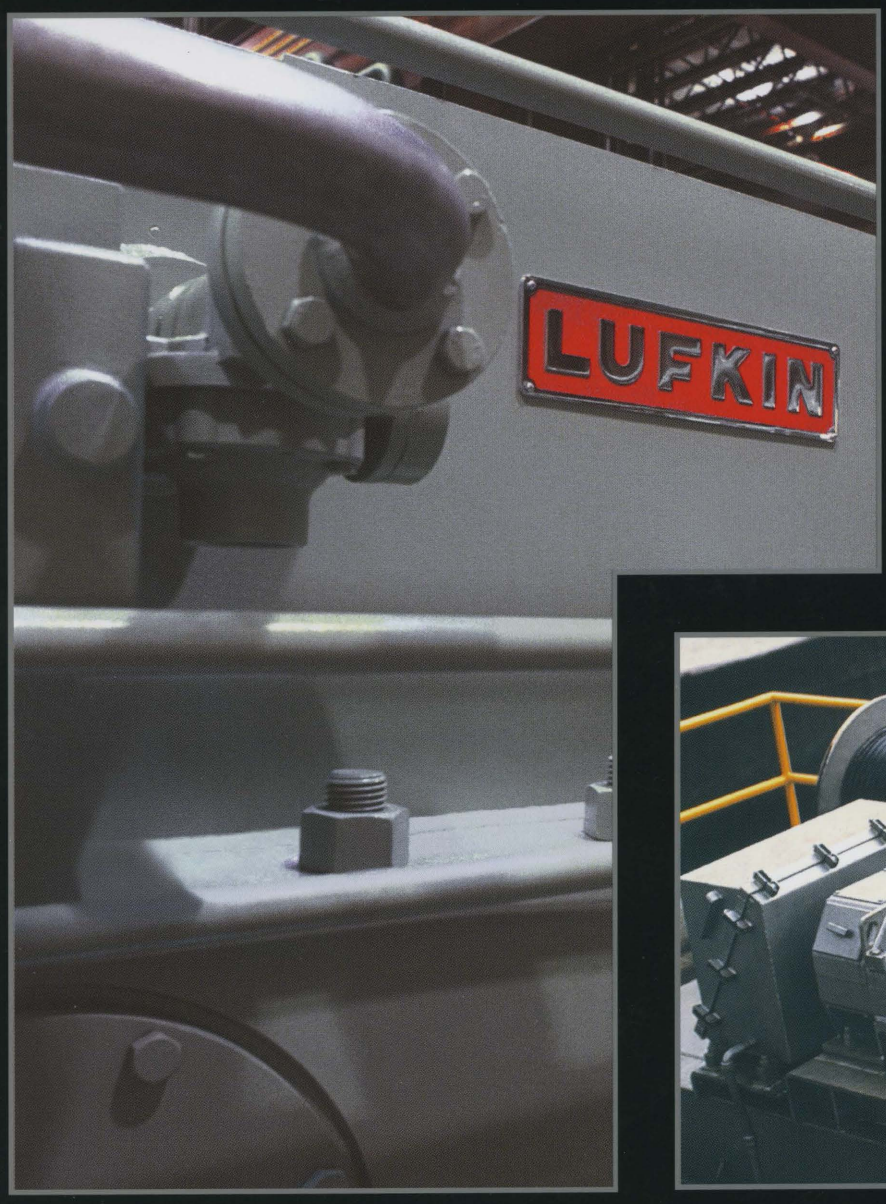
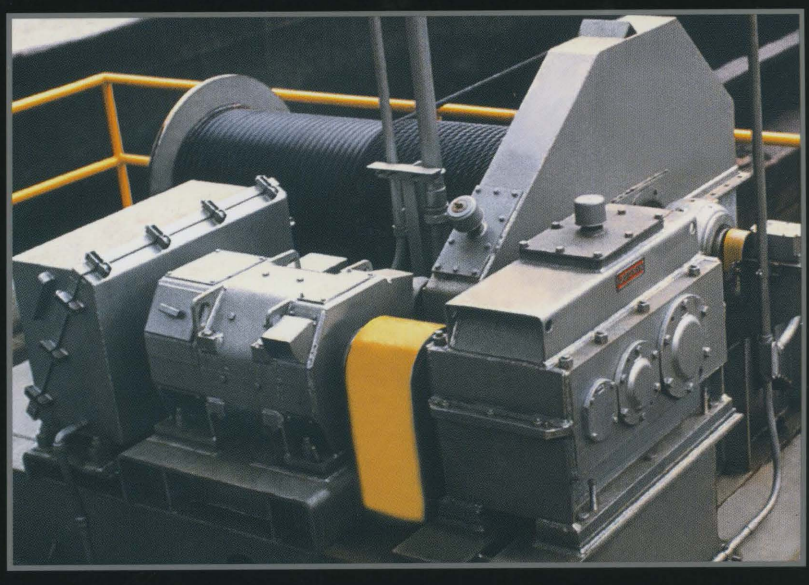
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LUFKIN

General Purpose Gear Drives
The Ultimate Level of Power and Performance







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Industry relies on the quality, performance and dependability of Lufkin precision gear drives to meet the demands of a diverse range of applications. For over 50 years, plant operators throughout the world have depended on Lufkin Industries' engineering, manufacturing and product testing expertise. As an ISO 9001 company, Lufkin maintains a consistent standard of excellence throughout all phases of product development and production.

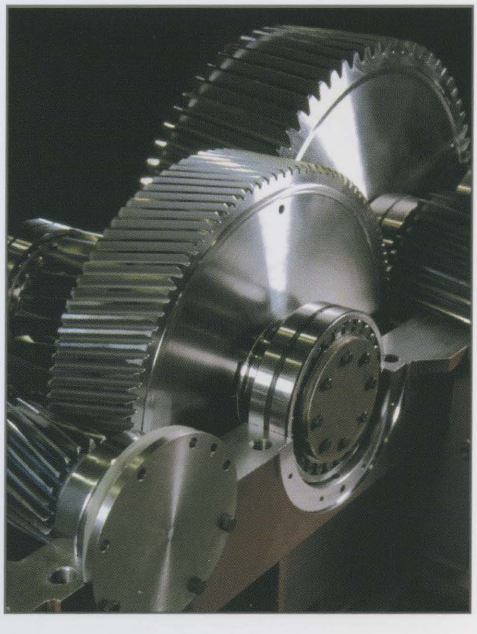


Based on in-depth technical knowledge, Lufkin sales engineers select the best product for each application. Lufkin gear units deliver exceptional stress resistance and smooth transmission of torque for optimum service under extreme operating conditions.



