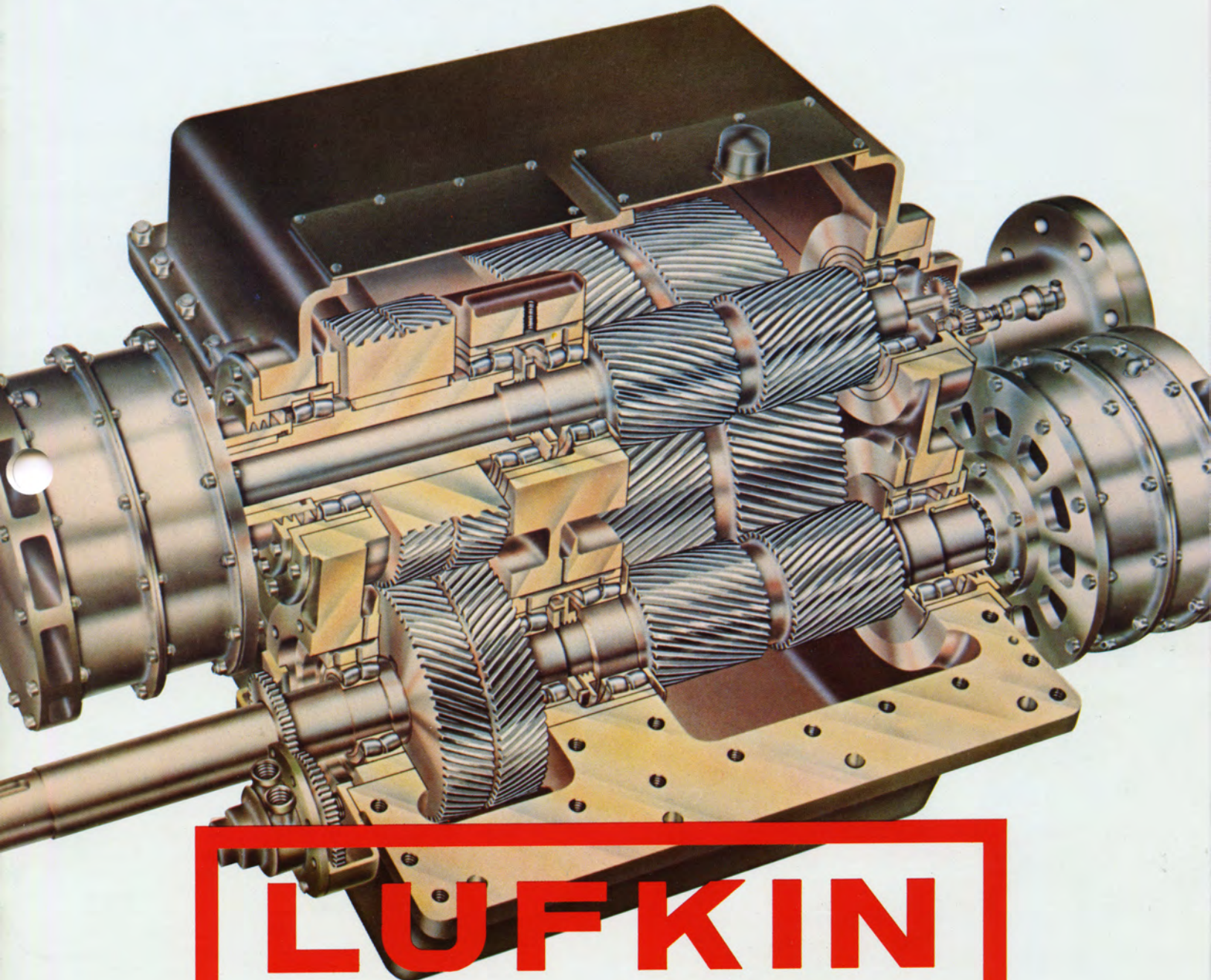
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the standard of excellence

MARINE GEARS



LUFKIN

INDUSTRIES, INC.

CATALOG
NO.
MG-77

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Lufkin's Main Plant, Shown At Left, Covers Approximately 100 Acres.

LUFKIN

INDUSTRIES, INC.

LUFKIN, TEXAS

MILESTONES OF GROWTH

In 1977 LUFKIN will be celebrating seventy five years of service to many thousands of satisfied customers in all parts of the globe. These have been exciting years—full of growth, prosperity, adversity, progress and fulfillment—most necessary ingredients for true corporate maturity.

Each of us here at Lufkin is proud of our Company's contribution to industry. We pride ourselves on being a close-knit team, concerned foremost with providing superior quality products and service to our customers.

Since its beginning in 1902 as a small repair shop, this company has grown, thru farsightedness, bold innovation and sound management to become one of the largest manufacturers of gears and allied heavy equipment in our field. The name LUFKIN, synonymous with QUALITY, is recognized the world over.

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MEMBER OF AGMA

LUFKIN MARINE GEARS . . . . . LUFKIN INDUSTRIES, INC.

MAIN PLANT AND GENERAL OFFICES, PO BOX 849/LUFKIN, TEXAS 75901/CABLE ADDRESS: LUFFO
TELEX THROUGH TWX 910-880-4201

OFFICES IN THE FOLLOWING CITIES

Dallas, Texas 75206
271 Meadows Bldg.
Phone: 214/691-6133

EXPORT OFFICE
Houston, Texas 77036
Suite 152
6610 Harwin Drive
Phone: 713/781-0600
Telex: 76-2678
Cable: "LUFFO" Houston, Texas

New York City Area
100 Menlo Park Office Building
Room 408
Edison, New Jersey 08817
Phone: 201/549-1023
Teletype: 710-998-0559

Maracaibo, Venezuela, S. A.
Apartado 1144
Phone: 061-223966
Cable: Savenmex, Maracaibo (Venezuela)
Telex: 61140

Buenos Aires, Argentina
Esmeralda 155,7° PISO
1035 Buenos Aires, Argentina
Phone: 743-1929

London, W. 1, England
Suite 14 Newton House
118/119 Piccadilly
Phone: 01-493-3983
Telex: 23781
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Houston, Texas 77036
Suite 152
6610 Harwin Drive
Phone: 713/781-6850

Lufkin, Texas 75901
P. O. Box 849
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Engr./Order Dept.: 910-880-4202
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Tulsa, Oklahoma 74105
3025 East Skelly Dr.
Suite 446
Phone: 918/749-6846

Stone Mountain, Georgia 30083
5190 Antelope Lane
Phone: 404/939-3119

Crystal Lake, Illinois 60014
P. O. Box 382
Phone: 815/459-4033

Los Angeles, California Office
P. O. Box 8522
10221 Slater Ave. Suite 222
Fountain Valley, Calif. 92708
Phone: 714/963-0859

Seattle, Washington 98125
10703 Durland Avenue, N. E.
Phone: 206/362-7373

Pittsburgh, Pennsylvania 15235
201 Penn Center Blvd.
Suite 101
Phone: 412/241-5131
412/241-5133

Cleveland, Ohio 44130
Suite 215
6500 Pearl Road
Phone: 216/842-7880
216/842-7881

Baltimore, Maryland Area
P. O. Box 673
Bel Air, Maryland 21014
Phone: 301/879-9264

New Orleans Area
P. O. Box 73373
4636 Sanford St.
Metairie, Louisiana 70033
Phone: 504/885-2841

MARINE GEAR RATIOS

UNIT	STANDARD RATIOS	AVAILABLE RATIOS	UNIT	STANDARD RATIOS	AVAILABLE RATIOS
1414	3, 3½, 4:1	2 to 4:1	4222/4226	5¼, 6:1	2 to 6½:1
1616	3, 3½, 4:1	2 to 4¼:1	4827	—	2 to 6½:1
1818	3, 3½, 4.04:1	2 to 4½:1	5430	—	3 to 6½:1
2120	3, 3½, 4:1	2 to 5:1	6036	—	3 to 6½:1
2520/2524	3½, 4, 4¼, 4¾:1	2 to 5½:1	6636	—	3 to 6½:1
2724	—	2 to 5½:1	RLS3614	5, 6, 7:1	2½ to 7:1
3024	3½, 4, 4¼, 4¾:1	2 to 6:1	RLS4218	5, 6, 6¾:1	2½ to 6¾:1
3620/3622	4, 4½, 5, 5½:1	2 to 6:1	All Others	Ratios on Application	
3626	4½, 5, 5½:1	2 to 6:1			

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LUFKIN

INDUSTRIES, INC.

DESIGN and MANUFACTURING

Rugged conservative LUFKIN Marine Gearing, built to standards of excellence, insures maximum service-free life, minimum overall cost, and your greatest value.

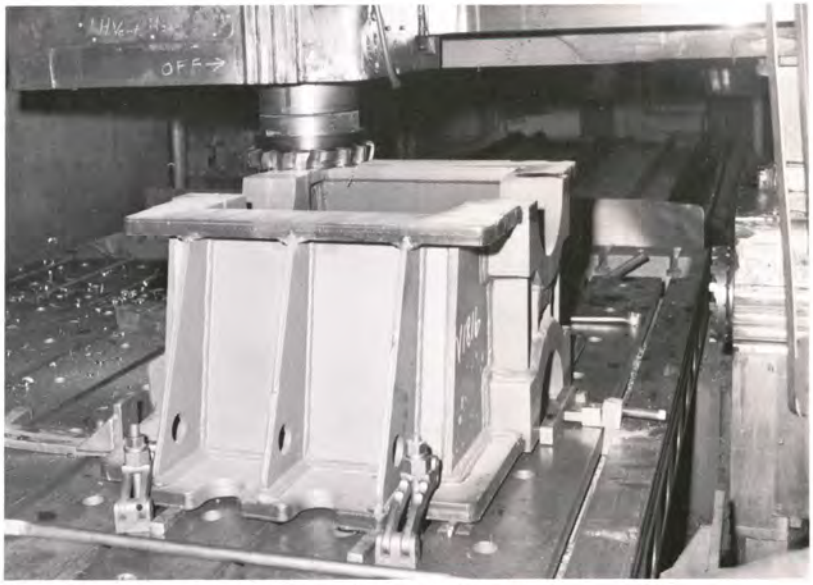
LUFKIN Marine Gears are designed to maximum standard of performance and not to minimum requirements of life and acceptability.

Rotating elements are selected by computer programs to provide maximum strength, durability and best gear-tooth geometry for each class of service.

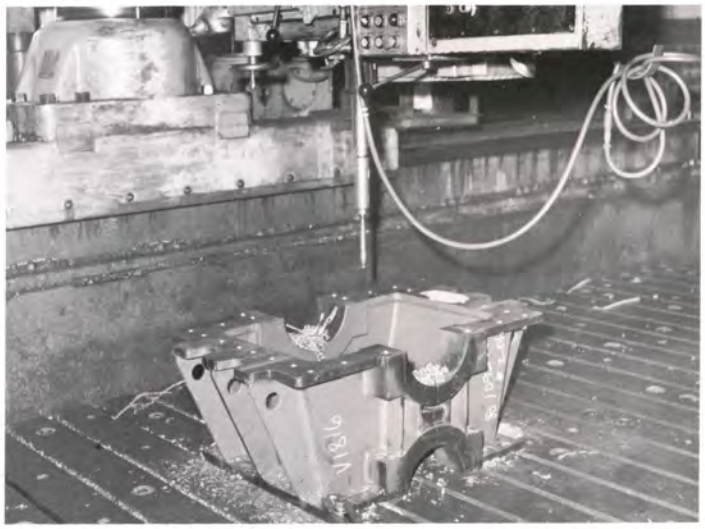
Numerically tape controlled machines insure accuracy of housings, shafts and other critical components.

LUFKIN's quality assurance provides manufacturing with the quality components necessary to produce LUFKIN marine gearing, built to standards of excellence.

