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LUFKIN

Gears

Marine Propulsion Power and Performance



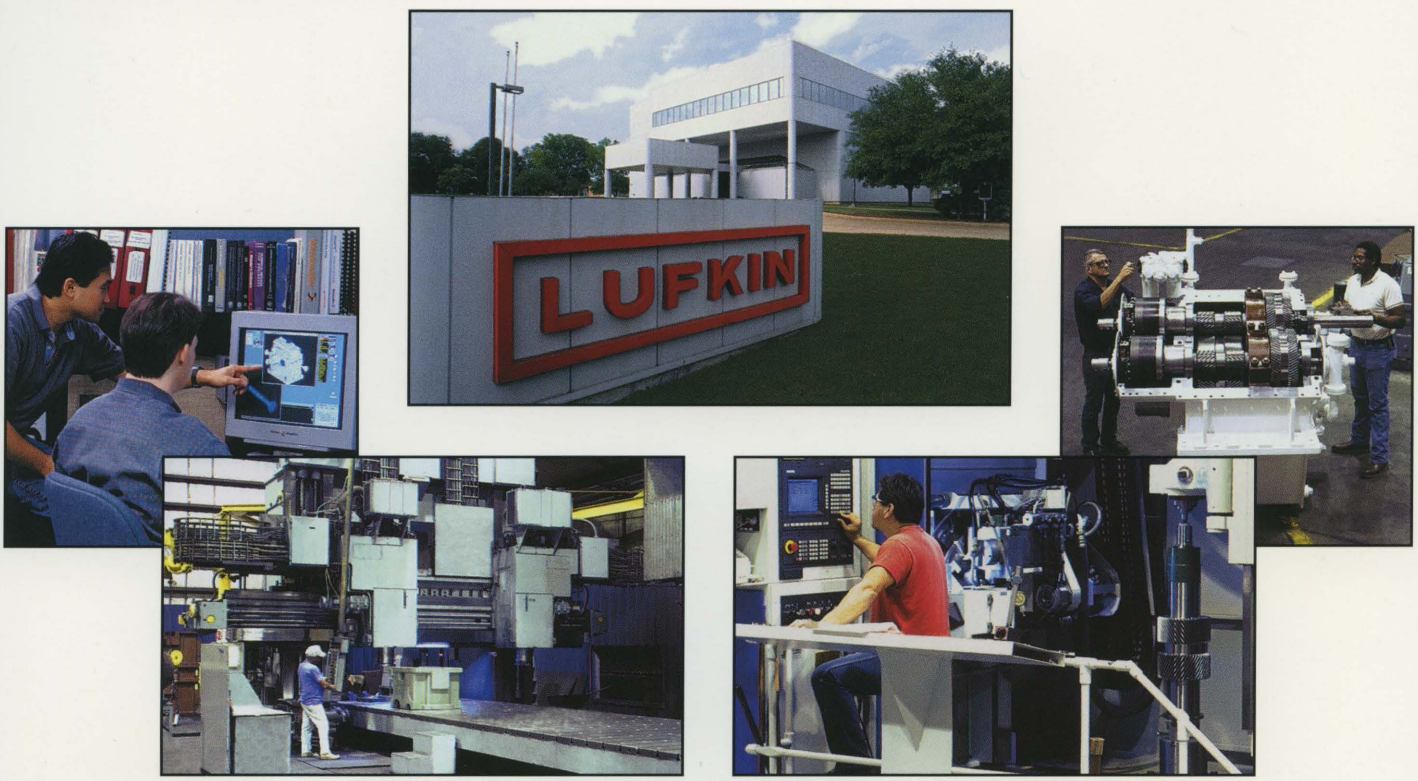
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Marine industry service demands intense power, dependable performance and exceptional mechanical integrity from a propulsion system. Lufkin Industries, for over 50 years, has designed and manufactured heavy-duty, precision gear drives that deliver the strong reliable performance and durability critical in marine applications.

Lufkin specializes in configuring marine gearing to customer specifications for multiple types of vessels and applications. Superior products are continually developed by Lufkin engineers through the use of highly advanced technology, such as state-of-the-art 3-D design capabilities. The latest technological innovations combined with vertically integrated manufacturing result in every Lufkin product providing customers with outstanding operating efficiency and equipment longevity.



Three Lufkin RS2118 propulsion drives provide proven power and performance for the "Captain Otto Candies", a triple-screw vessel.

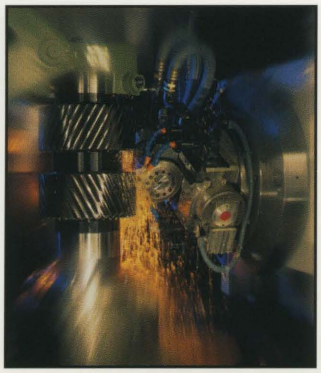


The highest level of professional expertise is evident as Lufkin engineers and technicians utilize the most advanced technology to develop, manufacture and test products.

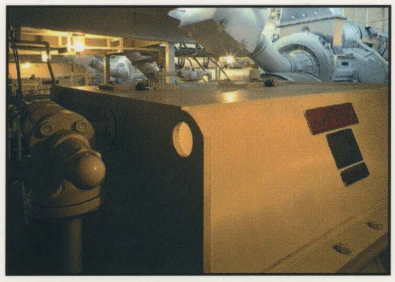
The ability to handle all facets of the manufacturing process in-house, as well as the complete integration of product design and production, provides Lufkin with unsurpassed quality control. Lufkin's steadfast commitment to technology, engineering expertise and consistent quality produces marine propulsion drives that deliver the power and reliability required under extreme operating conditions. From casting or fabricating the gear housing through final product testing and inspection, Lufkin carefully monitors each phase of production to assure that every unit will provide optimum performance and service.