State-of-the-art 3-D capabilities enable Lufkin to design and manufacture gear drives which meet or exceed exacting customer and industry specifications including API 677. Lufkin also specializes in customizing units to specific requirements.

By combining vertically integrated manufacturing processes and sophisticated analytic capabilities, Lufkin can monitor and inspect each component of every gear drive throughout production to guarantee product integrity.

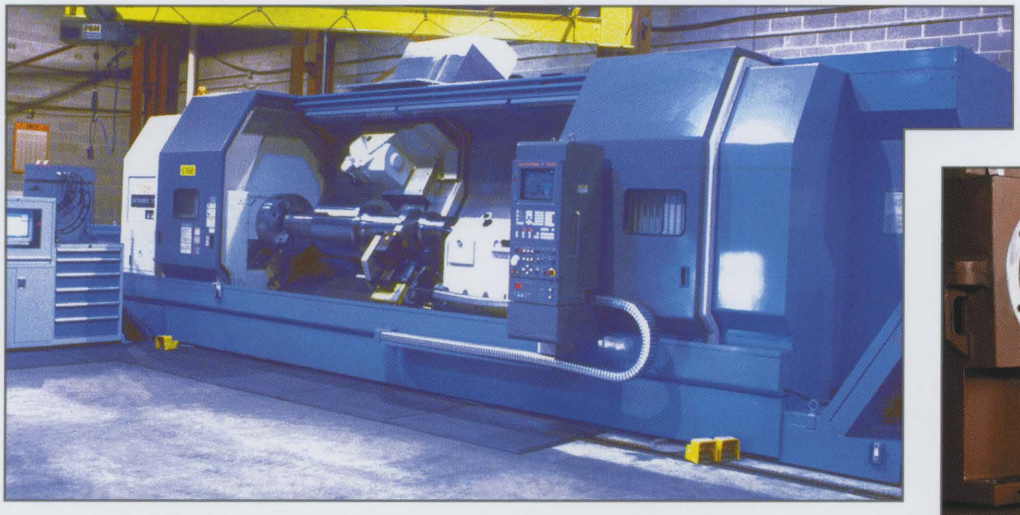




Lufkin engineers and technicians are committed to designing, manufacturing and servicing gear drives that provide outstanding power and performance.

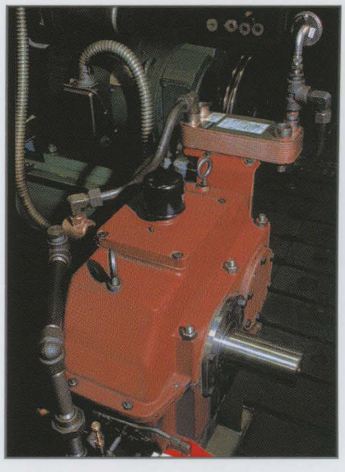
Pictured from top to bottom: *Maintaining the latest technology, such as this 3-D design station, is the cornerstone of Lufkin; gear teeth are finished utilizing equipment which provides unsurpassed precision; Model DF870HG, a rubber mixer reduction unit, during assembly.*

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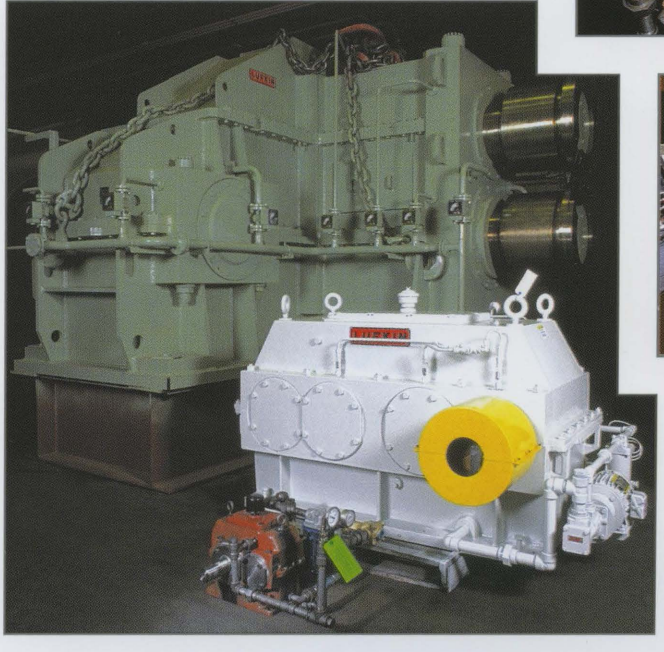


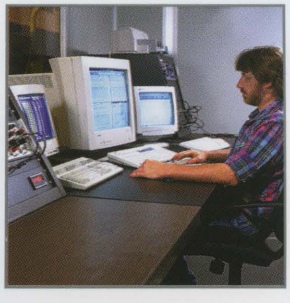


As a leader in technological innovation, Lufkin utilizes processes such as carburizing gears to increase torque capacity and CBN gear tooth finishing to assure superior accuracy. Advanced technology in design, production, inspection and testing enables Lufkin to manufacture drives that provide maximum operating efficiency and years of reliable service.



It is significant that all phases of production are handled in-house by Lufkin. From the gear housing being cast in Lufkin's Foundry or fabricated in the Heavy Weldment Facility to the final performance testing of each unit, Lufkin ensures outstanding power and precision through stringent quality control procedures. Prior to delivery, each gear unit undergoes rigorous full-range performance testing in Lufkin's world-renowned Test Facility.





Lufkin's total dedication to customer satisfaction is demonstrated by a commitment to maintain the highest-caliber technology, facilities and personnel available. By selling products through a global network of factory sales offices, Lufkin excels in providing each customer with the most precise, high-performance gear drive possible along with the finest in sales, service and technical support from Lufkin engineers at any location in the world whenever assistance is required.

Lufkin assures customers smooth initial start-up and trouble-free operation by utilizing the most advanced technology combined with strict quality standards and comprehensive product testing.

Pictured from top to bottom: *CNC integrated machining center; certification of bore alignment on Model D482G housing; Model S800D on a Lufkin test stand; the control room for data acquisition and monitoring employs the latest technology; the large Model SF7200-36-2, next the D482G and the smaller MH800.*

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Design and Construction Features

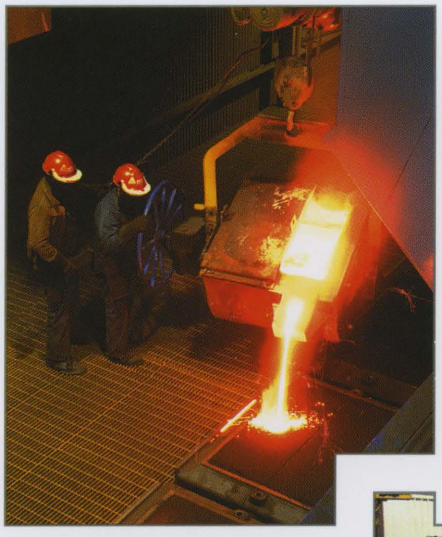
Housing — Lufkin-poured high tensile, heavy section cast iron and Lufkin-built fabricated steel housings provide superior rigidity and stability for accurate shaft alignment and gear meshing.