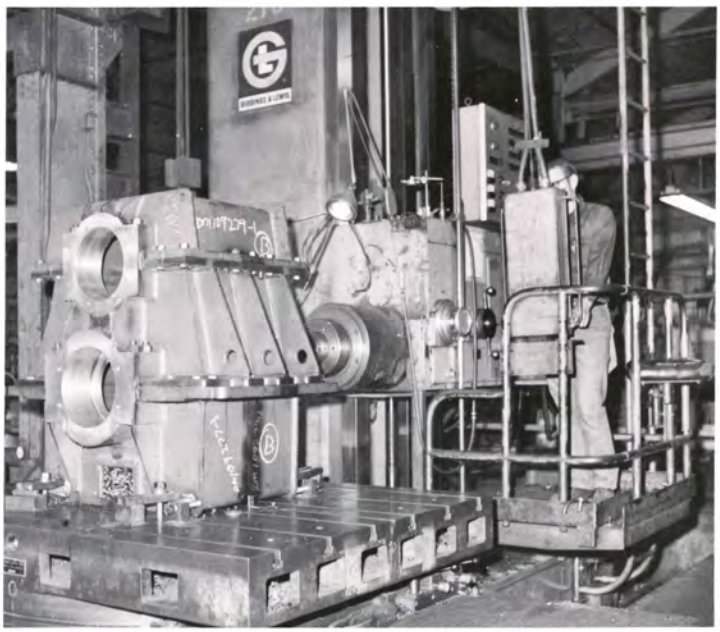
All units are manufactured to meet ABS approval and certification, unless Lloyds, Bureau Veritas, Canadian Board of Steamship Inspection or other certificating agency is specified.



All parting lines are milled to ensure an oil tight joint.



Here the parting line bolt holes are drilled by a numerical controlled machine to ensure correct hole alignment between the various housing sections.



Numerical control machinery is used where possible to ensure both accuracy and fast gear delivery.

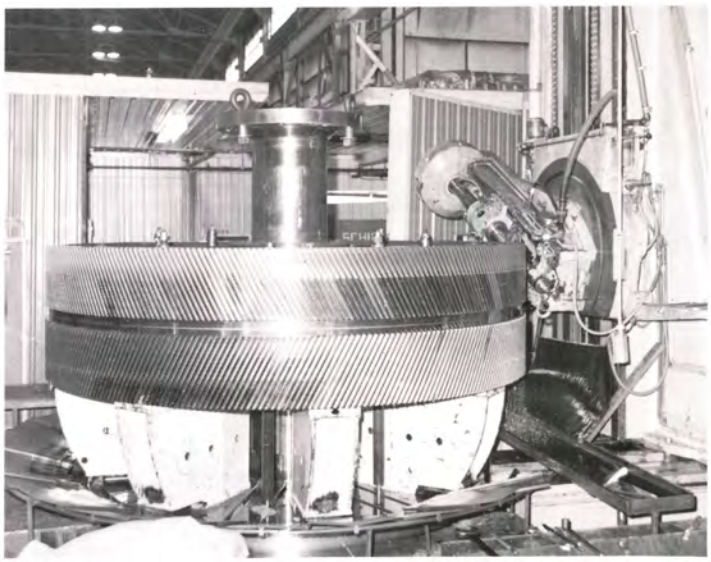


All gear parts undergo close inspection by the quality control department. Here the gear housing is checked for correct bore and alignment.

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The fabricated bull gear is preheated prior to welding the alloy rim to the mild steel side plates.



Lufkin hobbing machines are capable of hobbing gears up to 157 inches in diameter with face widths up to 67 inches.



Part of the largest battery of herringbone gear cutting machines in the world.



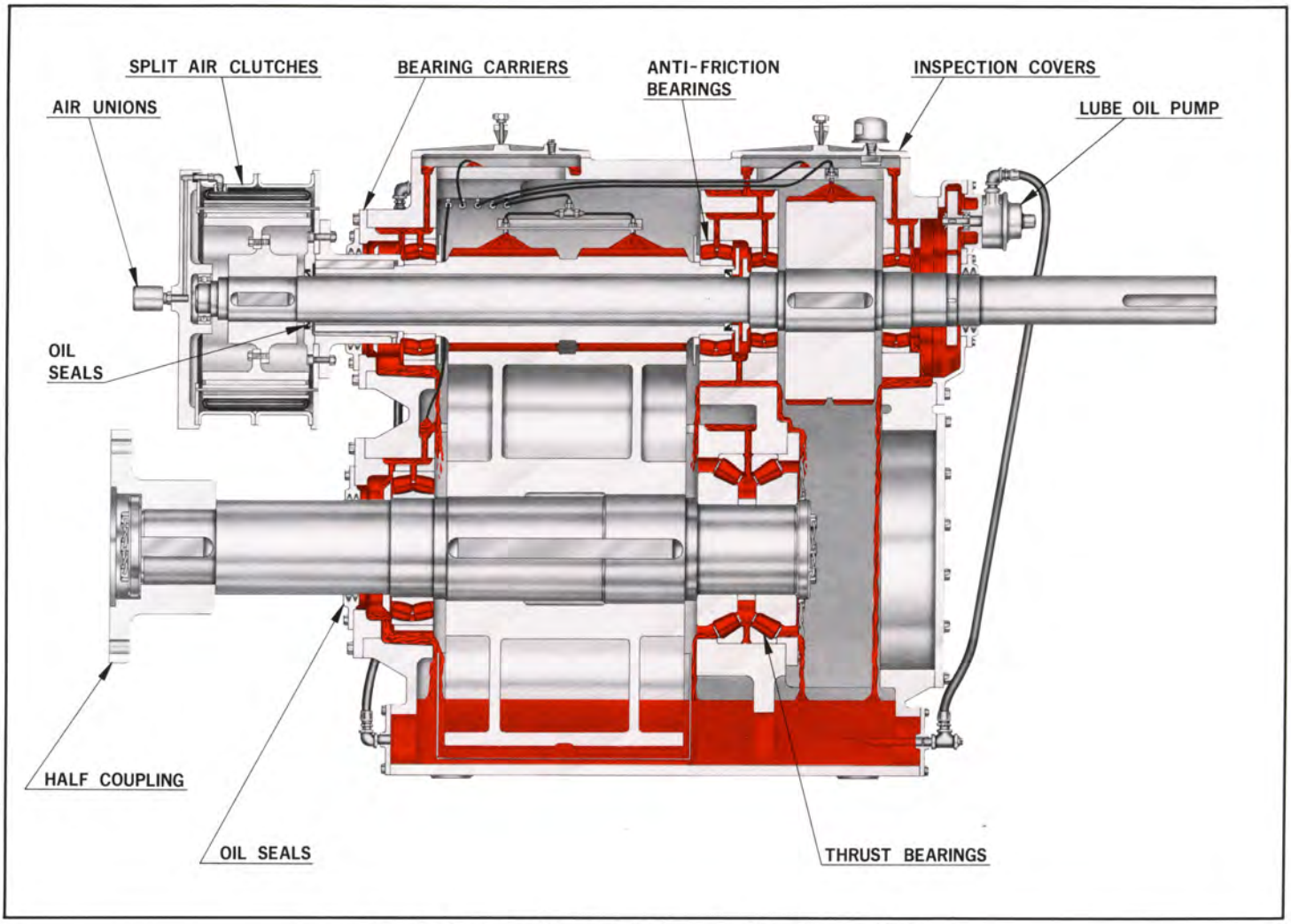
The structural shop has 76000 square feet of welding and material handling space under one roof. Equipped with latest type shearing, rolling, bending and welding equipment.

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GENERAL DESCRIPTION

STANDARD EQUIPMENT

Anti-friction Bearings
Bearing Carriers
Split Pneumatic Clutches
Clutch Guards and Air Unions
Self Contained Lube Oil Systems With Attached Lube Oil Pump Filter
Heat Exchanger for 90° F. Salt or 120° F. Fresh Water Cooling
Relief Valve
Thermometer and Pressure Gauge
Half Coupling Mounted on Output Shaft
Hinged Inspection Covers With Locks



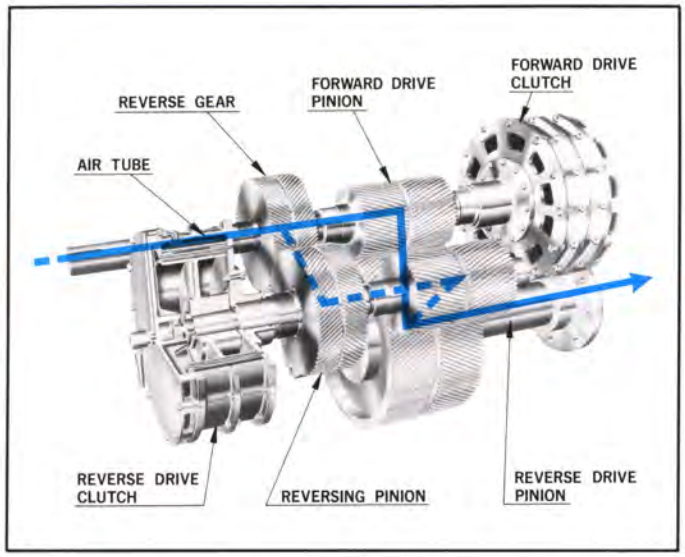
Section Through Forward Pinion and Slow Speed Shaft

OPTIONAL EQUIPMENT

Split Babbitt Lined Journal Bearings
Kingsbury Type Integrally Mounted Thrust Bearing
Electrically Driven Standby Lube Oil Pump and Controls
High Oil Temperature and Low Oil Pressure Contactors
Thermostatic Oil Bypass Valve
Fresh Water Circulating Pump and Motor
Oil Level Alarm Device
Sump Oil Heaters and Control
Clutch "Come Home" Bolts
Clutches for Slip Applications
Propeller Shaft Brakes
Propeller Shaft Half Coupling With Bolts
Air Control System

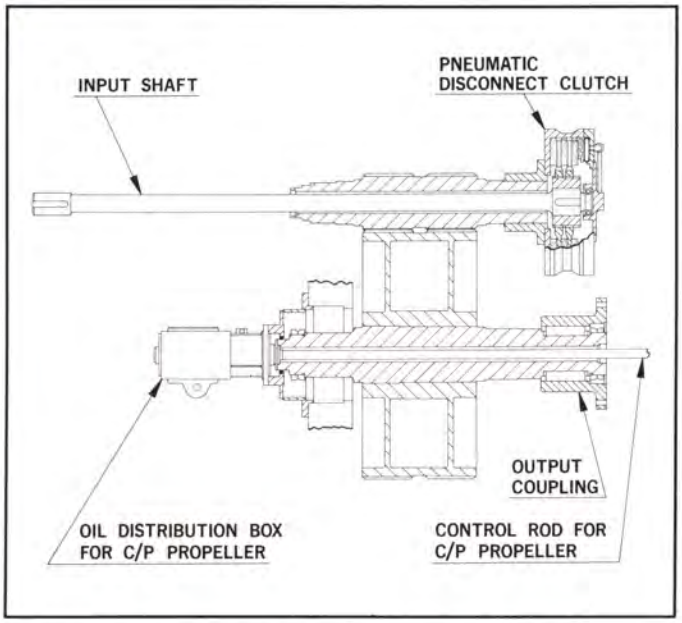
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GENERAL DESCRIPTION



RS & RHS REVERSE REDUCTION GEARING

FORWARD DRIVE
REVERSE DRIVE



SIMPLE REDUCTION GEARING WITH DISCONNECT CLUTCH AND PROVISION FOR C/P PROPELLER

The selection and provision of the torsional coupling fitted between the prime mover and the reduction gear, as well as the torsional vibration analysis of the complete propulsion system, is generally provided by the engine manufacturer.

GEARING

Gearing is precision hobbed or generated double helical with gearing design parameters computer selected. Gear ratings are based on AGMA and applicable marine classification societies' rating formulas (ABS, Lloyd's, etc.). Conservative service factors are applied to the ratings to insure long gear life. Gearing is made from high tensile, through hardened alloy steel forgings. The bull gear and its shaft are statically balanced, while the other gear elements are dynamically balanced.

BEARINGS

All propulsion gear element support bearings, with the exception of the main thrust bearing, are anti-friction, double roll spherical bearings having high internal misalignment capability. All bearings are conservatively rated, having an average design life, based on full load conditions, in excess of 100,000 hours. The thrust bearing is a non-adjustable, double roll, tapered roller bearing type, having full thrust capacity in both the forward and astern modes.

BEARING CARRIERS

All gear element spherical bearings are mounted in bearing carriers with subsequent mounting of the bearing carriers in the gear housing. This design eliminates any wear to the gear housing due to bearing outer race movement.

GEAR HOUSINGS

Gear housings are of rugged, heavy duty design and made of close-grained cast iron or fabricated steel fully stress relieved, utilizing heavy ribbed sections to maintain proper internal gear alignment. Housings are split at each shaft for easy access to rotating elements and bearings. Housing bores are machined on numerically controlled boring mills to obtain nearly perfect bore parallelism.

