac{1}{8}$	15	7 $\frac{1}{8}$	5 $\frac{1}{8}$	1 $\frac{1}{4}$	$\frac{3}{8}$	9 $\frac{1}{4}$	3 $\frac{3}{8}$	7	2 $\frac{1}{8}$	1 $\frac{1}{8}$	$\frac{1}{2} \times \frac{1}{4}$	1 $\frac{1}{4}$	$\frac{1}{4} \times \frac{1}{8}$
SL-20	6 $\frac{1}{2}$	22 $\frac{7}{16}$	8 $\frac{1}{4}$	8 $\frac{1}{4}$	19 $\frac{1}{4}$	15 $\frac{1}{4}$	8 $\frac{1}{2}$	4	1 $\frac{1}{2}$	1	11 $\frac{3}{8}$	5 $\frac{1}{16}$	9 $\frac{1}{4}$	3 $\frac{3}{8}$	2 $\frac{1}{8}$	$\frac{1}{2} \times \frac{1}{4}$	1 $\frac{1}{2}$	$\frac{3}{4} \times \frac{3}{8}$
SL-30	7 $\frac{3}{32}$	26 $\frac{3}{8}$	9 $\frac{1}{8}$	7 $\frac{1}{4}$	22	19 $\frac{3}{8}$	8 $\frac{1}{2}$	7 $\frac{1}{4}$	1 $\frac{1}{4}$	1 $\frac{1}{2}$	12 $\frac{1}{4}$	5 $\frac{3}{8}$	10 $\frac{3}{8}$	3 $\frac{3}{8}$	3 $\frac{1}{4}$	$\frac{3}{4} \times \frac{3}{8}$	1 $\frac{1}{2}$	$\frac{3}{4} \times \frac{3}{8}$
SG-45	9 $\frac{1}{2}$	30 $\frac{1}{4}$	10 $\frac{1}{2}$	7 $\frac{1}{2}$	20 $\frac{1}{2}$	23 $\frac{3}{8}$	9 $\frac{3}{32}$	9	1 $\frac{1}{4}$	1 $\frac{1}{4}$	14	6 $\frac{1}{8}$	11	3 $\frac{1}{8}$	3 $\frac{3}{8}$	$\frac{7}{8} \times \frac{3}{8}$		Varies with Ratio
SG-57	11 $\frac{1}{32}$	36 $\frac{3}{8}$	12	12	31 $\frac{1}{8}$	27 $\frac{3}{8}$	13 $\frac{3}{32}$	8 $\frac{3}{8}$	2 $\frac{1}{8}$	1 $\frac{1}{4}$	23	8 $\frac{1}{8}$	14 $\frac{1}{8}$	5 $\frac{1}{8}$	4 $\frac{1}{2}$	1 $\times \frac{3}{8}$		Varies with Ratio
SG-80	12 $\frac{1}{16}$	43 $\frac{3}{8}$	16	16	39 $\frac{3}{8}$	32 $\frac{1}{8}$	16	13	2	1 $\frac{1}{4}$	25 $\frac{1}{4}$	9 $\frac{3}{8}$	15 $\frac{3}{8}$	6 $\frac{1}{8}$	4 $\frac{1}{2}$	1 $\times \frac{3}{8}$		Varies with Ratio
SG-114	14 $\frac{1}{4}$	45 $\frac{3}{8}$	16 $\frac{1}{2}$	16 $\frac{1}{2}$	41 $\frac{3}{8}$	34 $\frac{3}{8}$	16 $\frac{1}{8}$	13	1 $\frac{3}{8}$	2	25 $\frac{1}{4}$	8 $\frac{1}{2}$	15 $\frac{3}{8}$	5 $\frac{1}{8}$	5	1 $\frac{1}{4} \times \frac{1}{2}$		Varies with Ratio
SG-160	16 $\frac{3}{32}$	51 $\frac{3}{8}$	18	18	46 $\frac{1}{8}$	39 $\frac{3}{8}$	17 $\frac{1}{4}$	14 $\frac{1}{2}$	1 $\frac{1}{2}$	2 $\frac{1}{2}$	28 $\frac{3}{8}$	8 $\frac{1}{4}$	18 $\frac{1}{2}$	6 $\frac{1}{8}$	5 $\frac{1}{2}$	1 $\frac{1}{4} \times \frac{3}{8}$		Varies with Ratio
SG-228	18	58 $\frac{3}{8}$	19 $\frac{1}{4}$	19 $\frac{1}{4}$	50 $\frac{3}{8}$	41	20 $\frac{1}{8}$	14 $\frac{1}{2}$	3 $\frac{1}{2}$	2 $\frac{1}{2}$	28 $\frac{3}{8}$	9 $\frac{1}{8}$	18 $\frac{3}{8}$	6 $\frac{3}{8}$	5 $\frac{1}{2}$	1 $\frac{1}{4} \times \frac{3}{8}$		Varies with Ratio
SG-320	20 $\frac{1}{2}$	66 $\frac{3}{8}$	21 $\frac{1}{2}$	21 $\frac{1}{2}$	57 $\frac{3}{8}$	46 $\frac{3}{8}$	23 $\frac{3}{8}$	16 $\frac{1}{4}$	4 $\frac{1}{8}$	2 $\frac{3}{8}$	33 $\frac{1}{2}$	10 $\frac{3}{8}$	22 $\frac{1}{4}$	7 $\frac{3}{8}$	6 $\frac{3}{8}$	1 $\frac{1}{2} \times \frac{3}{8}$		Varies with Ratio
SG-456	23 $\frac{1}{16}$	74 $\frac{3}{8}$	23 $\frac{1}{2}$	23 $\frac{1}{2}$	57 $\frac{3}{8}$	52 $\frac{1}{2}$	24 $\frac{1}{4}$	16 $\frac{1}{4}$	4 $\frac{1}{8}$	2 $\frac{1}{2}$	38 $\frac{1}{4}$	13 $\frac{3}{8}$	23 $\frac{3}{8}$	7 $\frac{3}{8}$	7 $\frac{1}{2}$	1 $\frac{3}{4} \times \frac{3}{8}$		Varies with Ratio
SG-990	29 $\frac{1}{32}$	95 $\frac{1}{8}$	29 $\frac{1}{2}$	29 $\frac{1}{2}$	76	61 $\frac{1}{4}$	33 $\frac{1}{32}$	21 $\frac{1}{2}$	2	3	34 $\frac{1}{8}$	14 $\frac{3}{8}$	26 $\frac{1}{2}$	6 $\frac{3}{8}$	8 $\frac{1}{2}$	2 $\times 1$	5 $\frac{1}{8}$	1 $\frac{1}{2} \times \frac{3}{4}$