Pinions — High alloy, high tensile steel forgings, heat-treated for maximum tooth strength and durability. Pinions are typically forged integral with the shaft.

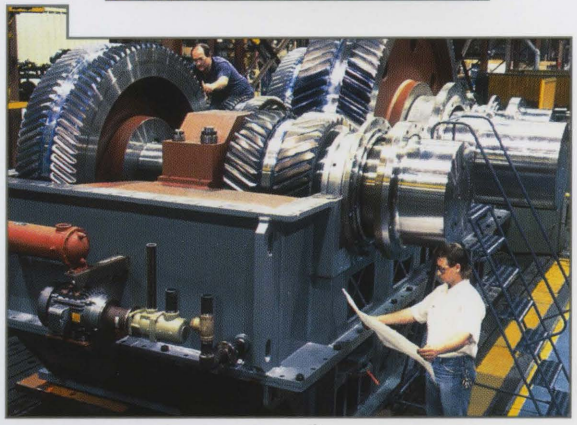
Gears — High alloy, high tensile steel forgings, press-fit and keyed to the shaft. Large diameter gears may consist of a forged alloy steel ring with a cast iron or fabricated steel hub. Concentricity of pitch circle to bearing journal is assured by cutting the teeth after the gear is mounted on its shaft.

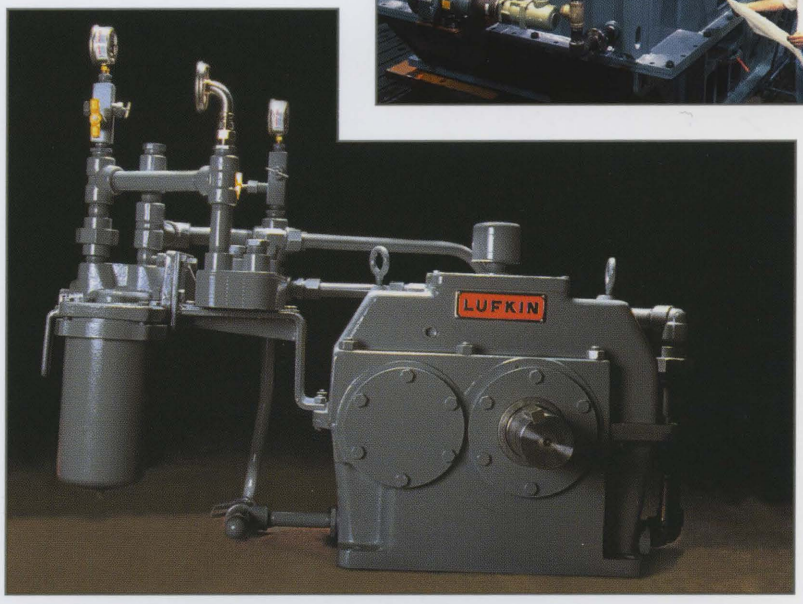
Bearings — High precision anti-friction bearings are used on all shafts to assure accurate alignment, high mechanical efficiency, and long equipment life.

Lubrication — The slow-speed gear typically dips in a bath of oil to provide constant lubrication to the gear teeth. The splashing action also delivers a generous amount of oil to channels inside the housing cover, directing a constant gravity flow of oil to the bearings. Shaft seals eliminate oil leakage and prevent the entrance of contaminants. Type "MH" units feature a lube system with positive displacement pump, heat exchanger, and oil filter for pressurized lubrication of the gear mesh and bearings.









From project inception through completion, Lufkin can handle all phases of production in-house, which guarantees customers strict quality control standards will be imposed throughout the entire manufacturing process.

Pictured from top to bottom: *housings being cast in Lufkin's Foundry; gear teeth being inspected on a cutting machine; technicians checking tooth contact on a cement ball mill drive; Model MH800D with lubrication system.*

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Gearing Specifications — High precision gearing may be double helical or single helical, through hardened or case hardened and ground, depending upon the requirements of the application. All ratings comply fully with the latest AGMA specifications.



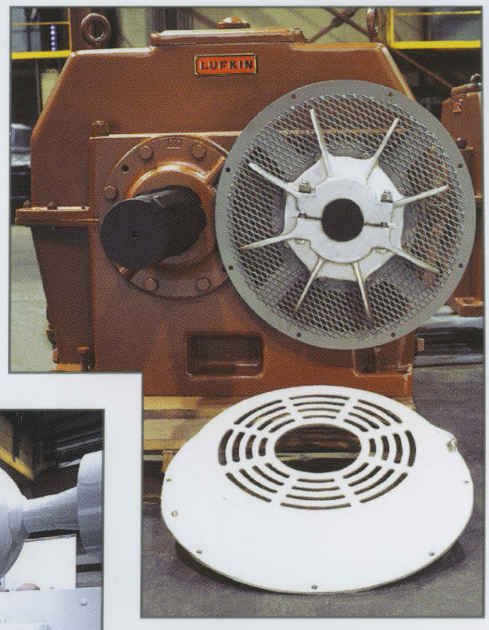
Thermal Rating — Lufkin's thermal ratings comply with all AGMA Standards. When the transmitted power exceeds the unit's thermal rating, auxiliary cooling methods such as shaft-mount fans or oil coolers are available.

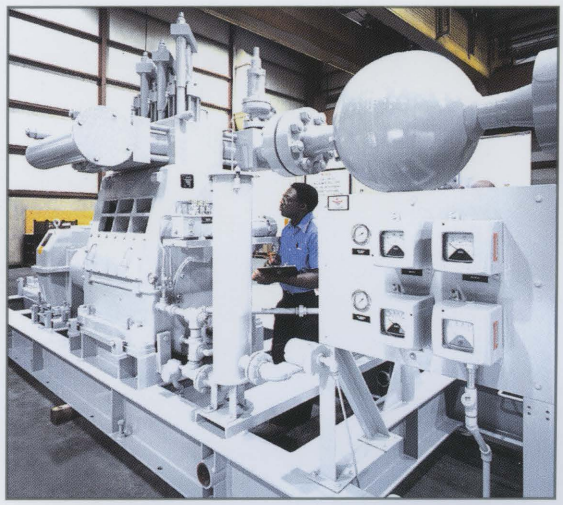
Auxiliary Equipment — Auxiliary equipment and accessories are available for all Lufkin gear drives.