GEAR AND BEARING LUBRICATION

Each gear is equipped with a self-contained lube oil system, whereby cooled and filtered oil is delivered to the gearing and bearings by a combination of pump feed and splash gravity feed systems. As the bull gear dips into the sump oil reservoir for positive lubrication, oil churning by the bull gear is reduced by the use of an oil pan, which limits the quantity of oil that reaches the gear. The use of the oil pan also reduces the possibility of cavitation of the attached lube oil pump due to vessel motion in heavy seas.

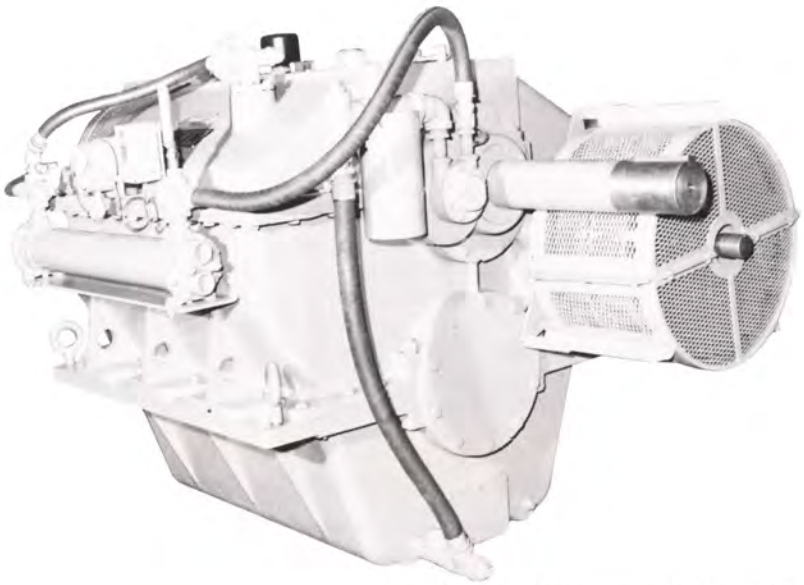
SHAFTING

All shafting is made of heat treated alloy steel and is generously sized, resulting in low working stresses.

CLUTCHES

The split design, pneumatic clutches are mounted externally to the gear and are easily accessible for servicing without disturbing components of the prime mover. All clutches are conservatively sized for positive power transmission and to give long service life.

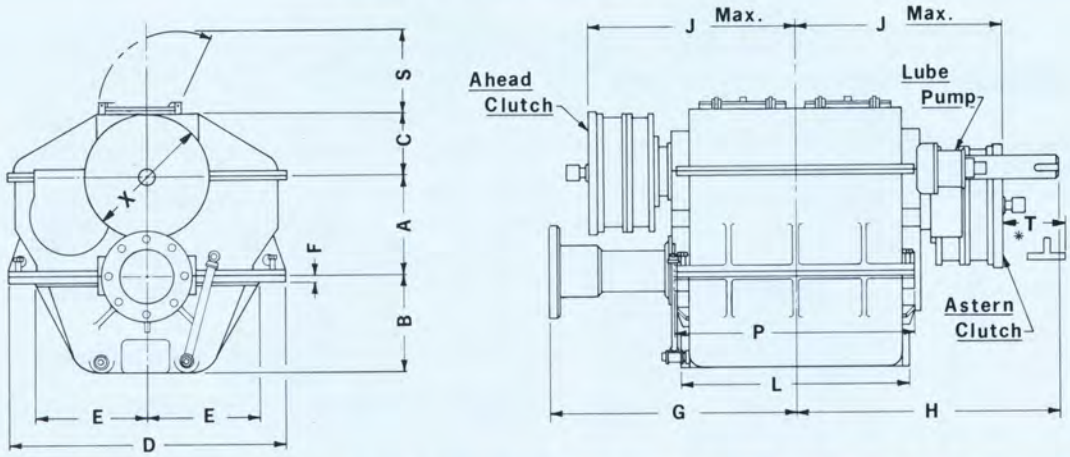
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'RS' SERIES

VERTICAL OFFSET REVERSE REDUCTION GEARING

BASIC DIMENSIONAL DATA



SERIES	A	B	C	D	E	F	G	H	J	L	P	S	T*	X	WEIGHT
1616 IN.	16	16¼	11½	50	20	1½	44 11/16	TO BE DETERMINED BY MARINE ARCHITECT	40 3/16	39½	43	18	8 11/16	21¼	9,600 LBS.
M.M.	406	413	292	1270	508	38	1137		1022	1003	1092	457	221	540	4,354 KGS.
1818 IN.	18	18	10¼	58	21	1½	46⅝		41 11/16	41½	45	18	8 11/16	24	10,500 LBS.
M.M.	457	457	260	1473	533	38	1184		1060	1054	1143	457	221	610	4,763 KGS.
2120 IN.	21	20½	13	58	23	1¾	52⅝		45¼	48⅞	52⅛	18	8 13/16	30	15,750 LBS.
M.M.	533	521	330	1473	584	44	1337		1149	1241	1324	457	224	762	7,144 KGS.
2520 IN.	25	23	14¼	71	27½	2	55¼		47 5/16	55	56½	18	8 13/16	30	26,500 LBS.
M.M.	635	584	362	1803	699	51	1403		1202	1397	1435	457	224	762	12,020 KGS.
2524 IN.	25	23	14¼	71	27½	2	55¼		47 5/16	55	56½	18	8 13/16	34½	26,800 LBS.
M.M.	635	584	362	1803	699	51	1403		1202	1397	1435	457	224	876	12,156 KGS.
3024 IN.	30	26¾	14⅝	80	32	2	43½		49 1/16	57	58½	18	8 13/16	34½	27,250 LBS.
M.M.	762	679	371	2032	813	51	1105		1246	1448	1486	457	224	876	12,360 KGS.
3620 IN.	36	36	24½	90	36	2½	50 5/16		50 9/16	56	59	18	8 13/16	34½	34,000 LBS.
3622 M.M.	914	914	622	2286	914	64	1278		1284	1422	1499	457	224	876	15,422 KGS.
3626 IN.	36	36	24½	90	36	2½	50 5/16		52 15/16	59	62	18	8 13/16	44¼	39,500 LBS.
M.M.	914	914	622	2286	914	64	1278		1345	1499	1575	457	224	1124	17,917 KGS.
4222 IN.	42	40½	26	100	40	2½	52¼		51 11/16	56½	61	18	8 13/16	44¼	46,000 LBS.
M.M.	1067	1029	660	2540	1016	64	1327		1313	1435	1549	457	224	1124	20,865 KGS.
4226 IN.	42	43	28½	100	41	2½	56⅛		56⅞	62½	69	18	10 13/16	49⅞	48,250 LBS.
M.M.	1067	1092	724	2540	1041	64	1426		1445	1588	1752	457	275	1267	21,886 KGS.
4827 IN.	48	51	29	117	49½	2½	59½		58½	63½	70	18	10 13/16	49⅞	60,000 LBS.
M.M.	1219	1295	737	2972	1257	64	1511		1486	1613	1778	457	275	1267	27,216 KGS.
5430 IN.	54	51	33	128	52	2½	62½		64¾	71½	78½	18	10 13/16	49⅞	80,000 LBS.
M.M.	1372	1295	838	3251	1321	64	1588		1645	1816	1994	457	275	1267	36,288 KGS.

*Clutch Drum Removal Clearance

Dimensions shown are average values but may vary depending on ratio, horsepower, and customer requirements.

Note: Above dimensions are not to be used for installation.
USE CERTIFIED INSTALLATION PRINT.

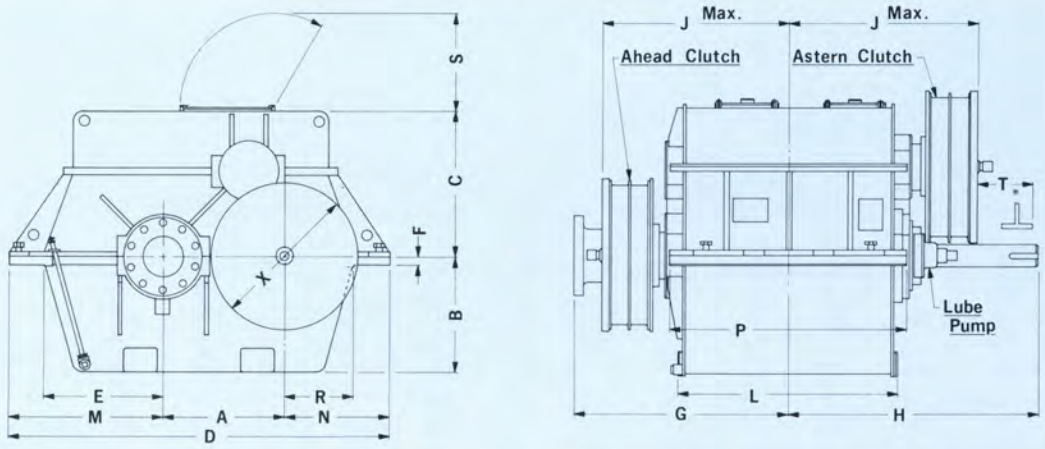
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'RHS' SERIES

HORIZONTAL OFFSET REVERSE REDUCTION GEARING

BASIC DIMENSIONAL DATA

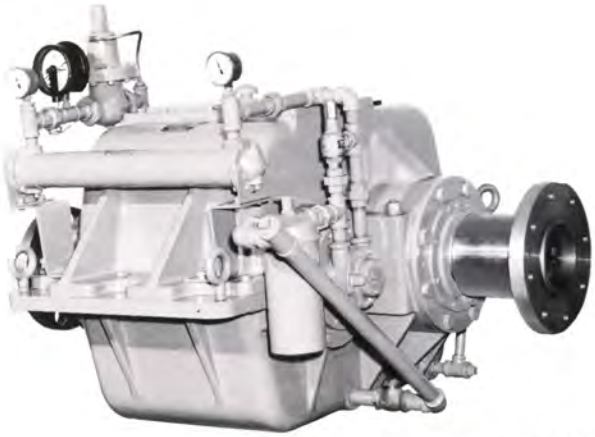


SERIES	A	B	C	D	E	F	G	H	J	L	M	N	P	R	S	T*	X	WEIGHT
1616 IN.	16	16¼	25¼	53	17	1½	44 11/16	TO BE DETERMINED BY MARINE ARCHITECT	40 3/16	39½	22	15	43	10	18	8 11/16	21¼	9,600 LBS.
M.M.	406	413	641	1346	432	38	1137		1022	1003	559	381	1092	254	457	221	540	4,355 KGS.
1818 IN.	18	20¼	28⅜	59	18	1½	46⅝		41 11/16	43	24	17	45	11	18	8 11/16	24	11,500 LBS.
M.M.	457	514	721	1497	457	38	1184		1059	1092	610	432	1143	279	457	221	610	5,216 KGS.
2120 IN.	21	20½	30¼	67½	21	1¾	52⅝		45¼	49⅜	27	19½	52⅛	13½	18	8 13/16	30	15,000 LBS.
M.M.	533	521	768	1715	533	44	1337		1149	1254	686	495	1324	343	457	224	762	6,804 KGS.
2520 IN.	25	28¼	34 1/16	81	26	2	53¼		47 5/16	53½	33	23	57	16	18	8 13/16	30	22,000 LBS.
M.M.	635	718	865	2057	660	51	1353		1202	1359	838	584	1448	406	457	224	762	9,979 KGS.
2524 IN.	25	28¼	34 1/16	81	26	2	53¼		47 5/16	53½	33	23	57	16	18	8 13/16	34½	24,000 LBS.
M.M.	635	718	865	2057	660	51	1353		1202	1359	838	584	1448	406	457	224	876	10,886 KGS.
3024 IN.	30	30	37	94	30	2	43½		49 1/16	55½	38	26	58½	18	18	8 13/16	34½	28,000 LBS.
M.M.	762	762	940	2388	762	51	1105		1246	1410	965	660	1486	457	457	224	876	12,701 KGS.
3620 IN.	36	36	43¾	105	36	2½	49½		53½	57½	44½	34½	60½	25½	18	8 13/16	34½	35,000 LBS.
3622 M.M.	914	914	1111	2667	914	64	1257		1359	1461	1130	876	1537	648	457	224	876	15,876 KGS.
3626 IN.	36	36	43¾	105	36	2½	51		55	61½	44½	34½	64½	25½	18	8 13/16	44¼	40,000 LBS.
M.M.	914	914	1111	2667	914	64	1295		1397	1562	1130	876	1638	648	457	224	1124	18,144 KGS.
4222 IN.	42	42	48	121	41	2½	52¼		51 11/16	56½	50	29	61	20	18	8 13/16	44¼	46,000 LBS.
M.M.	1067	1067	1219	3073	1041	64	1327		1313	1435	1270	737	1549	508	457	224	1124	20,866 KGS.
4226 IN.	42	42	48	121	41	2½	56⅛		56⅞	62½	50	29	69	20	18	10 13/16	49⅞	47,000 LBS.
M.M.	1067	1067	1219	3073	1041	64	1426		1445	1588	1270	737	1753	508	457	275	1267	21,319 KGS.
4827 IN.	48	51	49¼	134	47	2½	59½		58½	63½	56	30	70	21	18	10 13/16	49⅞	60,000 LBS.
M.M.	1219	1295	1251	3404	1194	64	1511		1486	1613	1422	762	1778	533	457	275	1267	27,216 KGS.
5430 IN.	54	54	64¼	150	51	3	62½		64¾	71½	61	33	78½	25	18	10 13/16	49⅞	80,000 LBS.
M.M.	1372	1372	1632	3810	1295	76	1588		1645	1816	1549	889	1994	635	457	275	1267	36,288 KGS.