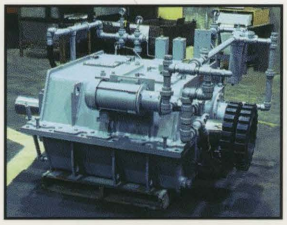
Cover Photo: *The "Goliath Tide", a North Sea Class supply vessel, and its sister ships are powered by Lufkin Model CSQ9610 reduction gears.*

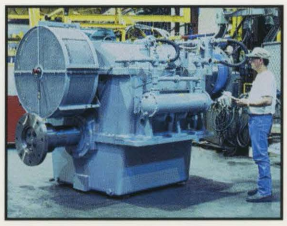
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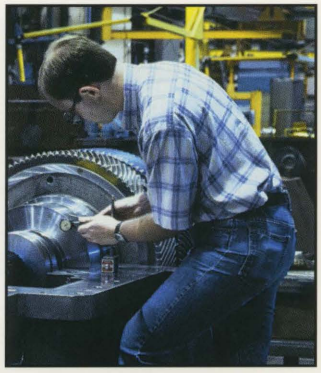
CBN gear tooth finishing results in Lufkin producing gears with ultimate precision and accuracy.







The marine industry depends on hard-working gear units such as Lufkin Models RHS3624, DFL1800HG and RS3020.

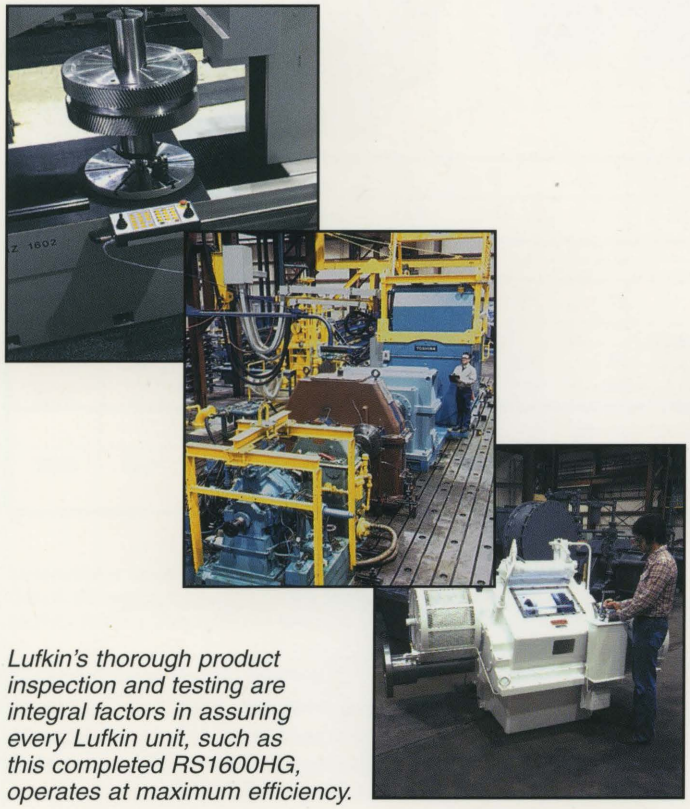


From project inception through completion, stringent quality checks are performed by Lufkin to ensure compliance with customer and industry requirements.

Lufkin designs components to provide smooth engagement, compact installation and easy access for inspection and maintenance. Utilizing the highest-quality materials and processes such as carburizing and CBN gear tooth finishing, the durability, torque capacity and accuracy of the gear is increased. All Lufkin marine gears are conservatively rated and designed to AGMA and ABS standards. Other classification society certifications, such as Lloyd's and DNV, are available on request.

Throughout the world, the marine industry relies on Lufkin to supply propulsion gears that provide unequaled precision and dependability. Prior to shipment, all Lufkin gear drives undergo thorough inspection and comprehensive performance testing. As a leader in technology, Lufkin's testing facility is one of the finest in the industry and the world. Once a unit has been tested at Lufkin, customers experience a smooth installation and start-up followed by years of trouble-free operation.

If there is a need for field service, technical or aftermarket support, Lufkin engineers are available at any time to respond to any location. Lufkin provides the expertise, experience and standard of excellence necessary to deliver the products and services essential in marine propulsion applications.



Lufkin's thorough product inspection and testing are integral factors in assuring every Lufkin unit, such as this completed RS1600HG, operates at maximum efficiency.



The "Sugar Islander", built in 1969, relies on Lufkin propulsion drives to deliver smooth operation throughout nearly 30 years of rigorous service.