- Couplings, clutches, and guards
- Lubrication systems for connected equipment
- Backstops and brakes



Overhung Loads — Standard units may withstand moderate overhung loads imposed by belts, sprockets, or external gears. Lufkin should always be consulted when the application involves such a device.

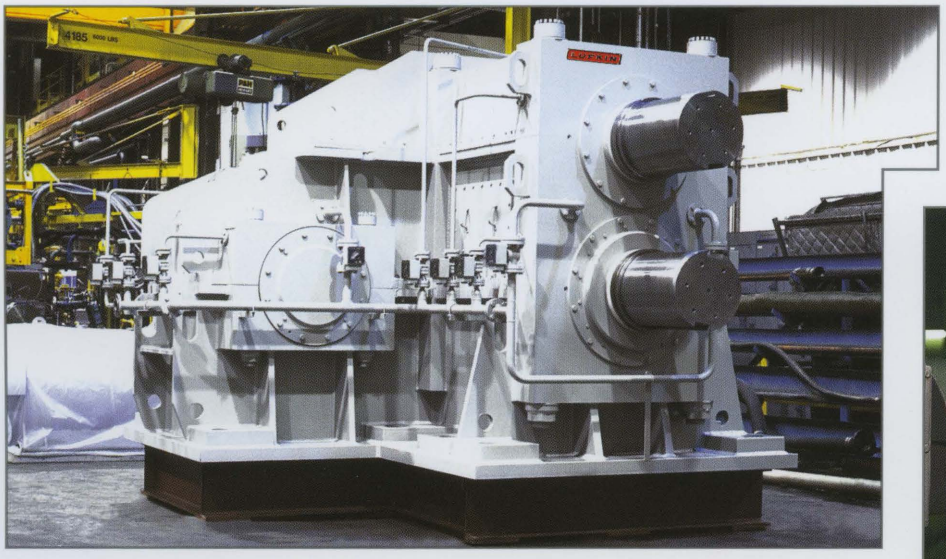


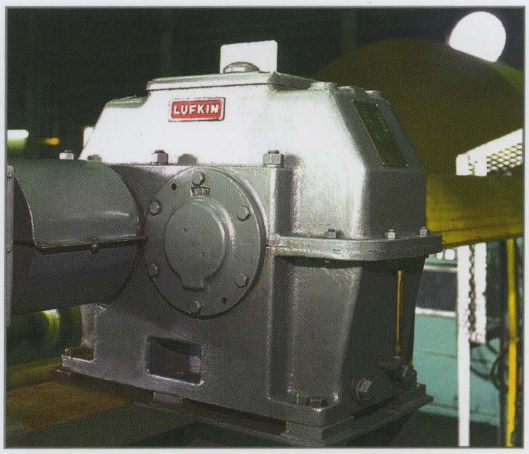


Whatever the requirements of the particular application, Lufkin can provide a high-performance gear drive to meet the specific operating needs.

Pictured from top to bottom: *MH800D unit in a turbine baseplate package; customers, like this sugar mill, depend on Lufkin drives to deliver maximum power; shaft-mounted cooling fans can cost effectively increase the thermal HP rating of a unit; customer equipment packaged with Lufkin-built gear drive, baseplate and lubrication system.*

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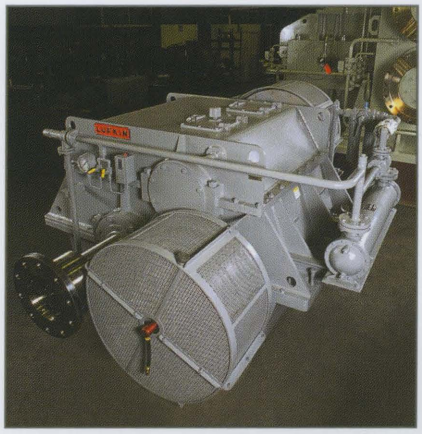


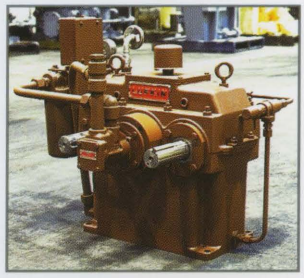


Lufkin Specializes in Custom Solutions for Diverse Industrial Applications

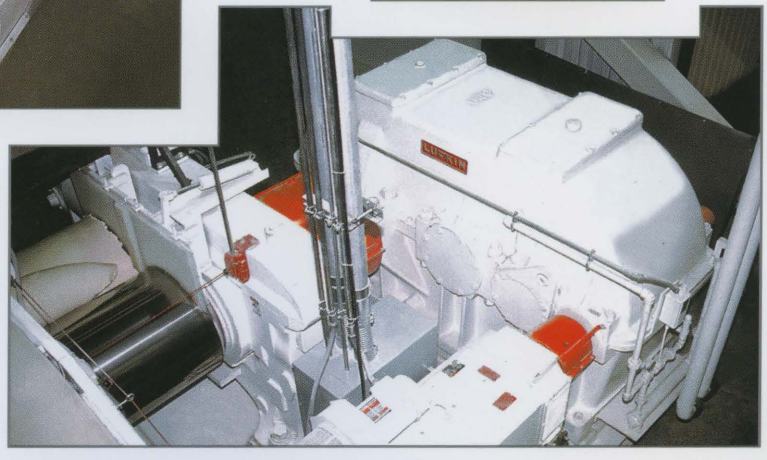
- Cement
- Extrusion
- Marine
- Materials Handling
- Mining
- Oil and Gas Transmission
- Petrochemical
- Plastics
- Power Generation
- Pulp and Paper
- Rubber
- Steel and Metals
- Sugar







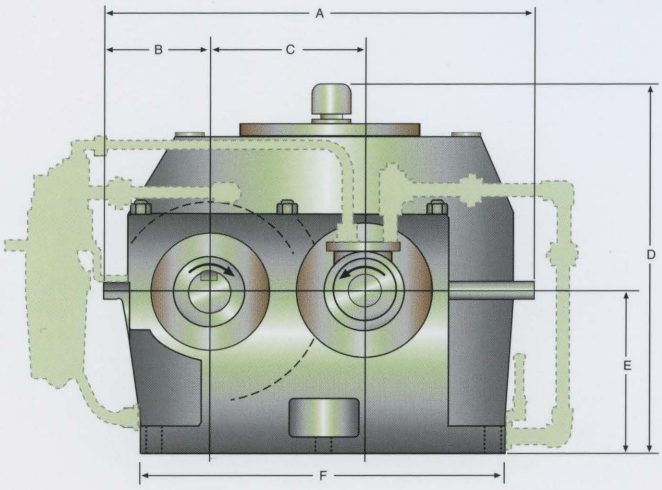
Unique application demands and customer specifications require Lufkin engineers to provide an individual product solution by utilizing leading-edge design and manufacturing capabilities.