In the SL Models, all gearing is crown shaved helical.

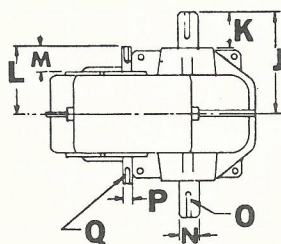
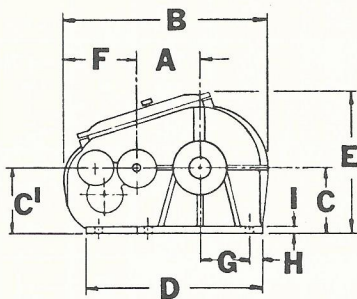
All gearing is continuous tooth herringbone in SG Models.

Be sure to specify the shaft style desired. See the diagram of available arrangements in upper left corner.

Special shaft lengths or modified shafts can be supplied. Shaft covers for either input or output shaft extensions are also available. Fabricated steel housings may be manufactured when required.

Call our Sales Department for special speed reduction ratios.

Alten Speed Reducers can be furnished with provision for mounting the electric motor on top of the housing. The Piggy-Back Motor Mount is particularly desirable where installation space is limited.



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ALT

# ALTEN DOUBLE REDUCTION PARALLEL SHAFT SPEED REDUCERS

SPEED REDUCER SIZE
DL-6
SL-6
DL-10
SL-20
DL-20
SL-30
DL-25
DL-30
SG-45
DG-40
DG-45
SG-57
DG-57
SG-80
DG-80
SG-114
DG-114
DG-160
SG-160
DG-228
SG-228
DG-320
SG-320
DG-456
SG-456
DG-990
SG-990
DG-1450
DG-2100