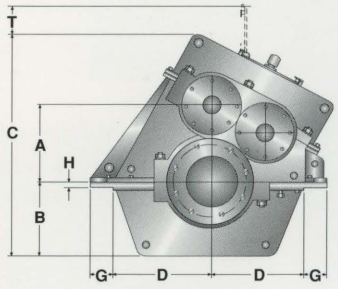
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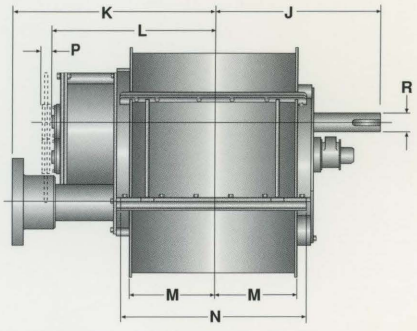
For High-Speed Diesel Applications Up to 1800 rpm

Type RS-HG

Configuration:

Vertical Shaft Offset
Reversing



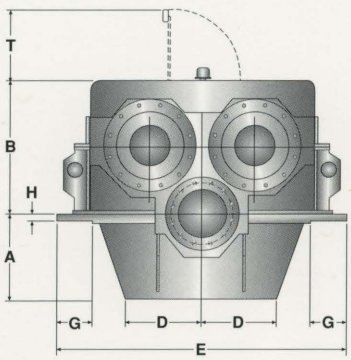


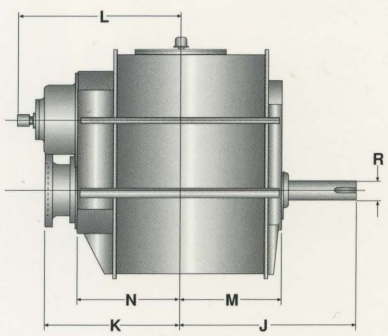
Unit	A	B	C	D	G	H	J	K	L	M	N	P	R	T	Weight
1850	18.5	18.5	48.5	20	6	1.75	29.5	42	34.5	14	32	3	3.75	16	11150
	469.9	470	1232	508	152	45	749	1067	876	356	813	76	95	406	5058
2150	21.5	22	54.5	22	6	1.75	29.5	42	34.5	14	32	3	3.75	16	12750
	546.1	559	1384	559	152	45	749	1067	876	356	813	76	95	406	5783
2450	24.5	26	61.5	25	6	1.75	29.5	42	34.5	14	32	3	3.75	16	14400
	622.3	660	1562	635	152	45	749	1067	876	356	813	76	95	406	6532
2650	26.5	28	70.5	28	6	1.75	29.5	42	34.5	14	32	3	4	16	16700
	673.1	711	1791	711	152	45	749	1067	876	356	813	76	102	406	7575

Type RLS-HG

Configuration:

In-line
Coaxial Shafts
Reversing





Unit	A	B	D	E	G	H	J	K	L	M	N	R	T	Weight
4200	21.0	37.5	20	72	8	1.75	37	35	42	22.63	26.63	4.5	16	20000
	533.4	953	508	1829	203	45	940	889	1067	575	676	114	406	9072
4600	23.0	41.5	20	77	10	1.75	46	35	42	26.63	26.63	5	16	23000
	584.2	1054	508	1956	254	45	1168	889	1067	676	676	127	406	10433

Dimensions shown are average values but may vary depending on ratio, horsepower and customer requirements.
Black dimensions/weights are in inches/pounds. Red dimensions/weights are in millimeters/kilograms.
NOTE: Above dimensions are not to be used for unit installation. Use only a certified installation print.

High-Speed Marine Gearing:

Gearing: Main propulsion gearing is single helical, case-hardened and precision ground. Reversing gears are through-hardened.
Clutches: Externally Mounted; Oil-Cooled; Air-Actuated
Bearings: Double-row, spherical-roller-type radial bearings with a double-row, tapered roller thrust bearing.

High-Speed and Medium-Speed Marine Gearing:

Gear Casing: Three-piece construction axially split through shaft centerlines.
Lubrication: Positive-pressure oil system with pump, oil cooler, duplex filter and pressure-regulating valve.

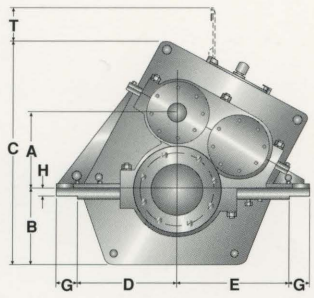
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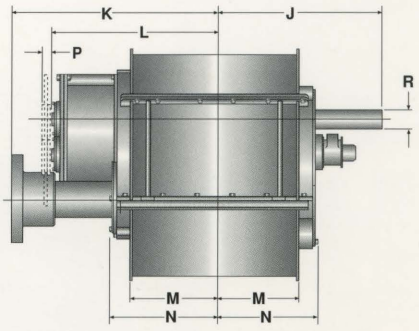
For Medium-Speed Diesel Applications Up to 1100 rpm

Type RS-HG

Configuration:

Vertical Shaft Offset
Reversing



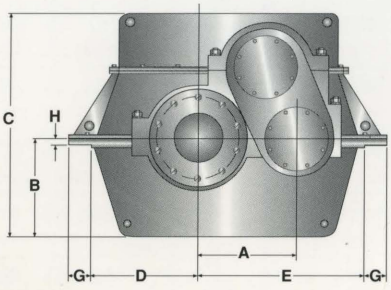


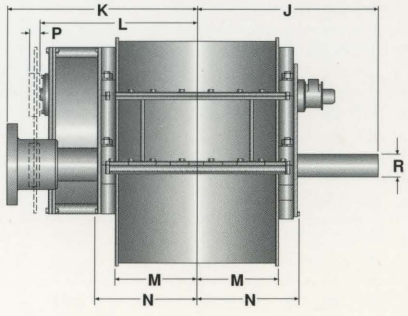
Unit	A	B	C	D	E	G	H	J	K	L	M	N	P	R	T	Weight
1900	19.0	20	58.5	32	35.5	6	2.25	37.5	52	41.75	21.38	26.25	3	5.25	16	16750
	482.6	508	1486	813	902	152	57	953	1321	1061	543	667	76	133	406	7598
2100	21.0	20	61	32	35.5	6	2.25	37.5	52	41.75	21.38	26.25	3	5.25	16	18150
	533.4	508	1549	813	902	152	57	953	1321	1061	543	667	76	133	406	8233
2500	25.25	28	74.5	31.5	31.5	6	2.25	39	49	44.5	23	28.75	3	6.25	7	27650
	641.4	711	1892	800	800	152	57	991	1245	1130	584	730	76	159	178	12542
2800	28.0	28	76.5	31.5	31.5	6	2.25	39	49	44.5	23	28.75	3	6.25	7	30000
	711.2	711	1943	800	800	152	57	991	1245	1130	584	730	76	159	178	13608
3200	32.0	33.5	88.5	36.75	35.25	6	2.25	40.5	43	46.75	23.75	29.5	3	6.5	7	39450
	812.8	851	2248	934	895	152	57	1029	1092	1188	603	749	76	165	178	17894