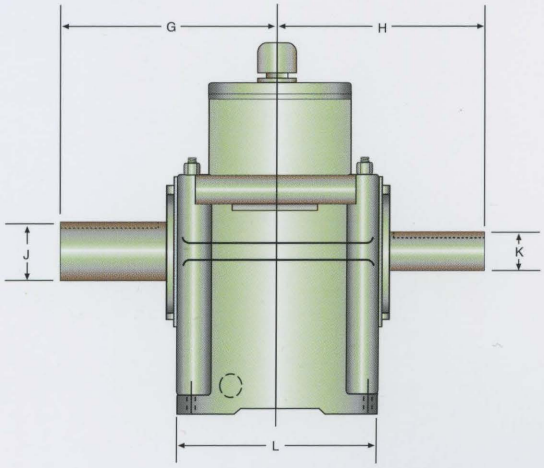


Pictured from top to bottom: *Model SF6100-36-Z drive; this paper mill application requires outstanding dependability and efficiency from this Lufkin unit; specialty rubber calender drive with interchangeable units; Model RHS3020, rated at 3525 HP, can withstand the extremes of marine service while delivering exceptional performance; Model CMH1200D customized to meet specific operating requirements; the reliability of this Model T540 triple-reduction unit is essential to customers like this rubber plant.*

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Single Reduction Units



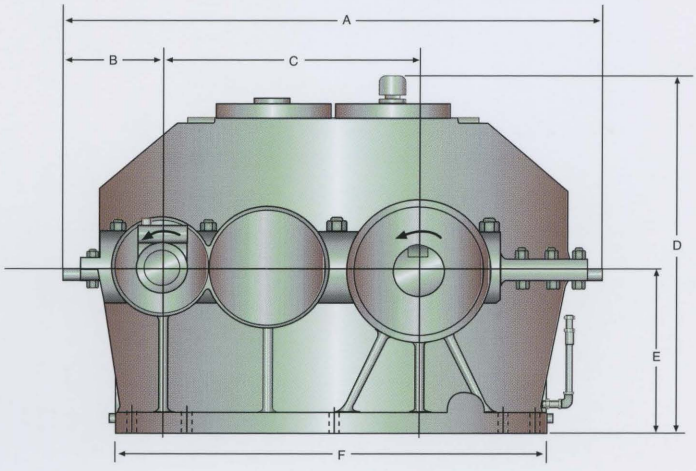


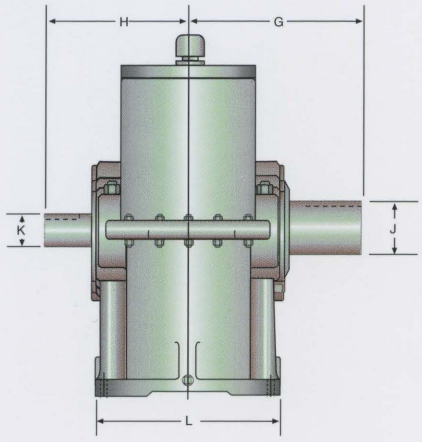
Unit	A	B	C	D	E	F	G	H	J	K*	L	Housing		Available Configurations			Weight
												Cast	Fabricated	Type S	Type M	Type MH	
600D	17.75 451	4.5 114	6 152.4	15.88 403	7 177.8	15.5 394	11 279.4	10 254	2.5 63.5	2 50.8	10 254	●		●	●	●	400 181
800D	23.5 597	5.75 146	8 203.2	20.13 511	9 228.6	19.5 495	13 330.2	12 304.8	3.25 82.6	2.63 66.8	12 305	●		●	●	●	650 295
1000D	29 737	7 178	10 254	23.88 607	11 279.4	24 610	15.5 393.7	14.25 362	4 101.6	3 76.2	14 356	●		●	●	●	1200 544
1200D	34 864	8 203	12 304.8	28.25 718	13 330.2	28 711	17.5 444.5	16 406.4	4.5 114.3	3.5 88.9	16 406	●	●	●	●	●	1800 817
148CH	38.5 978	9 229	14 355.6	32 813	15 381	32.5 826	19.5 495.3	17.25 438.2	5 127	4 101.6	17.5 445	●	●	●	●		2400 1089
169CH	43.5 1105	10 254	16 406.4	36 914	17 431.8	36.5 927	21.5 546.1	19.25 489	5.5 139.7	4.5 114.3	19.5 495	●	●	●	●		3200 1452
1810CH	47.5 1207	10 254	18 457.2	40 1016	19 482.6	41 1041	23 584.2	19.75 501.7	6 152.4	4.5 114.3	20.5 521	●	●	●	●		4500 2041
2011CH	53 1346	11 279	20 508	46.63 1184	21 533.4	46 1168	24.5 622.3	21.75 552.5	6.75 171.5	5 127	22.5 572	●	●	●	●		5750 2608
2212CH	58.5 1486	12.5 318	22 558.8	48 1219	23 584.2	49.5 1257	25.5 647.7	22.75 577.9	7.5 190.5	5.5 139.7	23.5 597	●	●	●	●		7400 3357
2413CH	65 1651	15 381	24 609.6	53.5 1359	26 660.4	62 1575	28 711.2	25 635	8 203.2	6 152.4	27 686		●	●	●		9700 4400
2714CH	72 1829	16 406	27 685.8	58 1473	28 711.2	69 1753	28.5 723.9	26 660.4	8 203.2	6.5 165.1	28 711		●	●	●		12050 5466
3015CH	78 1981	17 432	30 762	64 1626	31 787.4	75 1905	32 812.8	29 736.6	9 228.6	7.25 184.2	30 762		●	●	●		14250 6464
3318CH	85 2159	18 457	33 838.2	71 1803	35 889	82 2083	36.5 927.1	34 863.6	10 254	7.75 196.9	34 864		●	●	●		20300 9208
3824CH	97 2464	20 508	38 965.2	80 2032	40 1016	94 2388	42 1066.8	38 965.2	11.75 298.5	9.44 239.8	40 1016		●	●	●		26300 11929
4427CH	108 2743	20 508	44 1117.6	90 2286	45 1143	105 2667	45 1143	40 1016	13 330.2	10 254	44 1118		●	●	●		35400 16057
5230CH	125 3175	21 533	52 1320.8	104.5 2654	52 1320.8	122 3099	52 1320.8	45 1143	15.5 393.7	11.75 298.5	46 1168		●	●	●		44450 20162
6033CH	142 3607	24 610	60 1524	118 2997	59 1498.6	139 3531	56 1422.4	49 1244.6	17 431.8	13 330.2	50 1270		●	●	●		56550 25651