SPEED REDUCER SIZE	INPUT RPM	AGMA MECHANICAL HORSEPOWER RATINGS AT INPUT SPEEDS SHOWN										APPROX. OIL CAPACITY (Gals.)	APPROX. SHIPPING WEIGHT (Lbs.)			
		Standard ratios may vary up to $\pm 4\%$ . Consult the Bremen Office for exact ratio information, if required.														
		7.59	9.29	11.39	13.95	17.09	20.93	25.63	31.39	38.44	47.06					
DL-6	1750	29.6	24.5	21.1	17.6	13.3	10.8	7.77	6.40			1	175			
	1150	20.7	17.4	14.4	12.2	9.21	7.41	5.34	4.38							
	870	16.2	13.5	11.2	9.48	7.17	5.76	4.14	3.40							
	720	13.6	11.4	9.38	7.95	6.04	4.85	3.48	2.86							
	580	11.2	9.31	7.67	6.49	4.96	3.98	2.85	2.34							
400	7.90	6.58	5.41	4.57	3.52	2.82	2.02	1.65								
DL-10	1750	35.6	29.7	24.7	21.2	17.0	14.6	10.8	8.83			1	195			
	1150	24.5	20.6	17.0	14.5	11.5	9.92	7.42	6.05							
	870	19.1	15.9	13.2	11.2	8.90	7.64	5.76	4.69							
	720	16.0	13.4	11.1	9.38	7.46	6.39	4.84	3.94							
	580	13.2	11.0	9.05	7.66	6.08	5.21	3.96	3.23							
400	9.32	7.75	6.38	5.39	4.27	3.65	2.80	2.28								
DL-20	1750	63.0	54.2	44.4	37.4	30.9	26.4	20.7	16.7			3/2	380			
	1150	43.4	37.3	30.4	25.5	21.0	17.9	14.0	11.3							
	870	33.8	29.9	23.5	19.7	16.2	13.8	10.8	8.66							
	720	28.4	24.3	19.8	16.5	13.5	11.5	9.01	7.23							
	580	23.3	19.9	16.2	13.5	11.1	9.41	7.33	5.88							
400	16.6	14.1	11.4	9.51	7.79	6.60	5.14	4.11								
DL-25	870	55.1	46.8	40.4	33.7	26.8	20.2	16.1	12.4			4/2	630			
	720	46.8	39.7	34.0	28.5	22.6	17.1	13.6	10.4							
	580	38.7	32.8	27.9	23.3	18.6	14.0	11.2	8.56							
	400	27.8	23.4	19.7	16.8	13.3	9.97	7.94	6.07							
	DL-30	1750	98.4	84.8	73.5	61.7	49.2	37.3	30.0	23.1					3	610
1150		70.0	59.5	51.5	43.1	34.2	25.9	20.7	15.9							
DG-40		870		74.3	62.9	50.6	43.2	33.3	27.3	19.9	19.4	13.8	7	820		
		720		62.7	53.0	42.6	36.3	28.1	23.1	16.8	16.2	11.6				
		580		51.5	43.5	34.9	29.7	23.2	19.0	13.8	13.2	9.40				
	400		36.6	30.8	24.7	21.0	16.6	13.5	9.81	9.25	6.58					
	DG-45	1750		137.0	117.0	94.8	80.3	60.9	50.1	36.8	36.8	26.6			3 1/2	790
1150			95.2	80.7	65.2	55.8	42.5	34.9	25.5	25.1	18.0					
DG-57		1750		207.0	181.0	150.0	122.0	107.0	83.9	65.3	53.8	38.8	4	1,470		
		1150		144.0	125.0	104.0	84.0	73.1	58.7	45.5	37.4	27.4				
		870		113.0	97.6	80.6	65.2	56.7	45.9	36.7	29.3	21.3				
	720		95.0	82.3	67.9	54.8	47.6	38.5	30.2	24.7	18.0					
	580		78.2	67.6	55.7	44.9	38.9	31.4	24.9	20.3	15.0					
400		55.7	48.1	39.5	31.8	27.5	22.2	17.7	14.5	10.5						
DG-80	1750		265.0	220.0	186.0	155.5	128.0	99.5	79.3	66.8	58.4	17	2,300			
	1150		185.0	153.0	129.0	107.0	89.9	69.8	55.4	46.6	39.6					
	870		145.0	119.0	100.0	82.8	69.9	54.8	43.5	36.1	30.5					
	720		122.0	101.0	84.4	69.7	58.7	46.4	36.8	30.2	25.5					
	580		101.0	82.7	69.3	57.1	48.1	38.4	30.4	24.6	20.8					
400		71.8	58.9	49.2	40.4	34.0	27.5	21.7	17.3	14.6						
DG-114	1750		358.0	302.0	261.0	208.0	164.0	133.0	104.0	85.6	72.0	20	2,400			
	1150		250.0	210.0	181.0	147.0	116.0	93.5	72.7	59.7	48.8					
	870		196.0	164.0	141.0	114.0	91.2	73.6	57.0	46.8	38.6					
	720		166.0	139.0	119.0	96.1	77.4	62.4	48.3	39.6	32.6					
	580		137.0	114.0	97.6	78.9	64.1	51.6	39.8	32.6	26.3					
400		97.7	81.3	69.4	55.9	46.0	37.0	28.5	23.3	18.0						
DG-160	1750		512.0	440.0	381.0	301.0	258.0	204.0	163.0	138.0	113.0	30	3,300			
	1150		359.0	307.0	251.0	208.0	176.0	144.0	115.0	96.5	78.7					
	870		282.0	241.0	196.0	162.0	137.0	113.0	90.0	75.7	60.7					
	720		239.0	203.0	165.0	137.0	115.0	95.3	76.3	64.1	50.9					
	580		197.0	168.0	136.0	112.0	94.6	78.0	63.0	52.9	41.5					
400		141.0	120.0	96.9	79.7	67.0	55.1	45.2	37.4	29.2						
DG-228	1750		499.0	596.0	507.0	425.0	362.0	288.0	231.0	194.0	151.0	30	4,250			
	1150		416.0	353.0	294.0	250.0	204.0	163.0	133.0	103.0	81.0					
	870		392.0	326.0	276.0	229.0	194.0	161.0	128.0	103.0	79.3					
	720		332.0	276.0	233.0	193.0	164.0	136.0	109.0	86.3	66.4					
	580		275.0	228.0	192.0	159.0	134.0	111.0	90.0	70.5	54.2					
400		197.0	163.0	137.0	113.0	95.3	78.7	64.7	49.7	38.1						
DG-320	1750		770.0	830.0	780.0	683.0	543.0	431.0	353.0	302.0	247.0	52	6,900			
	1150		606.0	652.0	544.0	460.0	382.0	305.0	249.0	209.0	168.0					
	870		512.0	512.0	426.0	360.0	298.0	241.0	196.0	162.0	130.0					
	720		426.0	434.0	360.0	304.0	251.0	205.0	167.0	136.0	109.0					
	580		368.0	358.0	297.0	250.0	206.0	170.0	138.0	111.0	89.2					
400		306.0	256.0	212.0	178.0	146.0	123.0	99.6	78.5	62.8						
DG-456	1750		1078.0	928.0	1098.0	908.0	729.0	558.0	464.0	373.0	337.0	86	9,000			
	1150		850.0	731.0	803.0	641.0	519.0	396.0	328.0	263.0	230.0					
	870		723.0	620.0	510.0	424.0	351.0	267.0	221.0	176.0	150.0					
	720		599.0	512.0	421.0	349.0	292.0	221.0	183.0	146.0	122.0					
	580		431.0	368.0	301.0	249.0	209.0	160.0	132.0	105.0	86.4					
DG-990	1750		1376.0	1165.0	1000.0	815.0	672.0	521.0	420.0	360.0	320.0	115	14,000			
	1150		1086.0	917.0	785.0	638.0	533.0	413.0	326.0	279.0	235.0					
	870		923.0	778.0	665.0	539.0	455.0	351.0	275.0	235.0	192.0					
	720		765.0	643.0	549.0	444.0	378.0	292.0	225.0	192.0	156.0					
	580		551.0	462.0	393.0	317.0	269.0	211.0	159.0	136.0	109.0					
DG-1450	1750		1874.0	1548.0	1242.0	1008.0	829.0	647.0	545.0	458.0	428.0	115	15,750			
	1150		1479.0	1217.0	989.0	789.0	647.0	519.0	428.0	360.0	315.0					
	870		1257.0	1032.0	846.0	667.0	546.0	449.0	377.0	295.0	259.0					
	720		1041.0	853.0	705.0	550.0	449.0	377.0	315.0	259.0	219.0					
	580		749.0	612.0	509.0	392.0	320.0	268.0	219.0	176.0	146.0					
DG-2100	1750		2327.0	1901.0	1605.0	1323.0	1143.0	932.0	796.0	662.0	551.0	170	28,400			
	1150		2002.0	1614.0	1360.0	1120.0	955.0	796.0	657.0	557.0	464.0					
	870		1682.0	1336.0	1124.0	923.0	795.0	664.0	558.0	458.0	380.0					
	720		1238.0	981.0	806.0	660.0	567.0	477.0	396.0	325.0	269.0					
	580															
400																