Dimensions shown are average values but may vary depending on ratio, horsepower, and customer requirements.

Note: Above dimensions are not to be used for installation.
USE CERTIFIED INSTALLATION PRINT.

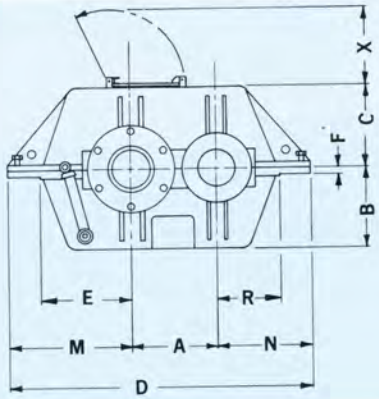
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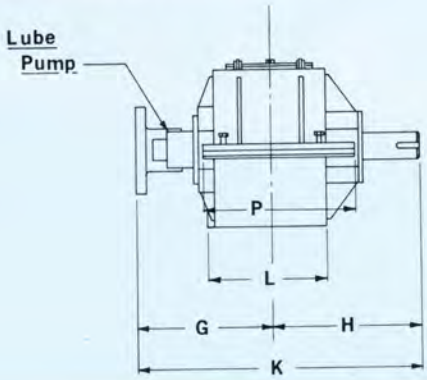


'H' SERIES

HORIZONTAL OFFSET REDUCTION GEARING

BASIC DIMENSIONAL DATA



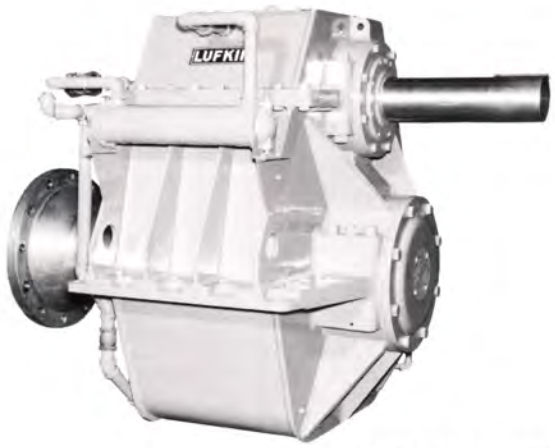


SERIES	A	B	C	D	E	F	G	H	K	L	M	N	P	R	X	WEIGHT
1414 IN.	14	16	16	50	15	1½	26	26¼	52¼	24½	20	16	27½	11	15	4,100 LBS.
M.M.	356	406	406	1270	381	38	660	667	1327	622	508	406	699	279	381	1,860 KGS.
1616 IN.	16	18	18	55	17	1½	28½	28¼	56¾	26½	22	17	29½	12	15	6,000 LBS.
M.M.	406	457	457	1397	432	38	724	1181	1441	673	559	305	749	305	381	2,722 KGS.
1818 IN.	18	19½	19½	60	18½	1½	30¼	30¼	60½	28½	24½	18½	31½	12½	15	7,800 LBS.
M.M.	457	495	495	1524	470	38	768	768	1536	724	622	470	800	315	381	3,538 KGS.
2120 IN.	21	22	22	68	21	1½	32¼	32¼	64½	30½	27	20	33½	14	15	10,250 LBS.
M.M.	533	559	559	1727	533	38	819	819	1638	775	686	508	851	356	381	4,649 KGS.
2520 IN.	25	25½	25½	77	24½	1½	32¼	32¼	64½	30½	30½	21½	33½	15½	15	16,200 LBS.
M.M.	635	648	648	1956	622	38	819	819	1638	775	775	546	851	394	381	7,348 KGS.
2524 IN.	25	25½	25½	77	24½	1½	34¼	34¼	68½	35	30½	21½	38	15½	15	18,000 LBS.
M.M.	635	648	648	1956	622	38	870	870	1740	889	775	546	965	394	381	8,165 KGS.
2724 IN.	27	28	28	86	27½	1½	34¼	34¼	68½	35	34½	24½	38	17½	15	20,700 LBS.
M.M.	686	711	711	2184	699	38	870	870	1740	889	876	622	965	445	381	9,390 KGS.
3024 IN.	30	31	29	92	30	2	34¼	34¼	68½	36½	37	25	42½	18	15	23,850 LBS.
M.M.	762	787	737	2337	762	51	870	870	1740	927	940	635	1080	457	381	10,818 KGS.
3620 IN.	36	36	36	108	35½	2	36½	36½	73	33	43½	28½	40	17½	15	27,450 LBS.
M.M.	914	914	914	2745	902	51	927	927	1854	838	1105	724	1016	445	381	12,451 KGS.
3622 IN.	36	36	36	108	35½	2	36½	36½	73	33	43½	28½	40	17½	15	28,000 LBS.
M.M.	914	914	914	2745	902	51	927	927	1854	838	1105	724	1016	445	381	12,701 KGS.
3626 IN.	36	36	36	108	35½	2	38½	39	77½	38	43½	28½	45	17½	15	34,200 LBS.
M.M.	914	914	914	2745	902	51	978	991	1969	965	1105	724	1143	445	381	15,513 KGS.
4222 IN.	42	42	42	122	40½	2½	41	38	79	34	49½	30½	41	21½	15	34,200 LBS.
M.M.	1067	1067	1067	3099	1029	64	1041	965	2007	864	1257	775	1041	546	381	15,513 KGS.
4226 IN.	42	42	42	122	40½	2½	43	40	83	38	49½	30½	45	21½	15	36,000 LBS.
M.M.	1067	1067	1067	3099	1029	64	1092	1016	2108	965	1257	775	1143	546	381	16,330 KGS.
4827 IN.	48	48	46	135	46	3	47	43	90	39½	55	32	46½	23	15	49,500 LBS.
M.M.	1219	1219	1168	3429	1168	76	1194	1092	2286	1003	1397	813	1181	584	381	22,453 KGS.
5430 IN.	54	52	52	150	51	3½	49	49	98	43	61	33	50	25	15	70,200 LBS.
M.M.	1372	1320	1321	3810	1295	89	1245	1245	2489	1092	1549	838	1270	635	381	31,843 KGS.
6036 IN.	60	58	58	163	56	3½	52½	52½	105	49	66	37	58	27	15	72,000 LBS.
M.M.	1524	1473	1473	4140	1422	89	1334	1334	2667	1245	1676	940	1473	689	381	32,659 KGS.
6636 IN.	66	65	63	177	61½	4	53½	53½	107	49	72½	38	58	29½	15	85,500 LBS.
M.M.	1676	1651	1600	4496	1562	102	1359	1359	2718	1245	1842	965	1473	749	381	38,783 KGS.

Dimensions shown are average values but may vary depending on ratio, horsepower, and customer requirements.

Note: Above dimensions are not to be used for installation.
USE CERTIFIED INSTALLATION PRINT.

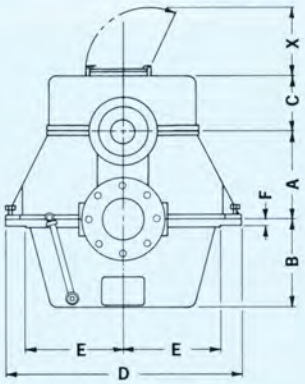
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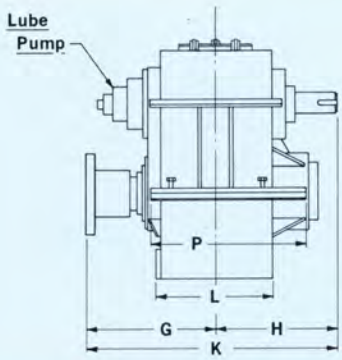


'V' SERIES

VERTICAL OFFSET REDUCTION GEARING

BASIC DIMENSIONAL DATA





SERIES	A	B	C	D	E	F	G	H	K	L	P	X	WEIGHT
1414 IN.	14	16	12	40	15	1½	26	26¼	52¼	24½	27½	15	4,500 LBS.
M.M.	356	406	305	1016	381	38	660	667	1327	622	699	381	2,041 KGS.
1616 IN.	16	18	12½	44	17	1½	28½	28¼	56¾	26½	29½	15	6,600 LBS.
M.M.	406	457	318	1118	432	38	724	1181	1441	673	749	381	2,994 KGS.
1818 IN.	18	19½	13	49	18½	1½	30¼	30¼	60½	28½	31½	15	8,500 LBS.
M.M.	457	495	330	1245	470	38	768	768	1537	724	800	381	3,856 KGS.
2120 IN.	21	22	14	54	21	1½	32¼	32¼	64½	30½	33½	15	11,200 LBS.
M.M.	533	559	356	1372	533	38	819	819	1638	775	851	381	5,080 KGS.
2520 IN.	25	25½	15½	61	24½	1½	32¼	32¼	64½	30½	33½	15	18,000 LBS.
M.M.	635	648	394	1549	622	38	819	819	1638	775	851	381	8,165 KGS.
2524 IN.	25	25½	15½	61	24½	1½	34¼	34¼	68½	35	38	15	20,000 LBS.
M.M.	635	648	394	1549	622	38	870	870	1740	889	965	381	9,072 KGS.
2724 IN.	27	28	16	69	27½	1½	34¼	34¼	68½	35	38	15	23,000 LBS.
M.M.	686	711	406	1753	699	38	870	870	1740	889	965	381	10,433 KGS.
3024 IN.	30	31	17	74	30	2	34¼	34¼	68½	35	38	15	26,500 LBS.
M.M.	762	787	432	1880	762	51	870	870	1740	889	965	381	12,020 KGS.
3620-22 IN.	36	36	19	87	35½	2	36½	36½	73	33	40	15	30,500 LBS.
M.M.	914	914	483	2210	902	51	927	927	1854	838	1016	381	13,835 KGS.
3626 IN.	36	36	19	87	35½	2	38½	39	77½	38	45	15	38,000 LBS.
M.M.	914	914	483	2210	902	51	978	991	1969	965	1143	381	17,236 KGS.
4222 IN.	42	42	21	99	40½	2½	41	38	79	34	41	15	38,000 LBS.
M.M.	1067	1067	533	2515	1029	64	1041	965	2007	864	1041	381	17,236 KGS.
4226 IN.	42	42	21	99	40½	2½	43	40	83	38	45	15	40,000 LBS.
M.M.	1067	1067	533	2515	1029	64	1092	1016	2108	965	1143	381	18,144 KGS.
4827 IN.	48	48	23	110	46	3	47	43	90	39½	46½	15	55,000 LBS.
M.M.	1219	1219	584	2794	1168	76	1194	1092	2286	1003	1181	381	24,948 KGS.
5430 IN.	54	52	25	122	51	3	49	49	98	43	50	15	78,000 LBS.
M.M.	1372	1320	635	3099	1295	76	1245	1245	2489	1092	1270	381	35,381 KGS.
6036 IN.	60	58	28	132	56	3½	52½	52½	105	49	58	15	80,000 LBS.
M.M.	1524	1473	711	3353	1422	89	1334	1334	2667	1245	1473	381	36,288 KGS.
6636 IN.	66	65	30	143	61½	4	53½	53½	107	49	58	15	95,000 LBS.
M.M.	1676	1651	762	3632	1562	102	1359	1359	2718	1245	1473	381	43,092 KGS.