The dotted outline above, which represents the lubrication system on the "MH" unit (optional for "S" and "M" units), is for illustrative purposes only. Values shown are for cast housings. Weight and non-critical dimensions may vary for fabricated housings.
*The actual high-speed shaft diameter depends on the gear ratio. Shaft diameter typically decreases as the ratio increases; and the value shown is the largest standard diameter furnished with the lowest standard ratio.
Black dimensions/weights are in inches/pounds. Red dimensions/weights are in millimeters/kilograms.
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Double Reduction Units





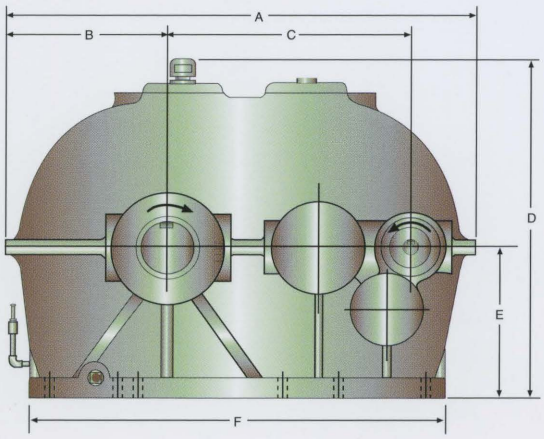
Unit	A	B	C	D	E	F	G	H	J	K*	L	Housing Cast	Housing Fabricated	Available Configurations Type D	Available Configurations Type M	Weight
100CH	21.25 540	3.75 95	10 254	17.5 445	8 203.2	18 457	11.75 298.5	9 228.6	2.5 63.5	1.13 28.7	11.5 292	●		●	●	275 125
120CH	25.5 648	4.5 114	12 304.8	21.5 546	9.5 241.3	21.25 540	13.25 336.6	10 254	3.25 82.6	1.25 31.8	13.75 349	●		●	●	600 272
145CH	31.5 800	6 152	14.5 368.3	24.25 616	10.5 266.7	26 660	14.25 362	11.5 292.1	3.25 82.6	1.5 38.1	15.5 394	●		●	●	950 431
170CH	35.5 902	6.5 165	17 431.8	28.25 718	12.5 317.5	30 762	17 431.8	13.5 342.9	4 101.6	2 50.8	17 432	●	●	●	●	1350 612
195CH	40 1016	6.5 165	19.5 495.3	30.75 781	14 355.6	34.5 876	19 482.6	15.25 387.4	4.5 114.3	2.25 57.2	20 508	●	●	●	●	1750 794
220CH	44.5 1130	7.5 191	22 558.8	35.75 908	15 381	38 965	21 533.4	17 431.8	5 127	2.63 66.8	21.5 546	●	●	●	●	2350 1066
250CH	50 1270	8 203	25 635	39.75 1010	17 431.8	43 1092	23 584.2	18.5 469.9	5.5 139.7	3 76.2	24 610	●	●	●	●	3000 1361
270CH	56 1422	9.75 248	27 685.8	39 991	19 482.6	52 1321	24 609.6	19.25 489	5.75 146.1	3 76.2	26 660		●	●	●	4850 2200
290CH	57 1448	9 229	29 736.6	44.5 1130	20 508	50 1270	24.5 622.3	20 508	6 152.4	3.25 82.6	27 686	●	●	●	●	4100 1860
320CH	63 1600	10 254	32 812.8	44 1118	21 533.4	60 1524	26 660.4	21 533.4	6.75 171.5	3.25 82.6	28.5 724		●	●	●	6950 3153
340CH	65.5 1664	10 254	34 863.6	51.75 1315	23 584.2	57 1448	27.75 704.9	22.5 571.5	7.5 190.5	3.75 95.3	31 787	●	●	●	●	6200 2812
370CH	72.5 1842	11 279	37 939.8	50 1270	25 635	68.5 1740	29 736.6	23 584.2	7.75 196.9	3.75 95.3	32 813		●	●	●	9550 4332
390CH	76 1930	10.5 267	39 990.6	58.5 1486	27 685.8	67 1702	31 787.4	25 635	8 203.2	4.5 114.3	34 864	●	●	●	●	8600 3901
440CH	85 2159	12 305	44 1117.6	63.75 1619	30 762	74 1880	34 863.6	26.5 673.1	9 228.6	4.5 114.3	38 965	●	●	●	●	11700 5307
500CH	94.5 2400	13.5 343	50 1270	67.25 1708	32 812.8	86 2184	38 965.2	31 787.4	10 254	5.5 139.7	40 1016	●	●	●	●	17900 8119
530CH	99.5 2527	14.5 368	53 1346.2	66.5 1689	33 838.2	96.5 2451	39 990.6	32 812.8	10 254	5.5 139.7	42 1067		●	●		24750 11226
560CH	104.5 2654	14.5 368	56 1422.4	69 1753	34 863.6	101.5 2578	41 1041.4	32 812.8	11 279.4	5.75 146.1	42 1067		●	●		27500 12474
600CH	110.5 2807	14.5 368	60 1524	73 1854	36 914.4	107.5 2731	42 1066.8	33 838.2	11 279.4	5.75 146.1	44 1118		●	●		30750 13948
640CH	118 2997	16 406	64 1625.6	77 1956	38 965.2	115 2921	43 1092.2	34 863.6	11.75 298.5	6 152.4	44 1118		●	●		34000 15422
720CH	131.5 3340	16 406	72 1828.8	88.5 2248	44 1117.6	128.5 3264	47 1193.8	36.5 927.1	13 330.2	6.5 165.1	48 1219		●	●		46000 20865

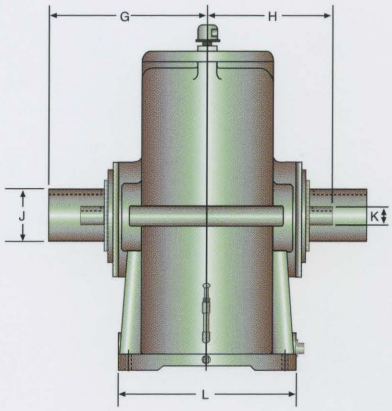
*The actual high-speed shaft diameter depends on the gear ratio. Shaft diameter typically decreases as the ratio increases; and the value shown is the largest standard diameter furnished with the lowest standard ratio. Values shown are for cast housings. Weight and non-critical dimensions may vary for fabricated housings. Black dimensions/weights are in inches/pounds. Red dimensions/weights are in millimeters/kilograms.