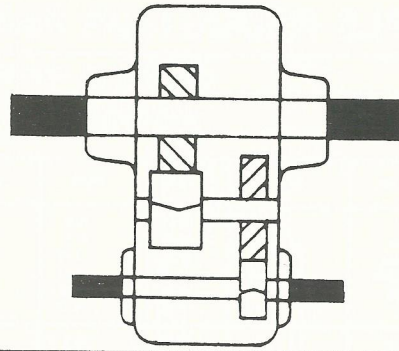
SEE SINGLE REDUCTION TABLE

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DL Speed Reducers use crown shaved helical gearing.  
 DG Speed Reducers are equipped with Sykes generated herringbone gearing.  
 Shaded blocks indicate the mechanical horsepower capacity exceeds the thermal rating.



# DOUBLE REDUCTION UNITS



**IMPORTANT:** Dimensions are for reference only.  
 Certified prints furnished upon request for  
 installation purposes.

**DIMENSIONS IN INCHES**

SIZE	A	B	C	C'	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
DL-6	9 <sup>1</sup> / <sub>16</sub>	20 <sup>3</sup> / <sub>16</sub>	6 <sup>1</sup> / <sub>2</sub>	6 <sup>1</sup> / <sub>2</sub>	17 <sup>1</sup> / <sub>16</sub>	15	3 <sup>1</sup> / <sub>16</sub>	5 <sup>1</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>16</sub>	3/4	9 <sup>1</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>16</sub>	7	2 <sup>1</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>16</sub>	1/2 x 1/4	1	1/4 x 1/8
DL-10	9 <sup>1</sup> / <sub>16</sub>	20 <sup>3</sup> / <sub>16</sub>	6 <sup>1</sup> / <sub>2</sub>	6 <sup>1</sup> / <sub>2</sub>	17 <sup>1</sup> / <sub>16</sub>	15	3 <sup>1</sup> / <sub>16</sub>	5 <sup>1</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>16</sub>	3/4	9 <sup>1</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>16</sub>	7	2 <sup>1</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>16</sub>	1/2 x 1/4	1	1/4 x 1/8
DL-20	11 <sup>17</sup> / <sub>32</sub>	22 <sup>7</sup> / <sub>16</sub>	8 <sup>1</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>4</sub>	19 <sup>1</sup> / <sub>4</sub>	16 <sup>1</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>2</sub>	4	1 <sup>1</sup> / <sub>2</sub>	1	11 <sup>3</sup> / <sub>8</sub>	5 <sup>5</sup> / <sub>16</sub>	9 <sup>1</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>16</sub>	1/2 x 1/4	1 <sup>1</sup> / <sub>2</sub>	3/8 x 3/16
DL-25	12	26 <sup>3</sup> / <sub>16</sub>	9 <sup>1</sup> / <sub>16</sub>	8 <sup>1</sup> / <sub>16</sub>	22	19 <sup>3</sup> / <sub>16</sub>	4 <sup>3</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	15 <sup>1</sup> / <sub>16</sub>	5 <sup>1</sup> / <sub>4</sub>	10 <sup>1</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>4</sub>	3/4 x 3/8	1 <sup>1</sup> / <sub>2</sub>	3/8 x 3/16
DL-30	12	26 <sup>3</sup> / <sub>16</sub>	9 <sup>1</sup> / <sub>16</sub>	8 <sup>1</sup> / <sub>16</sub>	22	19 <sup>3</sup> / <sub>16</sub>	4 <sup>3</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	12 <sup>1</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>4</sub>	10 <sup>3</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>4</sub>	3/4 x 3/8	1 <sup>1</sup> / <sub>2</sub>	3/8 x 3/16
DG-40	14 <sup>1</sup> / <sub>4</sub>	30 <sup>1</sup> / <sub>4</sub>	10 <sup>1</sup> / <sub>2</sub>	10 <sup>1</sup> / <sub>2</sub>	20 <sup>1</sup> / <sub>2</sub>	23 <sup>3</sup> / <sub>8</sub>	5	9	1 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>	16 <sup>1</sup> / <sub>2</sub>	6 <sup>1</sup> / <sub>16</sub>	11	3 <sup>1</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>16</sub>	7/8 x 5/16	Varies with Ratio	
DG-45	14 <sup>1</sup> / <sub>4</sub>	30 <sup>1</sup> / <sub>4</sub>	10 <sup>1</sup> / <sub>2</sub>	10 <sup>1</sup> / <sub>2</sub>	20 <sup>1</sup> / <sub>2</sub>	23 <sup>3</sup> / <sub>8</sub>	5	9	1 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>	14	6 <sup>1</sup> / <sub>16</sub>	11	3 <sup>1</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>16</sub>	7/8 x 5/16	Varies with Ratio	
DG-57	19 <sup>3</sup> / <sub>16</sub>	36 <sup>3</sup> / <sub>16</sub>	12	12	31 <sup>1</sup> / <sub>16</sub>	27 <sup>3</sup> / <sub>16</sub>	5 <sup>1</sup> / <sub>16</sub>	8 <sup>3</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>16</sub>	1 <sup>3</sup> / <sub>4</sub>	23	8 <sup>3</sup> / <sub>16</sub>	14 <sup>1</sup> / <sub>16</sub>	5 <sup>1</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>2</sub>	1 x 3/8	1 <sup>1</sup> / <sub>2</sub>	Varies w/ Ratio