Type RHS-HG

Configuration:

Horizontal Shaft Offset
Reversing





Unit	A	B	C	D	E	G	H	J	K	L	M	N	P	R	Weight
1900	19.0	20	53.25	23.5	37.5	6	2.25	37.5	52	41.75	21.38	26.25	3	5.25	17650
	482.6	508	1353	597	953	152	57	953	1321	1061	543	667	76	133	8006
2100	21.0	20	53.75	23.5	39.5	6	2.25	37.5	52	41.75	21.38	26.25	3	5.25	18600
	533.4	508	1365	597	1003	152	57	953	1321	1061	543	667	76	133	8437
2500	25.25	28.5	64.5	31.5	31.5	6	2.25	39	49	44.5	23	28.75	3	6.25	27725
	641.4	724	1638	800	800	152	57	991	1245	1130	584	730	76	159	12576
2800	28.0	28.5	64.5	31.5	31.5	6	2.25	39	49	44.5	23	28.75	3	6.25	30150
	711.2	724	1638	800	800	152	57	991	1245	1130	584	730	76	159	13676
3200	32.0	33.5	74	36.75	35.25	6	2.25	40.5	43	46.75	23.75	29.5	3	6.5	40050
	812.8	851	1880	934	895	152	57	1029	1092	1188	603	749	76	165	18166

Dimensions shown are average values but may vary depending on ratio, horsepower and customer requirements.
Black dimensions/weights are in inches/pounds. Red dimensions/weights are in millimeters/kilograms.
NOTE: Above dimensions are not to be used for unit installation. Use only a certified installation print.

Medium-Speed Marine Gearing:

Gearing: Main propulsion gearing is double helical and precision ground. Reversing gears are through-hardened.

Clutches: Externally Mounted; Multi-Disc; Oil-Cooled; Air-Actuated

Bearings: Double-row, spherical-roller-type radial bearings with a double-row, tapered roller thrust bearing designed for full ahead and astern thrust. All bearings housed in carriers to protect the casing bores.

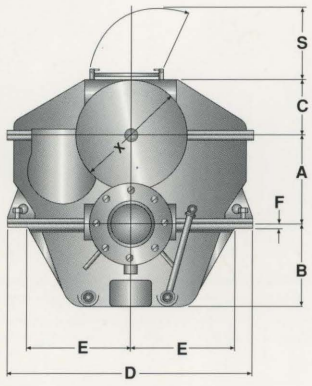
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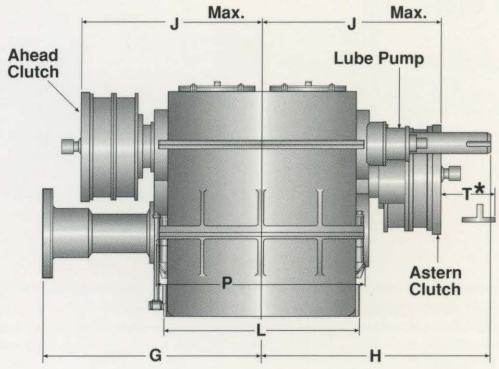
Heavy-Duty Series for Fixed Pitch Propellors

Type RS

Configuration:

Vertical Shaft Offset
Reversing





Unit	A	B	C	D	E	F	G	H	J	L	P	S	T*	X	Weight
2120	21.0 533.4	20.5 521	13 330	58 1473	23 584	1.75 44.5	52.63 1337	TO BE DETERMINED BY MARINE ARCHITECT	45.25 1149	48.88 1242	52.13 1324	18 457	8.81 224	30 762	15750 7144
2520	25.0 635.0	23 584	14.25 362	71 1803	27.5 699	2.0 50.8	55.25 1403		47.31 1202	55 1397	56.5 1435	18 457	8.81 224	30 762	26500 12020
2524	25.0 635.0	23 584	14.25 362	71 1803	27.5 699	2.0 50.8	55.25 1403		47.31 1202	55 1397	56.5 1435	18 457	8.81 224	34.5 876	26800 12156
3024	30.0 762.0	26.75 680	14.63 372	80 2032	32 813	2.0 50.8	43.5 1105		49.06 1246	57 1448	58.5 1486	18 457	8.81 224	34.5 876	27250 12360
3620 3622	36.0 914.4	36 914	24.5 622	90 2286	36 914	2.5 63.5	50.31 1278		50.56 1284	56 1422	59 1499	18 457	8.81 224	34.5 876	34000 15422
3626	36.0 914.4	36 914	24.5 622	90 2286	36 914	2.5 63.5	50.31 1278		52.94 1345	59 1499	62 1575	18 457	8.81 224	44.25 1124	39500 17917
4222	42.0 1066.8	40.5 1029	26 660	100 2540	40 1016	2.5 63.5	52.25 1327		51.69 1313	56.5 1435	61 1549	18 457	8.81 224	44.25 1124	46000 20865
4226	42.0 1066.8	43 1092	28.5 724	100 2540	41 1041	2.5 63.5	56.13 1426		56.88 1445	62.5 1588	69 1753	18 457	10.81 275	49.88 1267	48250 21886
4827	48.0 1219.2	51 1295	29 737	117 2972	49.5 1257	2.5 63.5	59.5 1511		58.5 1486	63.5 1613	70 1778	18 457	10.81 275	49.88 1267	60000 27215
5430	54.0 1371.6	51 1295	33 838	128 3251	52 1321	2.5 63.5	62.5 1588		64.75 1645	71.5 1816	78.5 1994	18 457	10.81 275	49.88 1267	80000 36287