Dimensions shown are average values but may vary depending on ratio, horsepower, and customer requirements.

Note: Above dimensions are not to be used for installation.
USE CERTIFIED INSTALLATION PRINT.

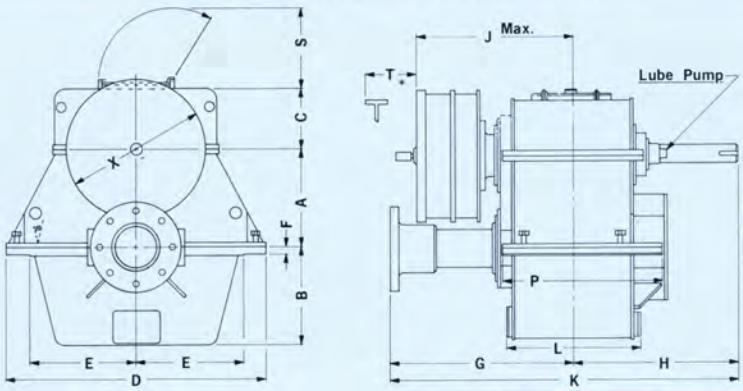
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'VSQ' SERIES

VERTICAL OFFSET GEARING WITH DISCONNECT CLUTCH

BASIC DIMENSIONAL DATA



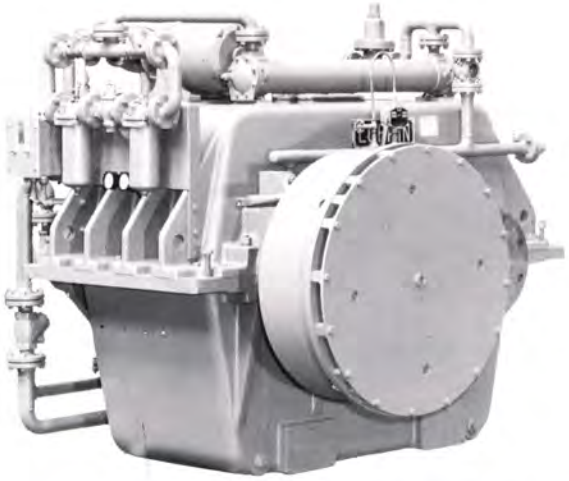
SERIES	A	B	C	D	E	F	G	H	J	K	L	P	S	T*	X	WEIGHT
1414 IN.	14	16	12	40	15	1½	34½	38½	29½	73	24½	27½	15	8	18¾	4,950 LBS.
M.M.	356	406	305	1016	381	38	876	978	749	1854	622	699	381	203	476	2,245 KGS.
1616 IN.	16	18	12½	44	17	1½	36½	40½	31½	77	26½	29½	15	8	20	7,260 LBS.
M.M.	406	457	318	1118	432	38	927	1029	800	1956	673	749	381	203	508	3,293 KGS.
1818 IN.	18	19½	13	49	18½	1½	38	42½	32¾	80½	28½	31½	15	8	22	9,350 LBS.
M.M.	457	495	330	1245	470	38	965	1080	832	2045	724	800	381	203	559	4,241 KGS.
2120 IN.	21	22	14	54	21	1½	41	44½	35¼	85½	30½	33½	15	8	29	12,320 LBS.
M.M.	533	559	356	1372	533	38	1041	1130	895	2172	775	851	381	203	737	5,588 KGS.
2520 IN.	25	25½	15½	61	24½	1½	41	45½	35¼	86½	30½	33½	15	8	29	19,800 LBS.
M.M.	635	648	394	1549	622	38	1041	1156	895	2197	775	851	381	203	737	8,981 KGS.
2524 IN.	25	25½	15½	61	24½	1½	42	47¾	37½	89¾	35	38	15	8	31	22,000 LBS.
M.M.	635	648	394	1549	622	38	1067	1213	953	2280	889	965	381	203	787	9,979 KGS.
2724 IN.	27	28	16	69	27½	1½	42	47¾	37½	89¾	35	38	15	8	31	25,300 LBS.
M.M.	686	711	406	1753	699	38	1067	1213	953	2280	889	965	381	203	787	11,476 KGS.
3024 IN.	30	31	17	74	30	2	42	48¾	37½	90¾	35	38	15	8	31	29,150 LBS.
M.M.	762	787	432	1880	762	51	1067	1238	953	2305	889	965	381	203	787	13,222 KGS.
3620 IN.	36	36	19	87	35½	2	41	48¾	36½	89¾	33	40	15	8	31	33,550 LBS.
3622 M.M.	914	914	483	2210	901	51	1041	1238	927	2280	838	1016	381	203	787	15,218 KGS.
3626 IN.	36	36	19	87	35½	2	45	51	40	96	38	45	15	10	34¾	41,800 LBS.
M.M.	914	914	483	2210	901	51	1143	1295	1016	2438	965	1143	381	254	883	18,960 KGS.
4222 IN.	42	42	21	99	40½	2½	43	50	38	93	34	41	15	10	34¾	41,800 LBS.
M.M.	1067	1067	533	2515	1029	64	1092	1270	965	2362	864	1041	381	254	883	18,960 KGS.
4226 IN.	42	42	21	99	40½	2½	47	52	42	99	38	45	15	10	41	44,000 LBS.
M.M.	1067	1067	533	2515	1029	64	1194	1321	1067	2515	965	1143	381	254	1041	19,958 KGS.
4827 IN.	48	48	23	110	46	3	48	55	43	103	39½	46½	15	10	41	60,500 LBS.
M.M.	1219	1219	584	2794	1168	76	1219	1397	1092	2616	1003	1181	381	254	1041	27,443 KGS.
5430 IN.	54	52	25	122	51	3½	52	61	47	113	43	50	15	10	41	85,800 LBS.
M.M.	1372	1321	635	3099	1295	89	1321	1549	1194	2870	1092	1270	381	254	1041	38,919 KGS.
6036 IN.	60	58	28	132	56	3½	55	65	49½	120	49	58	15	10	49	88,000 LBS.
M.M.	1524	1473	711	3353	1422	89	1397	1651	1257	3048	1245	1473	381	254	1245	39,916 KGS.
6636 IN.	66	65	30	143	61½	4	55	66	54	121	49	58	15	10	56¾	102,000 LBS.
M.M.	1676	1651	762	3632	1562	102	1397	1676	1372	3073	1243	1473	381	254	1441	46,267 KGS.

*Clutch Drum Removal Clearance

Dimensions shown are average values but may vary depending on ratio, horsepower, and customer requirements.

Note: Above dimensions are not to be used for installation.
USE CERTIFIED INSTALLATION PRINT.

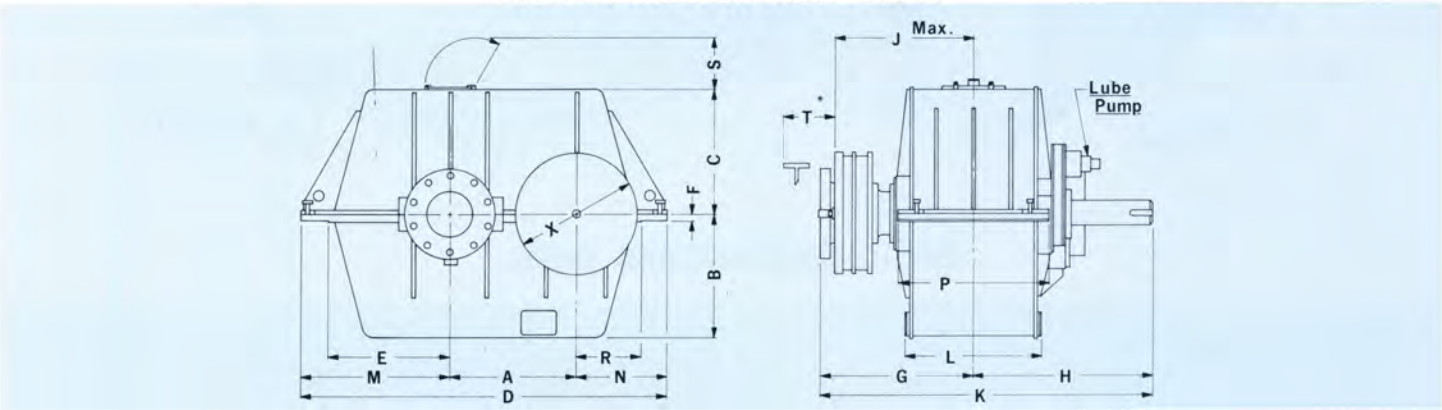
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'HSQ' SERIES

HORIZONTAL OFFSET GEARING WITH DISCONNECT CLUTCH

BASIC DIMENSIONAL DATA



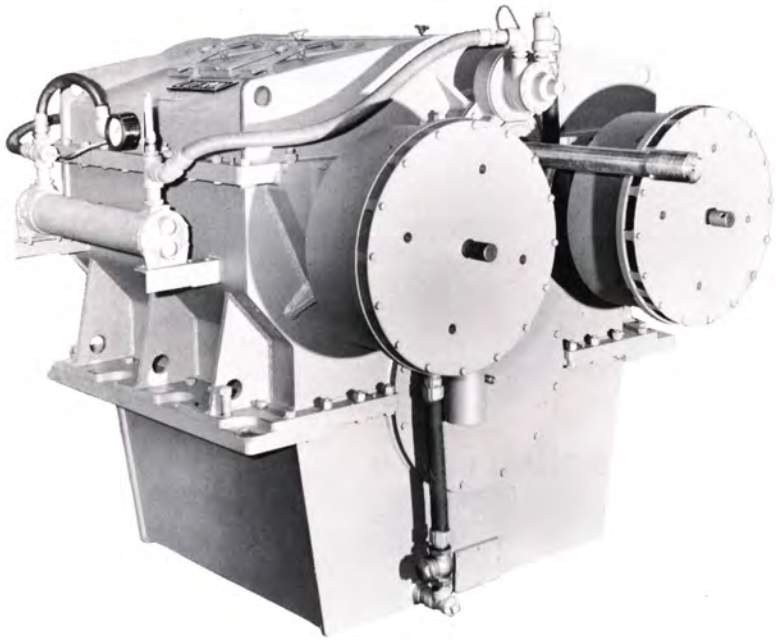
SERIES	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T*	X	WEIGHT
1414 IN.	14	16	16	50	15	1½	34½	38½	29½	73	24½	20	16	27½	11	15	8	18¾	4,500 LBS.
M.M.	356	406	406	1270	381	38	876	978	749	1854	622	508	406	699	279	381	203	476	2,041 KGS.
1616 IN.	16	18	18	55	17	1½	36½	40½	31½	77	26½	22	17	29½	12	15	8	20	6,600 LBS.
M.M.	406	457	457	1397	432	38	927	1029	800	1956	673	559	432	749	305	381	203	508	2,994 KGS.
1818 IN.	18	19½	19½	61	18½	1½	38	42½	32¾	80½	28½	24½	18½	31½	12½	15	8	22	8,500 LBS.
M.M.	457	495	495	1549	470	38	965	1080	832	2045	724	622	470	800	318	381	203	559	3,856 KGS.
2120 IN.	21	22	22	68	21	1½	41	44½	35¼	85½	30½	27	20	33½	14	15	8	29	11,200 LBS.
M.M.	533	559	559	1727	533	38	1041	1130	895	2172	775	686	508	851	356	381	203	737	5,080 KGS.
2520 IN.	25	25½	25½	77	24½	1½	41	45½	35¼	86½	30½	30½	21½	33½	15½	15	8	29	18,000 LBS.
M.M.	635	648	648	1956	622	38	1041	1156	895	2197	775	775	546	851	394	381	203	737	8,165 KGS.
2524 IN.	25	25½	25½	77	24½	1½	42	47¾	37½	89¾	35	30½	21½	38	15½	15	8	31	20,000 LBS.
M.M.	635	648	648	1956	622	38	1067	1213	953	2280	889	775	546	965	394	381	203	787	9,072 KGS.
2724 IN.	27	28	28	86	27½	1½	42	47¾	37½	89¾	35	34½	24½	38	17½	15	8	31	23,000 LBS.
M.M.	686	711	711	2184	699	38	1067	1213	953	2280	889	876	622	965	445	381	203	787	10,433 KGS.
3024 IN.	30	31	29	92	30	2	38	59	36½	97	36½	37	25	42½	18	15	8	31	26,500 LBS.
M.M.	762	787	737	2337	762	51	965	1499	927	2464	927	940	635	1080	457	381	203	787	12,020 KGS.
3620 IN.	36	36	36	108	35½	2	41	48¾	36½	89¾	33	43½	28½	40	20½	15	10	31	30,500 LBS.
3622 M.M.	914	914	914	2743	902	51	1041	1238	927	2280	838	1105	724	1016	521	381	254	787	13,835 KGS.
3626 IN.	36	36	36	108	35½	2	45	51	40	96	38	43½	28½	45	20½	15	10	34¾	38,000 LBS.
M.M.	914	914	914	2743	902	51	1143	1295	1016	2438	965	1105	724	1143	521	381	254	883	17,237 KGS.
4222 IN.	42	42	42	122	40½	2½	43	50	38	93	34	49½	30½	41	21½	15	10	34¾	38,000 LBS.
M.M.	1067	1067	1067	3098	1029	64	1092	1270	965	2362	864	1257	775	1041	546	381	254	883	17,237 KGS.
4226 IN.	42	42	42	122	40½	2½	47	52	42	99	38	49½	30½	45	21½	15	10	41	40,000 LBS.
M.M.	1067	1067	1067	3098	1029	64	1194	1321	1067	2515	965	1257	775	1143	546	381	254	1041	18,144 KGS.
4827 IN.	48	48	46	135	55	3	48	55	43	103	39½	46	32	46½	23	15	10	41	55,000 LBS.
M.M.	1219	1219	1168	3429	1397	76	1219	1397	1092	2616	1003	1168	813	1181	584	381	254	1041	24,948 KGS.
5430 IN.	54	52	52	150	51	3½	52	61	47	113	43	61	35	50	25	15	10	41	78,000 LBS.
M.M.	1372	1321	1321	3810	1295	89	1321	1549	1194	2870	1092	1549	889	1270	635	381	254	1041	35,381 KGS.
6036 IN.	60	58	58	163	56	3½	55	65	49½	120	49	66	37	58	27	15	10	49	80,000 LBS.
M.M.	1524	1473	1473	4140	1422	89	1397	1651	1257	3048	1245	1676	940	1473	686	381	254	1245	36,288 KGS.
6636 IN.	66	65	63	177	61½	4	55	66	54	121	49	71½	39½	58	29½	15	10	56¾	95,000 LBS.
M.M.	1676	1651	1600	4496	1562	102	1397	1676	1373	3073	1245	1816	1003	1473	749	381	254	1441	43,092 KGS.