DG-80	21 <sup>1</sup> / <sub>2</sub>	43 <sup>3</sup> / <sub>4</sub>	16	16	39 <sup>3</sup> / <sub>8</sub>	32 <sup>3</sup> / <sub>8</sub>	7 <sup>3</sup> / <sub>8</sub>	13	2	1 <sup>3</sup> / <sub>4</sub>	25 <sup>1</sup> / <sub>4</sub>	9 <sup>3</sup> / <sub>8</sub>	15 <sup>3</sup> / <sub>16</sub>	6 <sup>1</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>2</sub>	1 x 3/8	Varies with Ratio	
DG-114	23 <sup>3</sup> / <sub>8</sub>	45 <sup>3</sup> / <sub>16</sub>	16 <sup>1</sup> / <sub>4</sub>	16 <sup>1</sup> / <sub>4</sub>	41 <sup>3</sup> / <sub>8</sub>	34 <sup>3</sup> / <sub>8</sub>	6 <sup>3</sup> / <sub>4</sub>	13	1 <sup>3</sup> / <sub>4</sub>	2	25 <sup>1</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>2</sub>	15 <sup>3</sup> / <sub>16</sub>	5 <sup>1</sup> / <sub>16</sub>	5	1 <sup>1</sup> / <sub>4</sub> x 1/2	2 <sup>1</sup> / <sub>4</sub>	1/2 x 1/4
DG-160	26 <sup>3</sup> / <sub>2</sub>	51 <sup>3</sup> / <sub>16</sub>	18	18	46 <sup>3</sup> / <sub>8</sub>	39 <sup>3</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>4</sub>	14 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>2</sub>	28 <sup>3</sup> / <sub>16</sub>	8 <sup>1</sup> / <sub>16</sub>	18 <sup>1</sup> / <sub>2</sub>	6 <sup>1</sup> / <sub>16</sub>	5 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>4</sub> x 3/8	Varies with Ratio	
DG-228	30 <sup>1</sup> / <sub>16</sub>	58 <sup>3</sup> / <sub>16</sub>	19 <sup>1</sup> / <sub>4</sub>	19 <sup>1</sup> / <sub>4</sub>	50 <sup>3</sup> / <sub>8</sub>	41	7 <sup>1</sup> / <sub>4</sub>	14 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>2</sub>	28 <sup>3</sup> / <sub>16</sub>	9 <sup>3</sup> / <sub>16</sub>	18 <sup>3</sup> / <sub>16</sub>	6 <sup>3</sup> / <sub>16</sub>	5 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>4</sub> x 3/8	2 <sup>1</sup> / <sub>4</sub>	3/4 x 3/8
DG-320	34 <sup>1</sup> / <sub>16</sub>	66 <sup>3</sup> / <sub>16</sub>	21 <sup>1</sup> / <sub>2</sub>	21 <sup>1</sup> / <sub>2</sub>	57 <sup>3</sup> / <sub>8</sub>	46 <sup>3</sup> / <sub>8</sub>	10	16 <sup>1</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>8</sub>	33 <sup>1</sup> / <sub>2</sub>	10 <sup>3</sup> / <sub>16</sub>	22 <sup>1</sup> / <sub>4</sub>	6 <sup>1</sup> / <sub>16</sub>	6 <sup>3</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>2</sub> x 3/4	Varies with Ratio	
DG-456	38 <sup>1</sup> / <sub>16</sub>	74 <sup>3</sup> / <sub>16</sub>	23 <sup>1</sup> / <sub>2</sub>	23 <sup>1</sup> / <sub>2</sub>	57 <sup>3</sup> / <sub>8</sub>	52 <sup>1</sup> / <sub>2</sub>	9 <sup>3</sup> / <sub>16</sub>	16 <sup>1</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>2</sub>	38 <sup>1</sup> / <sub>4</sub>	13 <sup>3</sup> / <sub>16</sub>	23 <sup>3</sup> / <sub>16</sub>	7 <sup>3</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>4</sub> x 7/8	Varies with Ratio	
DG-990	47 <sup>3</sup> / <sub>2</sub>	95 <sup>3</sup> / <sub>16</sub>	29 <sup>1</sup> / <sub>2</sub>	29 <sup>1</sup> / <sub>2</sub>	76	61 <sup>1</sup> / <sub>16</sub>	15 <sup>1</sup> / <sub>2</sub>	21 <sup>1</sup> / <sub>2</sub>	2	3	34 <sup>3</sup> / <sub>16</sub>	14 <sup>3</sup> / <sub>16</sub>	26 <sup>1</sup> / <sub>2</sub>	6 <sup>3</sup> / <sub>16</sub>	8 <sup>1</sup> / <sub>2</sub>	2x1	4 <sup>3</sup> / <sub>16</sub>	1x1/2
DG-1450	49 <sup>3</sup> / <sub>8</sub>	100	27	27	78	57	17 <sup>1</sup> / <sub>16</sub>	21	2	3	35 <sup>1</sup> / <sub>2</sub>	13 <sup>1</sup> / <sub>16</sub>	29 <sup>3</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>16</sub>	9	1 <sup>3</sup> / <sub>4</sub> x 3/8	4 <sup>3</sup> / <sub>16</sub>	1x1/2
DG-2100	62 <sup>3</sup> / <sub>4</sub>	131 <sup>3</sup> / <sub>16</sub>	30	30	101 <sup>1</sup> / <sub>2</sub>	70 <sup>1</sup> / <sub>2</sub>	24 <sup>3</sup> / <sub>16</sub>	27 <sup>1</sup> / <sub>4</sub>	2	3	44 <sup>3</sup> / <sub>16</sub>	18	34 <sup>3</sup> / <sub>16</sub>	8 <sup>3</sup> / <sub>16</sub>	12 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>2</sub> x 1 <sup>1</sup> / <sub>4</sub>	5	1 <sup>1</sup> / <sub>4</sub> x 3/8

In the DL Models, all gearing is crown shaved helical.