*Clutch Drum Removal Clearance
Dimensions shown are average values but may vary depending on ratio, horsepower and customer requirements.
Black dimensions/weights are in inches/pounds. Red dimensions/weights are in millimeters/kilograms.
NOTE: Above dimensions are not to be used for unit installation. Use only a certified installation print.

Heavy-Duty Marine Gearing — Types RS, RHS, RCS, RCS2S, CS, CSQ, HSQ and VSQ:

Gearing: Precision Double Helical; Through-Hardened

Bearings: Double-row, spherical-roller-type radial bearings with a design life of 100,000 hours at full-load conditions; double-row, tapered roller thrust bearing with full capacity in forward and astern modes. All bearings housed in carriers to protect casing bores. Sleeve radial bearings and tilt-pad thrust bearings are provided with the largest units.

Clutches: External, Split Design Pneumatic Type; Air-Cooled

Gear Casing: Two-piece or three-piece construction axially split through shaft centerlines.

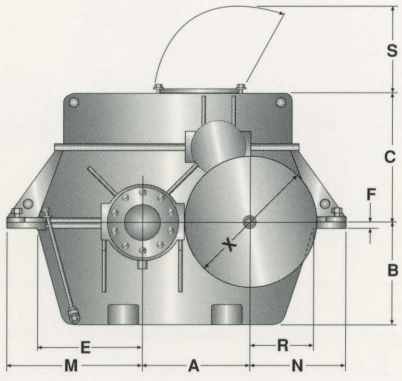
Lubrication: Combination splash and pressure lubrication with internal casing baffles to reduce oil churning and prevent pump cavitation in heavy sea conditions.

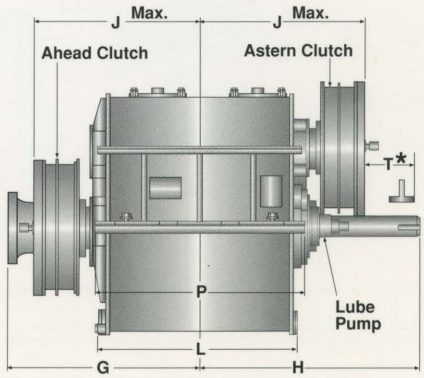
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Type RHS

Configuration:

Horizontal Shaft Offset
Reversing





Unit	A	B	C	E	F	G	H	J	L	M	N	P	R	S	T*	X	Weight
2120	21.0	20.5	30.25	21	1.75	52.63	TO BE DETERMINED BY MARINE ARCHITECT	45.25	49.38	27	19.5	52.13	13.5	18	8.81	30	15000
	533.4	521	768	533	44.5	1337		1149	1254	686	495	1324	343	457	224	762	6804
2520	25.0	28.25	34.06	26	2.0	53.25		47.31	53.5	33	23	57	16	18	8.81	30	22000
	635.0	718	865	660	50.8	1353		1202	1359	838	584	1448	406	457	224	762	9979
2524	25.0	28.25	34.06	26	2.0	53.25		47.31	53.5	33	23	57	16	18	8.81	34.5	24000
	635.0	718	865	660	50.8	1353		1202	1359	838	584	1448	406	457	224	876	10886
3024	30.0	30	37	30	2.0	43.5		49.06	55.5	38	26	58.5	18	18	8.81	34.5	28000
	762.0	762	940	762	50.8	1105		1246	1410	965	660	1486	457	457	224	876	12701
3620	36.0	36	43.75	36	2.5	49.5		53.5	57.5	44.5	34.5	60.5	25.5	18	8.81	34.5	35000
3622	914.4	914	1111	914	63.5	1257		1359	1461	1130	876	1537	648	457	224	876	15876
3626	36.0	36	43.75	36	2.5	51		55	61.5	44.5	34.5	64.5	25.5	18	8.81	44.25	40000
	914.4	914	1111	914	63.5	1295		1397	1562	1130	876	1638	648	457	224	1124	18144
4222	42.0	42	48	41	2.5	52.25		51.69	56.5	50	29	61	20	18	8.81	44.25	46000
	1066.8	1067	1219	1041	63.5	1327		1313	1435	1270	737	1549	508	457	224	1124	20865
4226	42.0	42	48	41	2.5	56.13		56.88	62.5	50	29	69	20	18	10.81	49.88	47000
	1066.8	1067	1219	1041	63.5	1426		1445	1588	1270	737	1753	508	457	275	1267	21319
4827	48.0	51	49.25	47	2.5	59.5		58.5	63.5	56	30	70	21	18	10.81	49.88	60000
	1219.2	1295	1251	1194	63.5	1511		1486	1613	1422	762	1778	533	457	275	1267	27215
5430	54.0	54	64.25	51	3.0	62.5		64.75	71.5	61	33	78.5	25	18	10.81	49.88	80000
	1371.6	1372	1632	1295	76.2	1588		1645	1816	1549	838	1994	635	457	275	1267	36287