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Triple Reduction Units



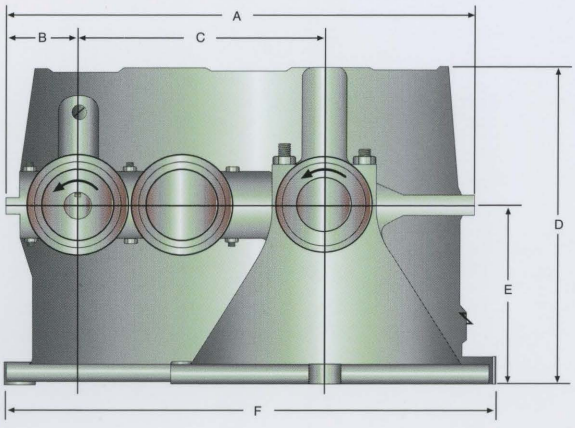


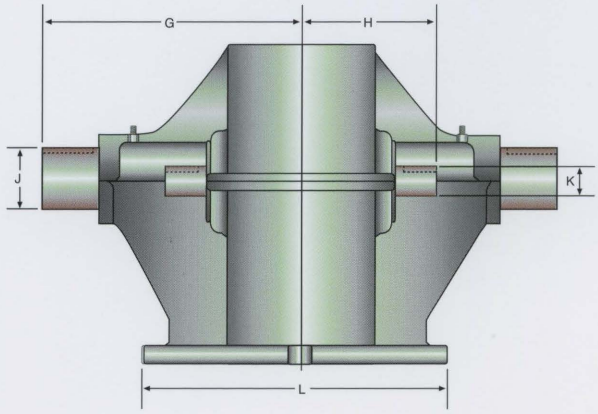
Unit	A	B	C	D	E	F	G	H	J	K*	L	Housing Cast	Housing Fabricated	Weight
145CH	31.5 800	11 279	14.5 368.3	24.25 616	10.5 266.7	26 660	14.25 362	10.25 260.4	3.25 82.6	.88 22.4	15.5 394	●		1000 454
170CH	35.5 902	12 305	17 431.8	28.25 718	12.5 317.5	30 762	17 431.8	12 304.8	4 101.6	1.25 31.8	17 432	●	●	1400 635
195CH	40 1016	14 356	19.5 495.3	30.75 781	14 355.6	34.5 876	19 482.6	14 355.6	4.5 114.3	1.5 38.1	20 508	●	●	2100 953
220CH	44.5 1130	15 381	22 558.8	35.75 908	15 381	38 965	21 533.4	15 381	5 127	1.5 38.1	21.5 546	●	●	2700 1225
250CH	50 1270	17 432	25 635	39.75 1010	17 431.8	43 1092	23 584.2	16.25 412.8	5.5 139.7	1.75 44.5	24 610	●	●	3600 1633
270CH	56 1422	19.25 489	27 685.8	39 991	19 482.6	52 1321	24 609.6	17 431.8	5.75 146.1	1.75 44.5	26 660		●	5150 2336
290CH	57 1448	19 483	29 736.6	44.5 1130	20 508	50 1270	24.5 622.3	17.75 450.9	6 152.4	2 50.8	27 686	●	●	4800 2177
320CH	63 1600	21 533	32 812.8	44 1118	21 533.4	60 1524	26 660.4	18.75 476.3	6.75 171.5	2 50.8	28.5 724		●	7375 3345
340CH	65.5 1664	21.5 546	34 863.6	51.75 1315	23 584.2	57 1448	27.75 704.9	20 508	7.5 190.5	2.25 57.2	31 787	●	●	6400 2903
370CH	72.5 1842	24.5 622	37 939.8	50 1270	25 635	68.5 1740	29 736.6	20 508	7.75 196.9	2.25 57.2	32 813		●	10250 4649
390CH	76 1930	26.5 673	39 990.6	58.5 1486	27 685.8	67 1702	31 787.4	23 584.2	8 203.2	3 76.2	34 864	●	●	9000 4082
440CH	85 2159	29 737	44 1117.6	63.75 1619	30 762	74 1880	34 863.6	25 635	9 228.6	3.25 82.6	38 965	●	●	12300 5579
500CH	94.5 2400	31 787	50 1270	67.25 1708	32 812.8	86 2184	38 965.2	28.75 730.3	10 254	3.5 88.9	40 1016	●	●	18800 8528
530CH	99.5 2527	32 813	53 1346.2	66.5 1689	33 838.2	96.5 2451	39 990.6	29.75 755.7	10 254	3.5 88.9	42 1067		●	26100 11839
560CH	104.5 2654	32 813	56 1422.4	69 1753	34 863.6	101.5 2578	41 1041.4	30 762	11 279.4	3.75 95.3	42 1067		●	28900 13109
600CH	110.5 2807	36 914	60 1524	73 1854	36 914.4	107.5 2731	42 1066.8	31 787.4	11 279.4	3.75 95.3	44 1118		●	32150 14583
640CH	118 2997	38 965	64 1625.6	77 1956	38 965.2	115 2921	43 1092.2	32 812.8	11.75 298.5	4 101.6	44 1118		●	35000 15876
720CH	131.5 3340	43.5 1105	72 1828.8	88.5 2248	44 1117.6	128.5 3264	47 1193.8	34 863.6	13 330.2	4.5 114.3	48 1219		●	47900 21727

*The actual high-speed shaft diameter depends on the gear ratio. Shaft diameter typically decreases as the ratio increases; and the value shown is the largest standard diameter furnished with the lowest standard ratio. Values shown are for cast housings. Weight and non-critical dimensions may vary for fabricated housings. Black dimensions/weights are in inches/pounds. Red dimensions/weights are in millimeters/kilograms.
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Double Reduction Herringbone Units (HI-Q)