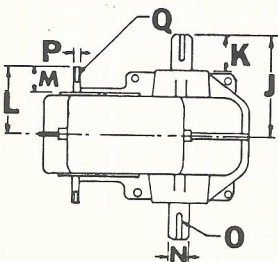
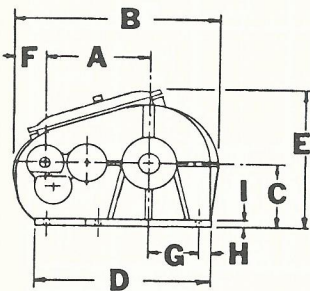
All gearing is continuous tooth herringbone in DG Models.

Be sure to specify the shaft style desired.

Special shaft lengths or modified shafts can be supplied. Shaft covers for either input or output shaft extensions are also available. Fabricated steel housings may be manufactured when required.

Call our Sales Department for special speed reduction ratios.

Alten Speed Reducers can be furnished with provision for mounting the electric motor on top of the housing. The Piggy-Back Motor Mount is particularly desirable where installation space is limited.





# ALTEN TRIPLE REDUCTION PARALLEL SHAFT SPEED REDUCERS

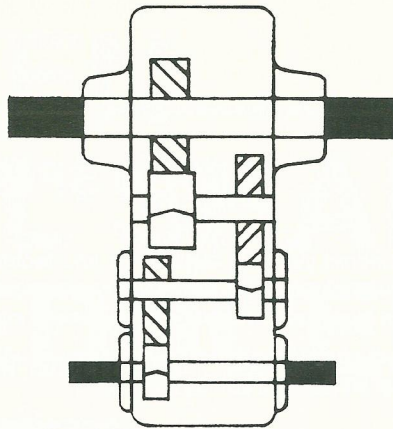
SPEED REDUCER SIZE	INPUT RPM	AGMA MECHANICAL HORSEPOWER RATINGS AT INPUT SPEEDS SHOWN										APPROX. OIL CAPACITY (Gals.)	APPROX. SHIPPING WEIGHT (Lbs.)
		Standard ratios may vary up to $\pm 5\%$ . Consult the Bremen Office for exact ratio information, if required.											
		47.08	57.66	70.62	86.50	105.9	129.7	158.9	194.6	238.4	291.9		
TG-45	1750		28.4	23.0	19.0	16.2	12.8	10.9	8.18	6.94	5.77	3 1/2 or 7	925
	1150	See Double Reduction Table	19.1	15.5	12.8	10.8	8.65	7.38	5.45	4.62	3.83		
	870		14.7	11.9	9.76	8.28	6.66	5.67	4.16	3.52	2.92		
	720		12.3	9.88	8.13	6.90	5.57	4.74	3.46	2.93	2.43		
	580		9.97	8.03	6.60	5.60	4.53	3.84	2.80	2.37	1.96		
400	6.97		5.60	4.60	3.90	3.15	2.67	1.94	1.64	1.36			
TG-57	1750	51.6	44.2	35.8	28.3	22.7	20.8	16.7	13.1	10.8	5	1,525	
	1150	34.9	28.9	24.1	19.7	15.8	14.0	11.2	8.77	7.21			
	870	26.8	22.9	18.5	15.2	12.3	10.7	8.52	6.69	5.50			
	720	22.4	19.2	15.4	12.7	10.4	8.89	7.09	5.57	4.57			
	580	18.3	15.6	12.5	10.3	8.56	7.21	5.75	4.51	3.70			
400	12.8	10.9	8.77	7.20	6.09	5.02	4.00	3.14	2.57				
TG-80	1750		55.0	45.7	37.1	30.7	25.8	21.3	17.0	13.1	10.5	17	2,525
	1150	See Double Reduction Table	37.2	30.8	25.0	20.6	17.3	14.2	11.4	8.77	6.98		
	870		28.6	23.7	19.1	15.8	13.2	10.9	8.67	6.69	5.32		
	720		23.9	19.8	16.0	13.1	11.0	9.07	7.22	5.57	4.43		
	580		19.4	16.1	13.0	10.7	8.95	7.35	5.85	4.51	3.58		
400	13.6		11.2	9.06	7.44	6.24	5.12	4.07	3.14	2.49			
TG-114	1750	89.0	76.5	62.0	51.3	43.7	34.7	29.7	23.3	18.9	20	2,635	
	1150	60.4	51.8	41.9	34.5	29.4	23.7	20.2	15.8	12.6			
	870	46.5	39.8	32.2	26.5	22.5	18.3	15.6	12.2	9.61			
	720	38.9	33.3	26.9	22.1	18.8	15.3	13.0	10.2	8.00			
	580	31.7	27.1	21.8	18.0	15.3	12.5	10.6	8.26	6.48			
400	22.3	19.0	15.3	12.6	10.6	8.78	7.43	5.75	4.51				
TG-160	1750		106.0	89.9	74.4	59.9	51.9	41.7	34.4	28.0	21.4	30	3,600
	1150	See Double Reduction Table	72.2	60.8	50.2	40.3	34.9	27.9	23.0	17.4	14.3		
	870		55.6	46.8	38.6	30.9	26.7	21.4	17.6	13.3	10.9		
	720		46.5	39.1	32.2	25.8	22.3	17.8	14.7	11.0	9.08		
	580		37.9	31.8	26.2	21.0	18.1	14.5	11.9	8.95	7.35		
400	26.6		22.3	18.3	14.7	12.6	10.1	8.28	6.23	5.11			
TG-228	1750		154.0	125.0	104.0	79.2	72.6	58.4	48.2	38.2	31.2	28	4,490
	1150	See Double Reduction Table	104.0	84.6	70.0	55.3	48.8	39.2	32.3	25.5	20.8		
	870		80.5	65.1	53.8	43.1	37.4	30.0	24.7	19.5	15.9		
	720		67.4	54.4	44.9	36.0	31.2	25.0	20.6	16.3	13.2		
	580		54.9	44.3	36.5	29.3	25.4	20.3	16.7	13.2	10.7		
400	38.6		31.1	25.6	20.5	17.7	14.1	11.6	9.17	7.46			
TG-320	1750		236.0	196.0	166.0	127.0	114.0	91.5	72.5	54.3	44.9	52	7,080
	1150	See Double Reduction Table	160.0	133.0	112.0	89.0	76.5	61.4	50.5	36.4	30.0		
	870		124.0	102.0	86.5	68.3	58.7	47.1	38.8	27.8	22.9		
	720		104.0	85.6	72.3	57.1	49.0	39.2	32.3	23.1	19.1		
	580		84.5	69.7	58.9	46.4	39.8	31.9	26.2	18.8	15.4		
400	59.4		48.9	41.3	32.5	27.8	22.2	18.3	13.1	10.7			
TG-456	1750		332.0	276.0	234.0	186.0	151.0	126.0	108.0	79.8	67.7	86	9,215
	1150	See Double Reduction Table	228.0	187.0	158.0	131.0	104.0	86.0	73.4	53.5	45.3		
	870		175.0	145.0	122.0	101.0	80.3	66.6	56.7	40.9	34.6		
	720		147.0	121.0	102.0	84.1	67.5	55.9	47.6	34.1	28.8		
	580		120.0	98.7	83.1	68.4	55.3	45.7	38.8	27.7	23.4		
400	84.2		69.3	58.3	47.9	39.1	32.1	27.1	19.3	16.3			
TG-990	1750		516.0	422.0	349.0	294.0	246.0	207.0	169.0	126.0	103.0	115	14,250
	1150	See Double Reduction Table	353.0	288.0	237.0	199.0	167.0	140.0	114.0	84.4	68.8		
	870		273.0	222.0	183.0	153.0	128.0	107.0	87.3	64.7	52.6		
	720		229.0	186.0	153.0	128.0	107.0	89.5	72.9	54.0	43.9		
	580		187.0	152.0	125.0	104.0	87.2	72.8	59.7	43.8	35.6		
400	132.0		107.0	87.7	73.3	61.0	50.9	41.4	30.6	24.8			
TG-1450	1750	780.0	636.0	578.0	477.0	405.0	293.0	248.0	205.0	160.0	115	16,600	
	1150	574.0	462.0	394.0	324.0	274.0	198.0	167.0	138.0	108.0			
	870	445.0	357.0	304.0	250.0	211.0	152.0	128.0	106.0	82.5			
	720	374.0	300.0	255.0	209.0	177.0	127.0	107.0	88.4	68.8			
	580	306.0	245.0	208.0	171.0	144.0	103.0	87.3	71.8	55.8			
400	216.0	173.0	146.0	120.0	101.0	72.5	61.0	50.2	39.0				
TG-2100	1750		1066.0	909.0	761.0	621.0	509.0	428.0	351.0	252.0	208.0	170	29,600
	1150	See Double Reduction Table	730.0	621.0	518.0	421.0	344.0	289.0	236.0	170.0	140.0		
	870		566.0	480.0	400.0	325.0	265.0	222.0	181.0	130.0	107.0		
	720		475.0	403.0	335.0	272.0	222.0	186.0	151.0	109.0	89.2		
	580		389.0	329.0	274.0	222.0	180.0	151.0	123.0	88.3	72.4		
400	274.0		232.0	193.0	156.0	126.0	106.0	86.0	61.7	50.5			