*Clutch Drum Removal Clearance
Dimensions shown are average values but may vary depending on ratio, horsepower and customer requirements.
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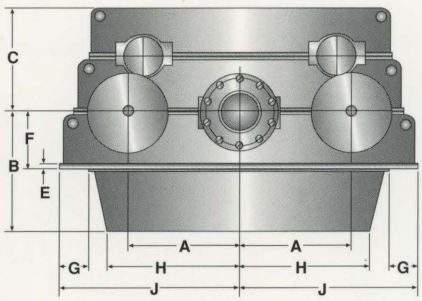
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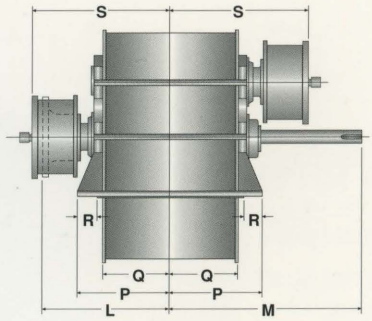
Heavy-Duty Series for Fixed Pitch Propellors

Type RCS

Configuration:

Dual Engine Drive
Reversing



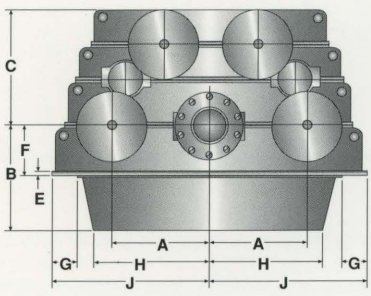


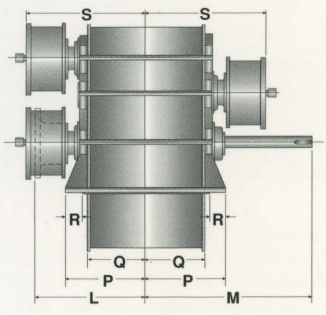
Unit	A	B	C	E	F	G	H	J	L	M	P	Q	R	S	Weight
6607	33.0	32	43	1.25	14.0	4	42	56	33	56	24	17.5	4	42	32000
	838.2	813	1092	32	355.6	102	1067	1422	838	1422	610	445	102	1067	14515
7209	36.0	36	44	1.5	16.0	5	43	61	36	56	26	18.5	4	38	40000
	914.4	914	1118	38	406.4	127	1092	1549	914	1422	660	470	102	965	18144
8414	42.0	38	46	1.75	18.0	6	48	66	45	63	29	21	5	45	55000
	1066.8	965	1168	46	457.2	152	1219	1676	1143	1600	737	533	127	1143	24948
9610	48.0	45	46	1.75	26.0	8	52	75.5	45	65	33	24	6	47	63000
	1219.2	1143	1168	46	660.4	203	1321	1918	1143	1651	838	610	152	1194	28576
9614	48.0	45	46	1.75	26.0	8	52	75.5	48	67	35	25	6	49	67000
	1219.2	1143	1168	46	660.4	203	1321	1918	1219	1702	889	635	152	1245	30391

Type RCS2S

Configuration:

Dual Engine Drive
Reversing
Two Forward Speeds





Unit	A	B	C	E	F	G	H	J	L	M	P	Q	R	S	Weight
7209	36.0	36	48	1.5	16.0	5	43	61	36	56	26	18.5	4	38	38000
	914.4	914	1219	38	406.4	127	1092	1549	914	1422	660	470	102	965	17236
8414	42.0	38	54	1.75	18.0	6	48	66	45	63	29	21	5	45	69000
	1066.8	965	1372	45	457.2	152	1219	1676	1143	1600	737	533	127	1143	31298
9610	48.0	45	60	1.75	26.0	8	52	75.5	45	65	33	24	6	47	90000
	1219.2	1143	1524	45	660.4	203	1321	1918	1143	1651	838	610	152	1194	40823

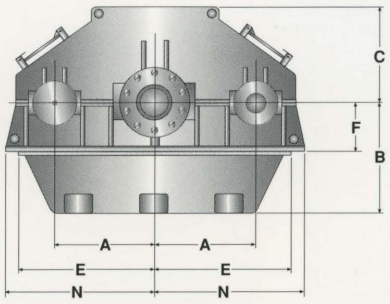
Dimensions shown are average values but may vary depending on ratio, horsepower and customer requirements.
Black dimensions/weights are in inches/pounds. Red dimensions/weights are in millimeters/kilograms.
NOTE: Above dimensions are not to be used for unit installation. Use only a certified installation print.