Unit	A	B	C	D	E	F	G	H	J	K	L	Weight
D40	34.75 883	5.69 145	17.5 444.5	27.25 692	14 355.6	35.63 905	19.63 498.6	10.63 270	4 101.6	1.69 42.9	20 508	1250 567
D57	37.81 960	5.5 140	20 508	32.75 832	18 457.2	40.75 1035	23 584.2	11.75 298.5	4 101.6	1.94 49.3	25 635	1840 835
D80	41.75 1061	5.75 146	22 558.8	33.94 862	18 457.2	40.75 1035	26.5 673.1	13.38 - 13.75 339.9 - 349.3	4.44 112.8	1.94 49.3	25 635	2350 1066
D114	45.31 1151	6.56 167	24 609.6	34.69 881	18 457.2	40.75 1035	26.5 673.1	13.75 349.3	4.44 112.8	1.94 49.3	25 635	2450 1111
D160	49 1245	7.25 184	26 660.4	44.75 1137	27 685.8	49.25 1251	28 711.2	16.63 422.4	5.44 138.2	2.19 55.6	32 813	3695 1676
D228	56.75 1442	8 203	30 762	47.5 1207	27 685.8	55.5 1410	32 812.8	18.84 478.5	6 152.4	2.44 62	37 940	4950 2245
D320	63 1600	8.5 216	34 863.6	52 1321	28 711.2	65.75 1670	35.5 901.7	23 584.2	6.44 163.6	2.94 74.7	43 1092	7210 3270
D456	70.63 1794	9.5 241	38.38 974.9	52.75 1340	28 711.2	73.63 1870	41 1041.4	23.5 596.9	7 177.8	3.44 87.4	46.5 1181	9100 4128
D640	75.52 1918	9.5 241	41.52 1054.6	54.5 1384	28 711.2	73.63 1870	41 1041.4	23.5 596.9	7 177.8	3.06 77.7	46.5 1181	11000 4990
D912	88.88 2258	10.63 270	48.5 1231.9	61 1549	30 762	78.5 1994	41 1041.4	26.25 666.8	7 177.8	4.19 106.4	49.75 1264	13500 6124
D1280	105.06 2669	20.5 521	52.56 1335	69.5 1765	36 914.4	97.5 2477	44.5 1130.3	30.75 - 27.38 781.1 - 695.5	8.5 215.9	4.94 125.5	50 1270	19000 8618
D1824	111.15 2823	16.89 429	58.88 1495.6	72.5 1842	36 914.4	97.5 2477	47.5 1206.5	35 - 30 889 - 762	9 228.6	4.94 125.5	50 1270	23000 10433
D2560	127.26 3232	14.88 378	70 1778	85 2159	42 1066.8	122 3099	55 1397	42 - 29.13 1066.8 - 739.9	11.75 298.5	6.5 165.1	66 1676	34000 15422

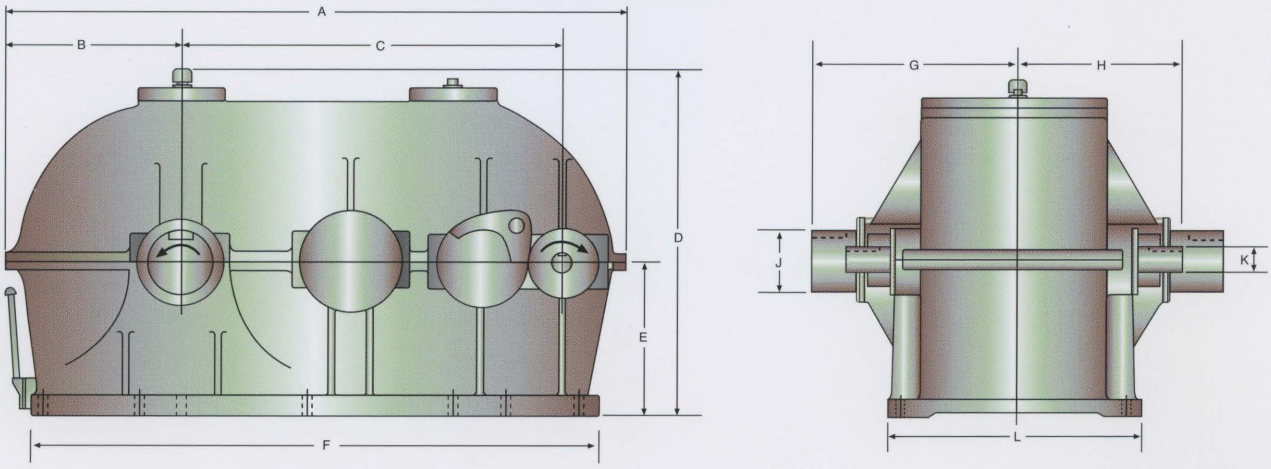
When two dimensions are shown under “H”, the first dimension is for the right-hand side and the second dimension is for the left. Unit sizes D40 and D57 are available in one-piece housings only. Housing is not split at horizontal centerline as illustrated. Models D912, D1280 and D1824 are to be used for double-extended output shaft applications only. Consult Lufkin for single-extended output shafts.

Black dimensions/weights are in inches/pounds. Red dimensions/weights are in millimeters/kilograms.

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Triple Reduction Mill Drives



Unit	A	B	C	D	E	F	G	H	J	K	L	Weight
T390S	76 1930	26.5 673	39 990.6	55.5 1410	24 609.6	67 1702	28.5 723.9	23 584.2	8.5 215.9	2.63 66.8	34 864	8925 4048
T540	92 2337	27.5 699	54 1371.6	56.25 1429	27 685.8	83 2108	33.5 850.9	25.5 647.7	9 228.6	3 76.2	40 1016	13500 6124
T640	106.5 2705	31 787	64 1625.6	62.13 1578	30 762	94.5 2400	37.25 946.2	29 736.6	10.5 266.7	3.75 95.3	45 1143	20000 9072
T720	115 2921	31 787	72 1828.8	62.75 1594	30 762	105 2667	38.5 977.9	32 812.8	11.75 298.5	4.5 114.3	48 1219	24000 10886

Reducers can be furnished with extended high-speed and low-speed shafts.
Dimensions “G” and “J” may be extended for larger couplings.
Black dimensions/weights are in inches/pounds. Red dimensions/weights are in millimeters/kilograms.
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As a global leader and technological innovator in the design and manufacturing of high-performance, precision gear drives, Lufkin provides customers with a vast resource of knowledge, expertise and capabilities:

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- Products for the Most Demanding Standard and Custom Applications
- Worldwide Sales, Service and Technical Support Offices
- State-of-the-Art 3-D Design Capabilities
- Vertically Integrated Manufacturing
- In-House Foundry, Heavy Weldment and Carburizing Operations
- Comprehensive, Full-Range Performance Testing
- Aftermarket Service and Support for Lufkin and Non-Lufkin Units

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Lufkin Industries, Inc.

Corporate Headquarters

QUALITY MANAGEMENT SYSTEM
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407 Kiln Street
P.O. Box 849
Lufkin, Texas, U.S.A. 75902-0849
Tel: 936-637-5224
Fax: 936-633-3916
e-mail: gearsales@lufkin.com
www.lufkin.com

European Headquarters

QUALITY MANAGEMENT SYSTEM
CERTIFIED BY BVQi
ISO 9001:2000

Lufkin France, S.A.
Fougerolles, France
Tel: +33 (0)3.84.49.64.00
Fax: +33 (0)3.84.49.64.44

International Offices

Los Angeles, California, U.S.A.
Tel: 949-249-7850
Fax: 949-249-7880

Houston, Texas, U.S.A.
Tel: 281-875-6500
Fax: 281-875-4172

Entzheim, France
Tel: +33 (0)3.90.29.76.20
Fax: +33 (0)3.90.29.76.29



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