		38.44	47.08	57.66	70.62	86.50	105.9	129.7	158.9		APPROX. OIL CAPACITY (Gals.)	APPROX. SHIPPING WEIGHT (Lbs.)
TL-20	1750	15.7	13.1	10.8	8.99	7.34	5.93	4.83	4.05	3 1/2	455	
	1150	10.6	8.82	7.21	6.02	4.91	3.96	3.22	2.70			
	870	8.12	6.76	5.52	4.60	3.75	3.02	2.48	2.06			
	720	6.78	5.64	4.60	3.83	3.12	2.51	2.04	1.71			
	580	5.51	4.58	3.73	3.11	2.53	2.03	1.65	1.38			
400	3.85	3.19	2.60	2.17	1.76	1.41	1.15	.96				

All Speed Reducers shown are equipped with Sykes generated herringbone gearing except TL-20, which is crown shaved helical.

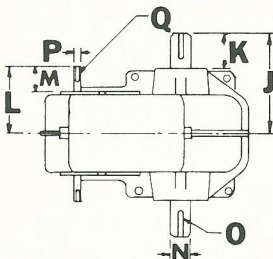
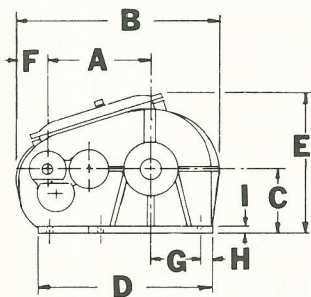
In all listings the thermal horsepower rating exceeds the mechanical horsepower gearing capacity.





**IMPORTANT:** Dimensions are for reference only.  
 Certified prints furnished upon request for  
 installation purposes.