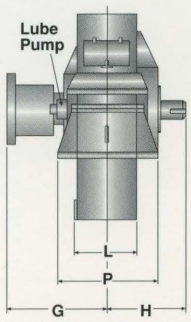
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Heavy-Duty Series for Controllable Pitch Propellors

Type CS

Configuration:
Dual Engine Drive

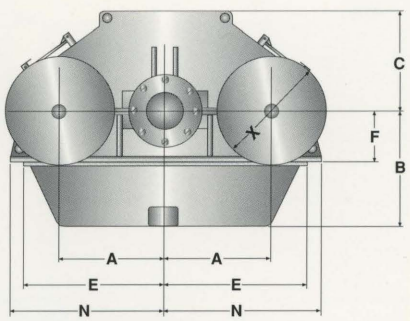


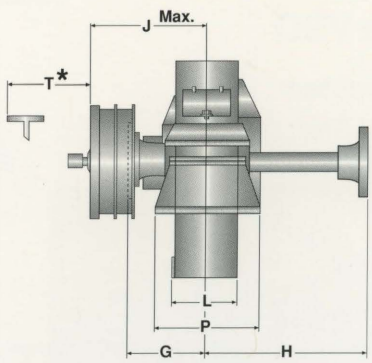


Unit	A	B	C	E	F	G	H	L	N	P	Weight
6607	33.0 838.2	35 889	32 813	42 1067	16.0 406.4	29 737	27 686	15 381	47 1194	34 864	9300 4218
7209	36.0 914.4	39 991	32 813	52 1321	18.0 457.2	34 864	30 762	18 457	57 1448	36 914	15500 7031
8414	42.0 1066.8	42 1067	42 1067	57 1448	18.0 457.2	36 914	34 864	22 559	64 1626	42 1067	21200 9616
9610	48.0 1219.2	48 1219	46 1168	63 1600	20.0 508.0	35 889	35 889	24 610	70 1778	40 1016	29000 13154
9614	48.0 1219.2	48 1219	46 1168	63 1600	20.0 508.0	37 940	37 940	28 711	70 1778	44 1118	33000 14969

Type CSQ

Configuration:
Dual Engine Drive
Disconnect Clutch





Unit	A	B	C	E	F	G	H	J	L	N	P	T*	X	Weight
6607	33.0 838.2	35 889	32 813	42 1067	16.0 406.4	29 737	49 1245	32.75 832	15 381	47 1194	34 864	8.69 221	21.25 540	11000 4990
7209	36.0 914.4	39 991	32 813	52 1321	18.0 457.2	34 864	50 1270	34 864	18 457	57 1448	36 914	8.69 221	24 610	17600 7983
8414	42.0 1066.8	42 1067	42 1067	57 1448	18.0 457.2	36 914	53 1346	36.75 934	22 559	64 1626	42 1067	8.81 224	34.5 876	23500 10659
9610	48.0 1219.2	48 1219	46 1168	63 1600	20.0 508.0	35 889	56 1422	36.25 921	24 610	70 1778	40 1016	8.81 224	38.5 978	32250 14628
9614	48.0 1219.2	48 1219	46 1168	63 1600	20.0 508.0	37 940	58 1473	38.25 972	28 711	70 1778	44 1118	8.81 224	44.25 1124	36000 16329

*Clutch Drum Removal Clearance
Dimensions shown are average values but may vary depending on ratio, horsepower and customer requirements.
Black dimensions/weights are in inches/pounds. Red dimensions/weights are in millimeters/kilograms.
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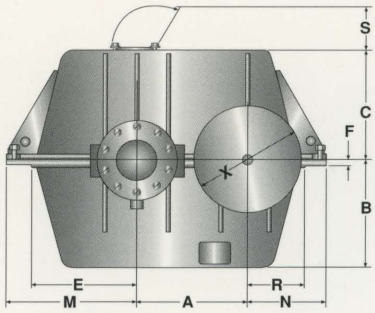
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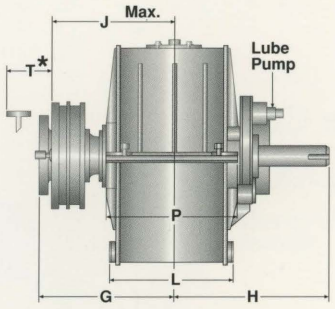
Heavy-Duty Series for Controllable Pitch Propellors

Type HSQ

Configuration:

Horizontal Shaft Offset
Disconnect Clutch



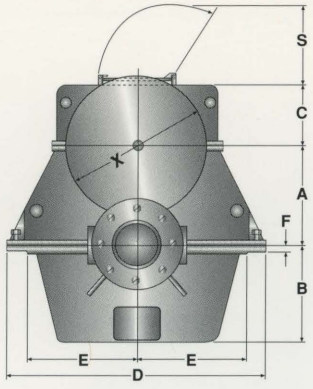


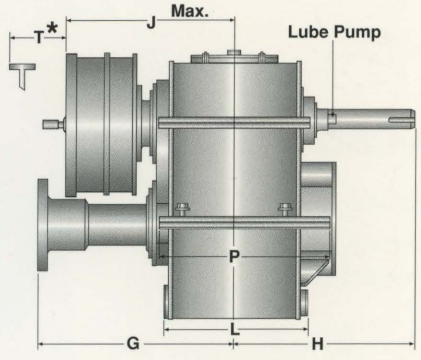
Unit	A	B	C	E	F	G	H	J	L	M	N	P	R	S	T*	X	Weight
3626	36.0	36	36	35.5	2.0	45	51	40	38	43.5	28.5	45	20.5	15	10	34.75	38000
	914.4	914	914	902	50.8	1143	1295	1016	965	1105	724	1143	521	381	254	883	17236
4226	42.0	42	42	40.5	2.5	47	52	42	38	49.5	30.5	45	21.5	15	10	41	40000
	1066.8	1067	1067	1029	63.5	1194	1321	1067	965	1257	775	1143	546	381	254	1041	18144
4827	48.0	48	46	55	3.0	48	55	43	39.5	46	32	46.5	23	15	10	41	55000
	1219.2	1219	1168	1397	76.2	1219	1397	1092	1003	1168	813	1181	584	381	254	1041	24948
5430	54.0	52	52	51	3.5	52	61	47	43	61	35	50	25	15	10	41	78000
	1371.6	1321	1321	1295	88.9	1321	1549	1194	1092	1549	889	1270	635	381	254	1041	35380
6036	60.0	58	58	56	3.5	55	65	49.5	49	66	37	58	27	15	10	49	80000
	1524.0	1473	1473	1422	88.9	1397	1651	1257	1245	1676	940	1473	686	381	254	1245	36287
6636	66.0	65	63	61.5	4.0	55	66	54	49	71.5	39.5	58	29.5	15	10	56.75	95000
	1676.4	1651	1600	1562	101.6	1397	1676	1372	1245	1816	1003	1473	749	381	254	1442	43091