*Clutch Drum Removal Clearance

Dimensions shown are average values but may vary depending on ratio, horsepower, and customer requirements.

Note: Above dimensions are not to be used for installation.
USE CERTIFIED INSTALLATION PRINT.

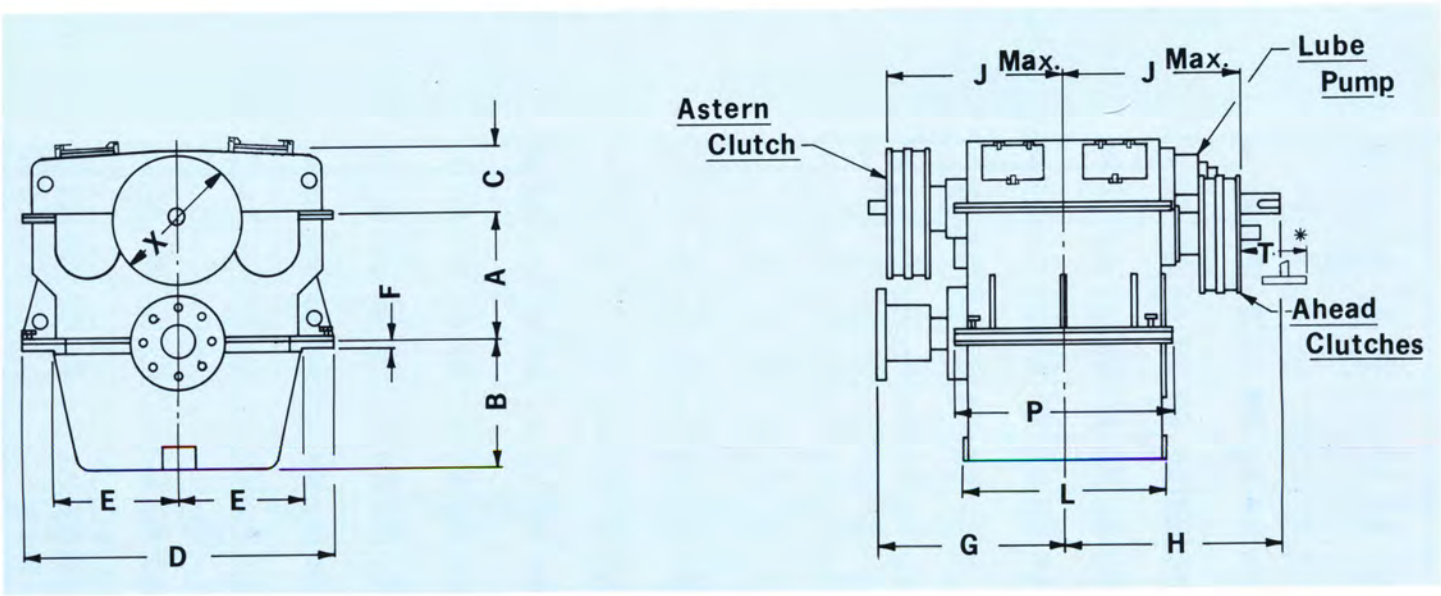
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'RS2S' SERIES

VERTICAL OFFSET TWO SPEED FORWARD REVERSE AND REDUCTION GEARING

BASIC DIMENSIONAL DATA



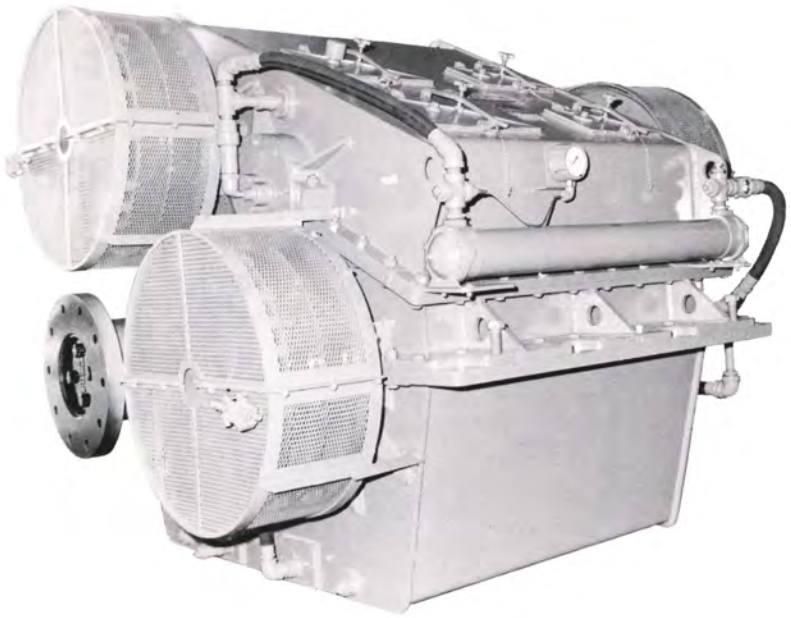
SERIES	A	B	C	D	E	F	G	H	J	L	P	T*	X	WEIGHT
2524 IN.	25	26	18	74	23	2	56¼	TO BE DETERMINED BY MARINE ARCHITECT	48	54½	58½	8 13/16	34½	28,000 LBS.
M.M.	635	660	457	1880	584	51	1429		1219	1384	1486	224	876	12,700 KGS.
3024 IN.	30	30	20	80	32	2	56½		48½	54½	57½	8 13/16	34½	35,000 LBS.
M.M.	762	762	508	2032	813	51	1435		1245	1384	1461	224	876	15,876 KGS.
3622 IN.	36	38	24	92	36	2½	55½		53	60½	67½	8 13/16	38½	48,000 LBS.
M.M.	914	965	610	2337	914	64	1410		1346	1537	1715	224	978	21,773 KGS.
3626 IN.	36	38	24	92	36	2½	57½		54½	61	67	8 13/16	44¼	48,500 LBS.
M.M.	914	965	610	2337	914	64	1461		1384	1549	1702	224	1194	22,000 KGS.
4222 IN.	42	43	25	100	41	2½	53½		54½	58½	63½	8 13/16	44¼	53,000 LBS.
M.M.	1067	1092	635	2540	1041	64	1359		1384	1486	1613	224	1194	24,041 KGS.
4226 IN.	42	43	25	100	41	2½	55½		58⅞	62½	67½	10 13/16	49⅞	60,000 LBS.
M.M.	1067	1092	635	2540	1041	64	1410		1495	1588	1715	275	1267	27,216 KGS.

*Clutch Drum Removal Clearance

Dimensions shown are average values but may vary depending on ratio, horsepower, and customer requirements.

Note: Above dimensions are not to be used for installation.
USE CERTIFIED INSTALLATION PRINT.

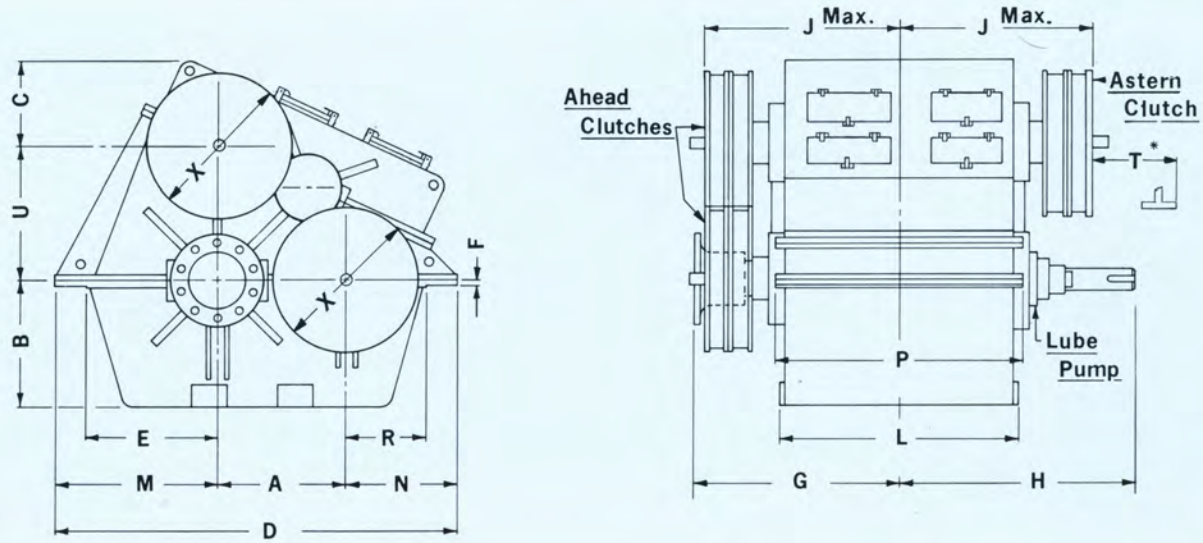
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'RHS2S' SERIES

HORIZONTAL OFFSET TWO SPEED FORWARD REVERSE AND REDUCTION GEARING

BASIC DIMENSIONAL DATA



SERIES	A	B	C	D	E	F	G	H	J	L	M	N	P	R	T	U	X	WEIGHT
2524 IN.	25	26	19½	84	29	2	56¼	TO BE DETERMINED BY MARINE ARCHITECT	49½	57½	36	23	61½	16	8 13/16	24 13/16	34½	28,000 LBS.
M.M.	635	660	495	2134	737	51	1429		1257	1461	914	584	1562	406	224	630	876	12,701 KGS.
3024 IN.	30	32	20¾	96	30	2	54 9/16		49 3/16	55¼	38	28	58½	20	8 13/16	31	34½	35,000 LBS.
M.M.	762	813	527	2438	762	51	1386		1249	1403	965	711	1486	508	224	787	876	15,876 KGS.
3622 IN.	36	36	25	113	35½	2	55½		53	60½	45½	31½	67	21½	8 13/16	37 11/16	38½	48,000 LBS.
M.M.	914	914	635	2870	902	51	1410		1346	1537	1156	800	1702	546	224	957	978	21,773 KGS.
3626 IN.	36	36	25	113	35½	2	57½		55	64½	45½	31½	71	21½	8 13/16	37 11/16	44¼	48,500 LBS.
M.M.	914	914	635	2870	902	51	1461		1397	1638	1156	800	1803	546	224	957	1194	22,000 KGS.
4222 IN.	42	43	29	122	37½	2½	53½		54 11/16	58½	47½	32½	63½	22½	8 13/16	42	44¼	53,500 LBS.
M.M.	1067	1092	737	3099	953	64	1359		1389	1486	1207	826	1613	572	224	1067	1194	24,268 KGS.
4226 IN.	42	43	29	122	37½	2½	55½		56 11/16	62½	47½	32½	63½	22½	10 13/16	42	49⅞	54,500 LBS.
M.M.	1067	1092	737	3099	953	64	1410		1439	1588	1207	826	1613	572	275	1067	1267	24,721 KGS.