DIMENSIONS IN INCHES																	
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
																1	1/4 x 1/8
TL-20	11.408	22 7/16	8 1/4	19 1/4	16 1/4	3.28	4	1 1/2	1	11 3/8	5 7/16	9 1/8	3 7/16	2 1/8	1/2 x 1/2	1	1/4 x 1/8
TG-45	15 1/2	31 1/16	10 1/2	26	22 3/4	5 1/16	7	1	1 3/4	14	6 1/16	11	3 1/16	3 3/8	7/16 x 1/8	1 1/4	1/4 x 1/8
TG-57	19 3/8	36 3/8	12	31 3/8	27 3/4	5 3/8	8 3/8	2 1/8	1 3/4	23	8 3/8	14 3/8	5 3/8	4 1/2	1 x 3/8	1 1/4	1/4 x 1/8
TG-80	21 1/2	43 3/4	16	39 3/8	32 1/8	7 3/8	13	2	1 3/4	25 1/4	9 3/8	15 3/8	6 3/8	4 1/2	1 x 3/8	1 1/2	3/8 x 3/8
TG-114	23 3/8	45 3/8	16 1/4	41 3/8	34 1/8	6 3/4	13	1 3/8	2	25 1/4	8 1/2	15 3/8	5 3/8	5	1 1/4 x 1/2	1 1/2	3/8 x 3/8
TG-160	26 3/2	51 3/8	18	46 3/8	39 3/8	7 1/4	14 1/2	1 1/2	2 1/2	28 3/8	8 3/8	18 1/2	5 3/4	5 1/2	1 1/4 x 3/8	1 3/4	3/8 x 3/8
TG-228	30 1/8	58 3/8	19 1/4	50 3/8	41	7 3/4	14 1/2	3 1/2	2 1/2	28 3/8	9 3/8	18 3/8	6 3/8	5 3/8	1 1/4 x 3/8	Varies with Ratio	
TG-320	34 3/8	66 3/8	21 1/2	57 3/8	46 3/4	10	16 1/4	4 3/8	2 3/8	33 1/2	10 3/8	22 1/4	7 3/16	6 3/8	1 1/2 x 3/4	Varies with Ratio	
TG-456	38 1/8	74 3/8	23 1/2	57 3/8	52 1/2	9 3/8	16 1/4	4 3/8	2 1/2	38 1/4	13 3/8	23 3/8	7 3/8	7 1/2	1 3/4 x 3/8	2 1/2	3/8 x 3/8
TG-990	47 3/2	95 1/8	29 1/2	76	61 1/4	15 1/2	21 1/2	2	3	34 1/8	14 3/8	26 1/2	6 3/8	8 3/8	2x1	Varies with Ratio	
TG-1450	54	100	27	78	57	13	21	2	3	35 1/2	13 1/16	29 3/8	8 3/8	9	1 3/4 x 3/8	Varies with Ratio	
TG-2100	72	131 3/8	30	101 1/2	70 1/2	15 3/8	27 1/2	2	3	44 3/8	18	34 3/8	8 3/4	12 3/4	2 1/2 x 1 1/4	Varies with Ratio	



All gearing is continuous tooth herringbone except TL-20, which is crown shaved helical.

Be sure to specify the shaft style desired.

Special shaft lengths or modified shafts can be supplied. Shaft covers for either input or output shaft extensions are also available. Fabricated steel housings may be manufactured when required.

Call our Sales Department for special speed reduction ratios.

Alten Speed Reducers can be furnished with provision for mounting the electric motor on top of the housing. The Piggy-Back Motor Mount is particularly desirable where installation space is limited.



# ALTEN SPEED REDUCERS

Over one hundred years of experience and technological improvement stand behind every piece of Alten engineered equipment. This extensive knowledge applied with ingenuity through modern machining procedures results in power transmission equipment exemplifying the very highest in performance and value.

Special length shafts, modified shafts, taconite oil seals, fabricated steel housings, ductile alloy housing, or supplemental equipment can be furnished.

## ACCESSORY EQUIPMENT

**BED PLATES.** Alten steel Bed Plates are designed for maximum strength and rigidly welded for stability, with mounting surfaces machined for accurate alignment. Standard Bed Plates are manufactured for each Speed Reducer size and for the more popular motor frame sizes. Special Bed Plates can be furnished to fill any need.

**PIGGYBACK MOTOR MOUNT.** Alten Speed Reducers can be furnished with provision for mounting the motor on the cover. Use with V-belt drive where installation space is limited.

**BACKSTOPS.** Alten Speed Reducers are regularly supplied with backstops for applications where reverse rotation must not occur. They automatically prevent back run in the event of power failure.

**MOUNTING.** Alten will mount customer's motor with the Speed Reducer on the bed plate, if desired, including installation of necessary couplings or other equipment.

## OTHER PRODUCTS AND SERVICES

Alten Engineering provides custom herringbone or double helical gearing for the industry. We also have a cut teeth only service for those customers who wish to supply Alten with their own blank. Our complete rebuild facility has the capacity to recondition any Alten gear box. A print is kept on file for each different reducer manufactured by Alten to ensure that our customers get the right part for their application. Most spare parts are in stock for prompt delivery.

## WARRANTY

**ALTEN** products are guaranteed for **two** years against defects in material and workmanship.

## FINAL WORD

Because our Speed Reducers are constantly in production, Alten can offer reasonable deliveries of most AGMA reduction ratios.

Proper use of Service Factors is required in realistically selecting or sizing a Speed Reducer. Check with the Alten application engineers, or one of our field sales representatives.

Sales representatives are in all areas of the United States and Canada. Why not put Alten to work for you today!

## TYPICAL APPLICATIONS

Conveyors	Mixers
Food Processing	Shredders
Rubber Processing	Cranes
Rendering Plants	Hoists
Cement Plants	Presses
Crushers	Dredges
Dryer Drives	Elevators
Kilns	Mills

**RUGGED, DEPENDABLE, BUILT TO LAST!**