Type VSQ

Configuration:

Vertical Shaft Offset
Disconnect Clutch





Unit	A	B	C	D	E	F	G	H	J	L	P	S	T*	X	Weight
3626	36.0	36	19	87	35.5	2.0	45	51	40	38	45	15	10	34.75	41800
	914.4	914	483	2210	902	50.8	1143	1295	1016	965	1143	381	254	883	18960
4226	42.0	42	21	99	40.5	2.5	47	52	42	38	45	15	10	41	44000
	1066.8	1067	533	2515	1029	63.5	1194	1321	1067	965	1143	381	254	1041	19958
4827	48.0	48	23	110	46	3.0	48	55	43	39.5	46.5	15	10	41	60500
	1219.2	1219	584	2794	1168	76.2	1219	1397	1092	1003	1181	381	254	1041	27442
5430	54.0	52	25	122	51	3.5	52	61	47	43	50	15	10	41	85800
	1371.6	1321	635	3099	1295	88.9	1321	1549	1194	1092	1270	381	254	1041	38918
6036	60.0	58	28	132	56	3.5	55	65	49.5	49	58	15	10	49	88000
	1524.0	1473	711	3353	1422	88.9	1397	1651	1257	1245	1473	381	254	1245	39916
6636	66.0	65	30	143	61.5	4.0	55	66	54	49	58	15	10	56.75	102000
	1676.4	1651	762	3632	1562	101.6	1397	1676	1372	1245	1473	381	254	1442	46266

*Clutch Drum Removal Clearance
Dimensions shown are average values but may vary depending on ratio, horsepower and customer requirements.
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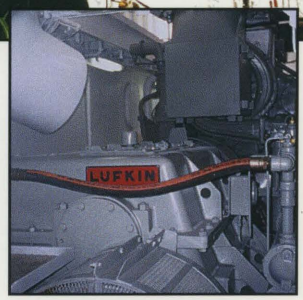
Lufkin Marine Gearing in Service





The "Robert T", a dual-screw vessel, relies on two Lufkin RS2100HG units to provide the exceptional durability required in marine applications.

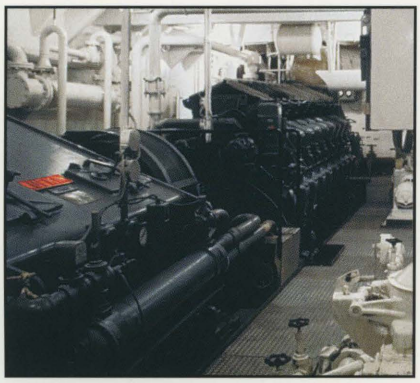




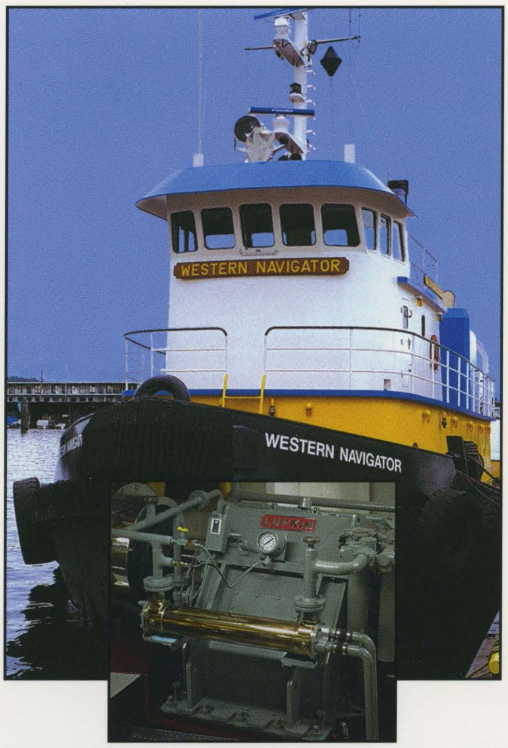
The "Captain Bilbo" is powered by two Lufkin RHS2118 units.



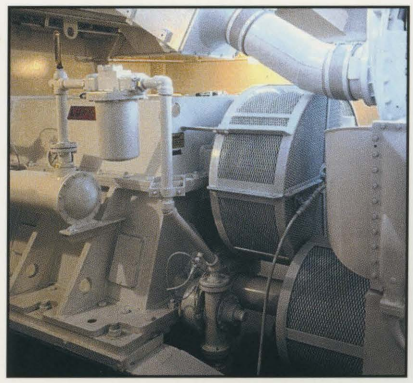
During long hours of operation, the Lufkin gear drives aboard the "Titusville" provide continuous, reliable service.



A Lufkin propulsion drive aboard the vessel "True Grit."



The propulsion system on the "Western Navigator", a twin-screw vessel, includes two Lufkin Model RS2500 drives.



Aboard this vessel, a Lufkin gear drive delivers the high performance critical to extreme operational demands.

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