*Clutch Drum Removal Clearance

Dimensions shown are average values but may vary depending on ratio, horsepower, and customer requirements.

Note: Above dimensions are not to be used for installation.
USE CERTIFIED INSTALLATION PRINT.

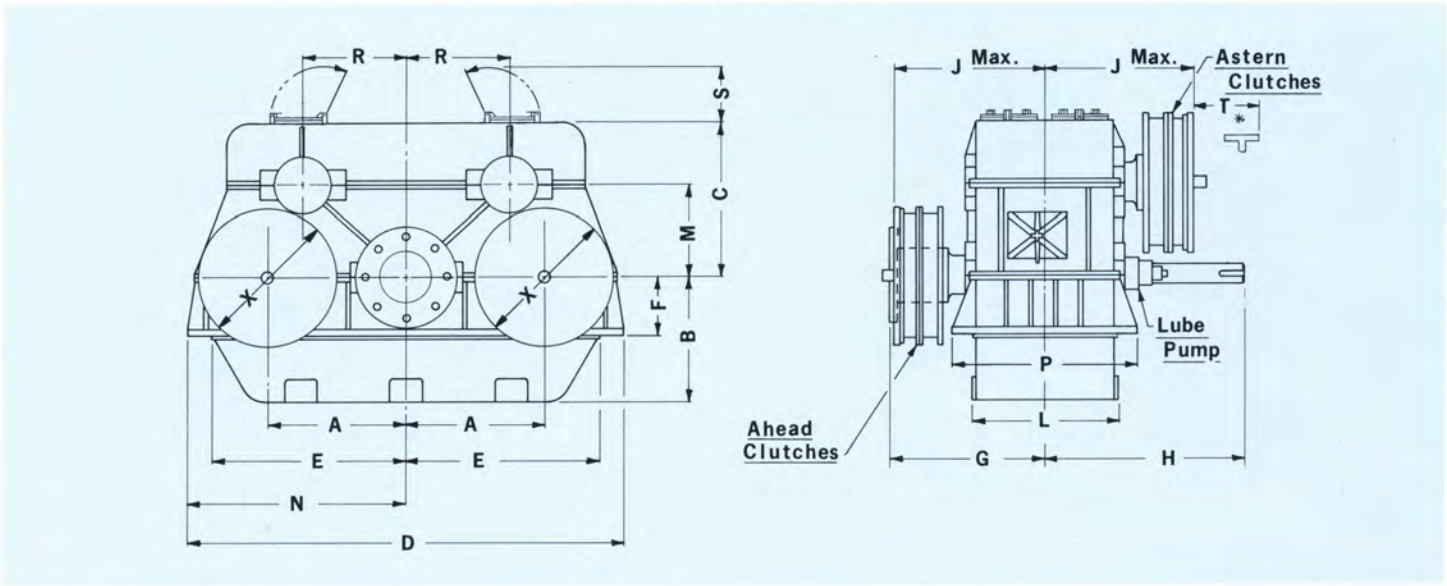
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'RCS' SERIES

REVERSE AND REDUCTION COMPOUND GEARING

BASIC DIMENSIONAL DATA
MULTIPLE INPUT DRIVES



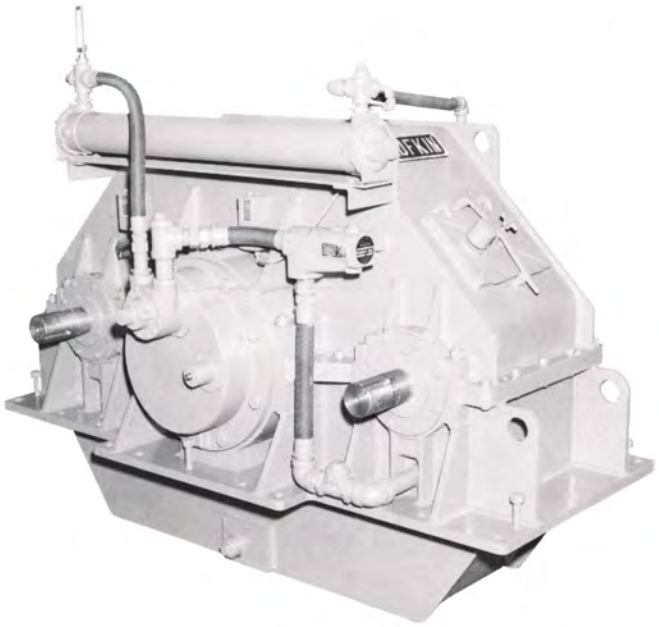
SERIES	A	B	C	D	E	F	G	H	J	L	M	N	P	R	S	T*	X	WEIGHT
6607 IN.	33	32	43½	112	51	14	33½	TO BE DETERMINED BY THE MARINE ARCHITECT	41½	35	25⅜	56	38	21⅛	18	8 11/16	21¼	32,000 LBS.
M.M.	838	813	1105	2845	1295	356	851		1054	889	645	2438	965	537	457	221	540	14,515 KGS.
7309 IN.	36½	36	44	123	55½	16	35½		38¼	36	25⅞	61½	53	25¾	18	8 11/16	24	40,000 LBS.
M.M.	927	914	1118	3124	1410	406	902		972	914	657	1562	1346	654	457	221	610	18,144 KGS.
7314D IN.	36½	24	29 3/16	110	48	1½	47		40 11/16	39½	16 11/16	55	44	12¾	18	8 11/16	21¼	22,000 LBS.
M.M.	927	610	741	2794	1219	38	1193		1033	1003	424	1397	1118	324	457	221	540	9,979 KGS.
8414 IN.	42	42	41¾	132	59	20	46½		44¾	46½	24¾	66	60	34	15	8 13/16	34½	55,000 LBS.
M.M.	1067	1067	1060	3353	1499	508	1181		1137	1181	629	1676	1524	864	381	224	876	24,948 KGS.
9610 IN.	48	45	44¾	151	66½	26¼	42		47	48¼	26¾	75½	65½	39 13/16	15	8 13/16	38½	63,000 LBS.
M.M.	1219	1143	1137	3835	1689	667	1067		1192	1226	679	1918	1664	1011	381	224	978	28,577 KGS.
9614 IN.	48	45	44¾	151	66½	26¼	44		49¼	52¼	26¾	75½	69½	39 13/16	15	8 13/16	44¼	67,000 LBS.
M.M.	1219	1143	1137	3835	1689	667	1118		1251	1327	679	1918	1765	1011	381	224	1124	30,391 KGS.

*Clutch Drum Removal Clearance

Dimensions shown are average values but may vary depending on ratio, horsepower, and customer requirements.

Note: Above dimensions are not to be used for installation.
USE CERTIFIED INSTALLATION PRINT.

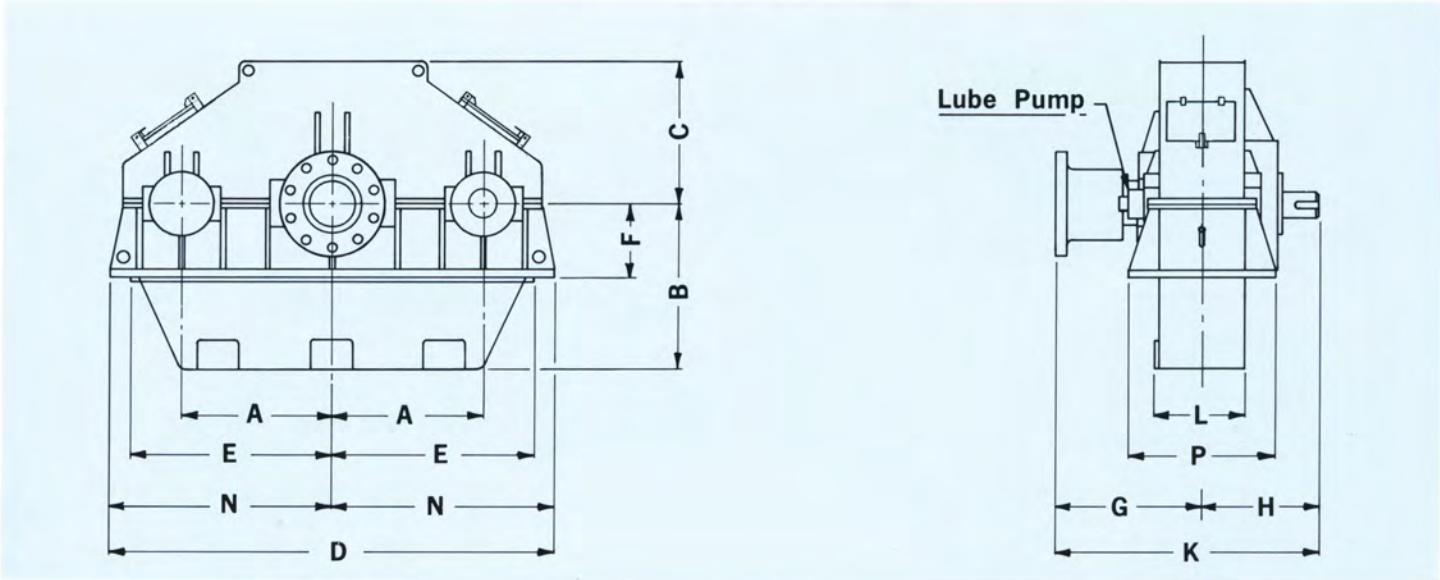
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'C' SERIES

REDUCTION COMPOUND GEARING

BASIC DIMENSIONAL DATA
MULTIPLE INPUT DRIVES

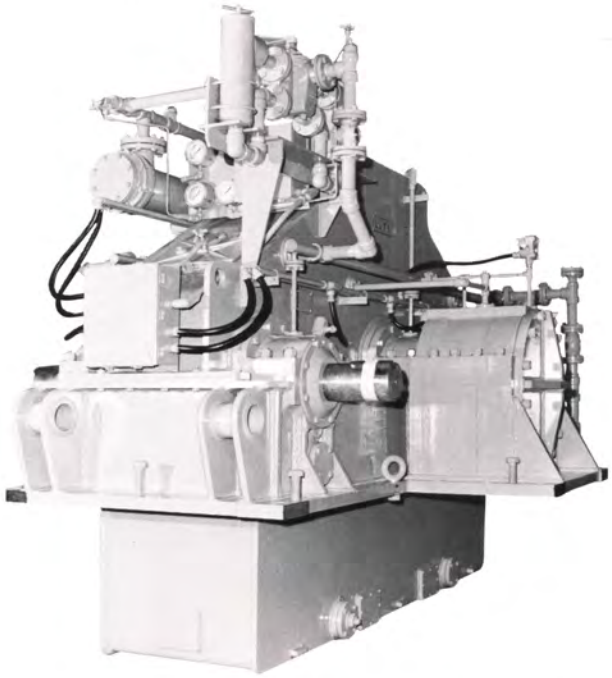


SERIES	A	B	C	D	E	F	G	H	K	L	N	P	WEIGHT
6607 IN.	33	35	32	108	49	17½	29	22	51	17½	54	33½	36,000 LBS.
M.M.	838	889	813	2743	1245	445	737	559	1295	445	1372	851	16,330 KGS.
7309 IN.	36½	39	36	120	54	17½	34	27	61	19½	60	35½	40,000 LBS.
M.M.	927	991	914	3048	1372	445	864	686	1549	495	1524	902	18,144 KGS.
8414 IN.	42	42	42	136	61	18	36½	31½	68	24½	68	42	46,000 LBS.
M.M.	1067	1067	1067	3454	1549	457	927	800	1727	622	1727	1067	20,865 KGS.
9610 IN.	48	48	46	140	63	20	35¼	32¼	67½	24	70	40	49,000 LBS.
M.M.	1219	1219	1168	3556	1600	508	895	819	1715	610	1778	1016	22,226 KGS.
9614 IN.	48	48	46	140	63	20	37¼	34¼	71½	28	70	44	51,000 LBS.
M.M.	1219	1219	1168	3556	1600	508	946	870	1816	711	1778	1118	23,134 KGS.

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USE CERTIFIED INSTALLATION PRINT.

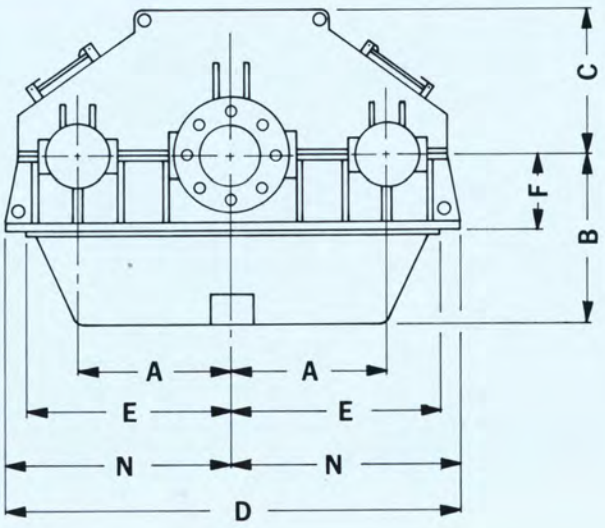
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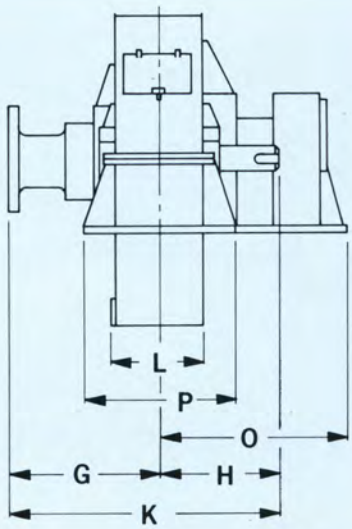


'C-K' SERIES

REDUCTION COMPOUND GEARING WITH BABBITT BEARINGS

BASIC DIMENSIONAL DATA
MULTIPLE INPUT DRIVES



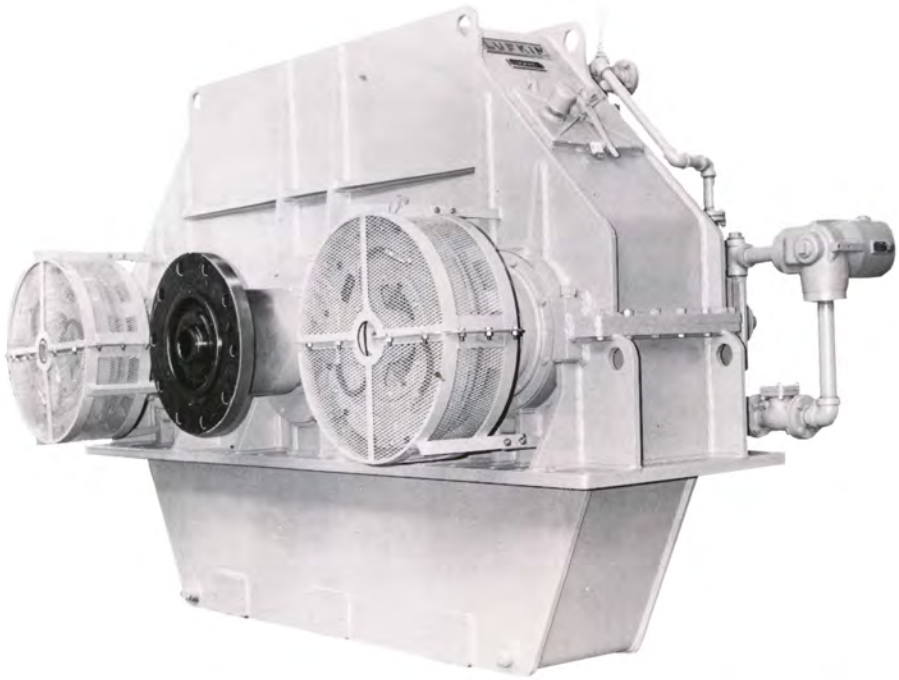


SERIES	A	B	C	D	E	F	G	H	K	L	N	O	P	WEIGHT
10830 IN.	54	58	54	172	77	31	69	47	116	53	86	70¾	76½	105,000 LBS.
M.M.	1372	1473	1372	4369	1956	787	1753	1194	2946	1346	2184	1797	1943	47,628 KGS.
12030 IN.	60	60	58	176	44¼	32	69	47	116	53	88	70¾	76½	110,000 LBS.
M.M.	1524	1524	1473	4470	1124	813	1753	1194	2946	1346	2235	1797	1943	49,896 KGS.
13230 IN.	66	64	62	190	49½	34	69	47	116	53	95	70¾	76½	122,000 LBS.
M.M.	1676	1626	1575	4826	1257	864	1753	1194	2946	1346	2413	1797	1943	55,339 KGS.
15030 IN.	75	72	70	212	58	35	69	47	116	53	106	70¾	76½	139,000 LBS.
M.M.	1905	1829	1778	5385	1473	889	1753	1194	2946	1346	2692	1797	1943	63,050 KGS.
16222 IN.	81	81	74	218	66	35	51	56	107	44½	66	72	74	150,000 LBS.
M.M.	2057	2057	1880	5537	1676	889	1295	1422	2718	1130	1676	1829	1880	68,040 KGS.
16232 IN.	81	81	76	226	67	36	55	56	111	50	113	82½	82	180,000 LBS.
M.M.	2057	2057	1930	5740	1702	914	1397	1422	2819	1270	2870	2096	2083	81,648 KGS.

Dimensions shown are average values but may vary depending on ratio, horsepower, and customer requirements.

Note: Above dimensions are not to be used for installation.
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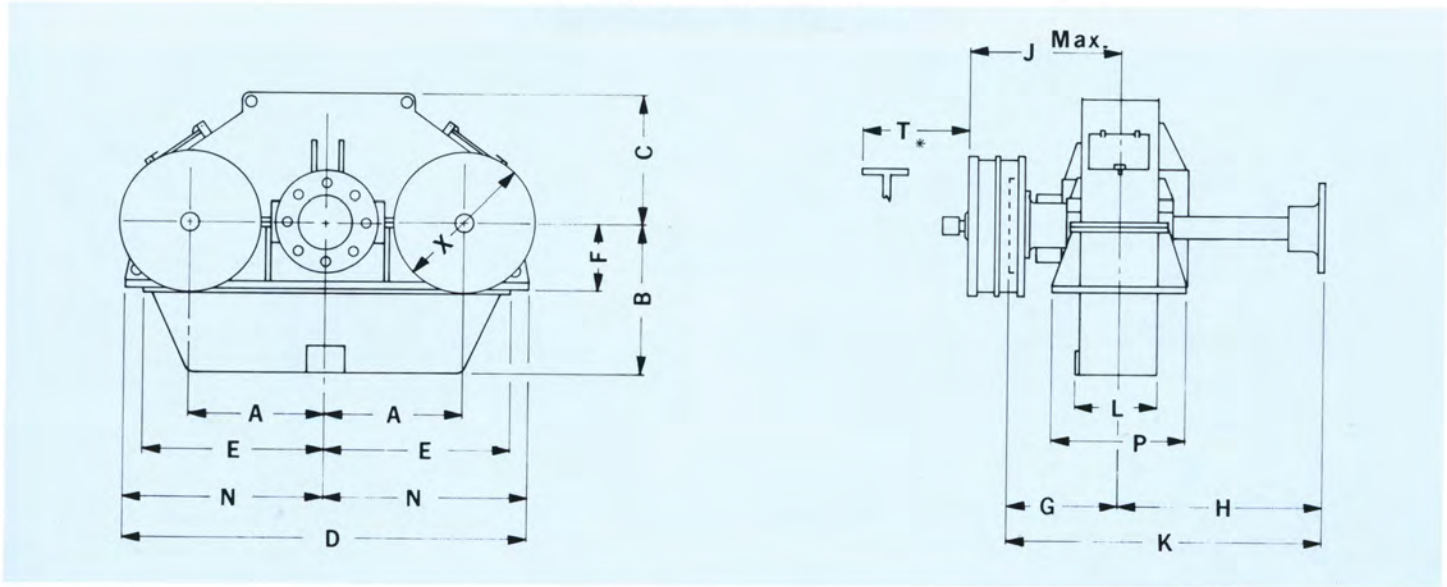
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'CSQ' SERIES

REDUCTION COMPOUND GEARING WITH DISCONNECT CLUTCH

BASIC DIMENSIONAL DATA
MULTIPLE INPUT DRIVES



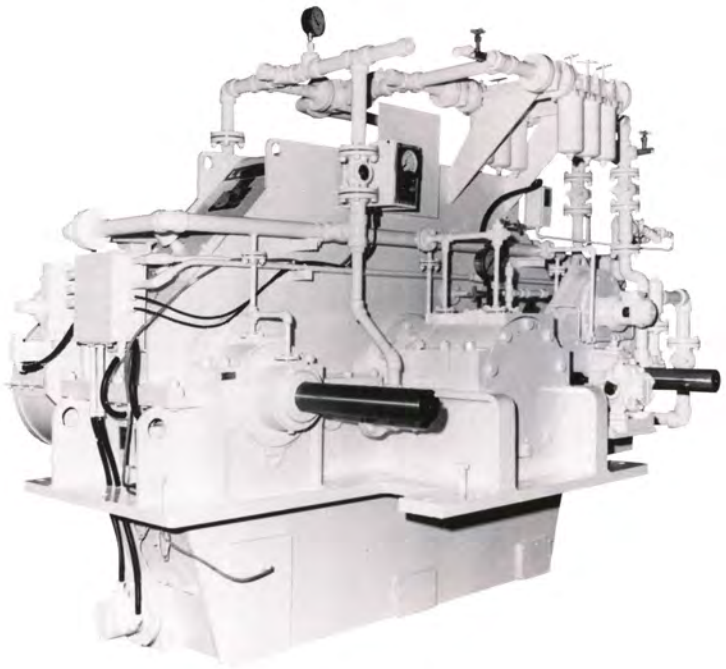
SERIES	A	B	C	D	E	F	G	H	J	K	L	N	P	T*	X	WEIGHT
6607 IN.	33	35	32	108	49	17½	29	49¼	32¾	78¼	17½	54	33½	8 11/16	21¼	37,800 LBS.
M.M.	838	889	813	2743	1245	445	737	1251	832	1988	445	1372	851	221	540	17,146 KGS.
7309 IN.	36½	39	36	120	54	17½	34	50¼	34	84¼	19½	60	35½	8 11/16	24	42,000 LBS.
M.M.	927	991	914	3048	1372	445	864	1276	864	2140	495	1524	902	221	610	19,051 KGS.
8414 IN.	42	42	42	136	61	18	36½	52¾	36¾	89¼	24½	68	42	8 13/16	34½	48,300 LBS.
M.M.	1067	1067	1067	3454	1549	457	927	1340	933	2267	622	1727	1067	224	876	21,909 KGS.
9610 IN.	48	48	46	140	63	20	35	56½	36¼	91½	24	70	40	8 13/16	38½	51,450 LBS.
M.M.	1219	1219	1168	3556	1600	508	889	1435	921	2324	610	1778	1016	224	978	23,338 KGS.
9614 IN.	48	48	46	140	63	20	37¼	58½	38¼	95¾	28	70	44	8 13/16	44¼	53,550 LBS.
M.M.	1219	1219	1168	3556	1600	508	946	1486	972	2432	711	1778	1118	224	1124	24,290 KGS.

*Clutch Drum Removal Clearance

Dimensions shown are average values but may vary depending on ratio, horsepower, and customer requirements.

Note: Above dimensions are not to be used for installation.
USE CERTIFIED INSTALLATION PRINT.

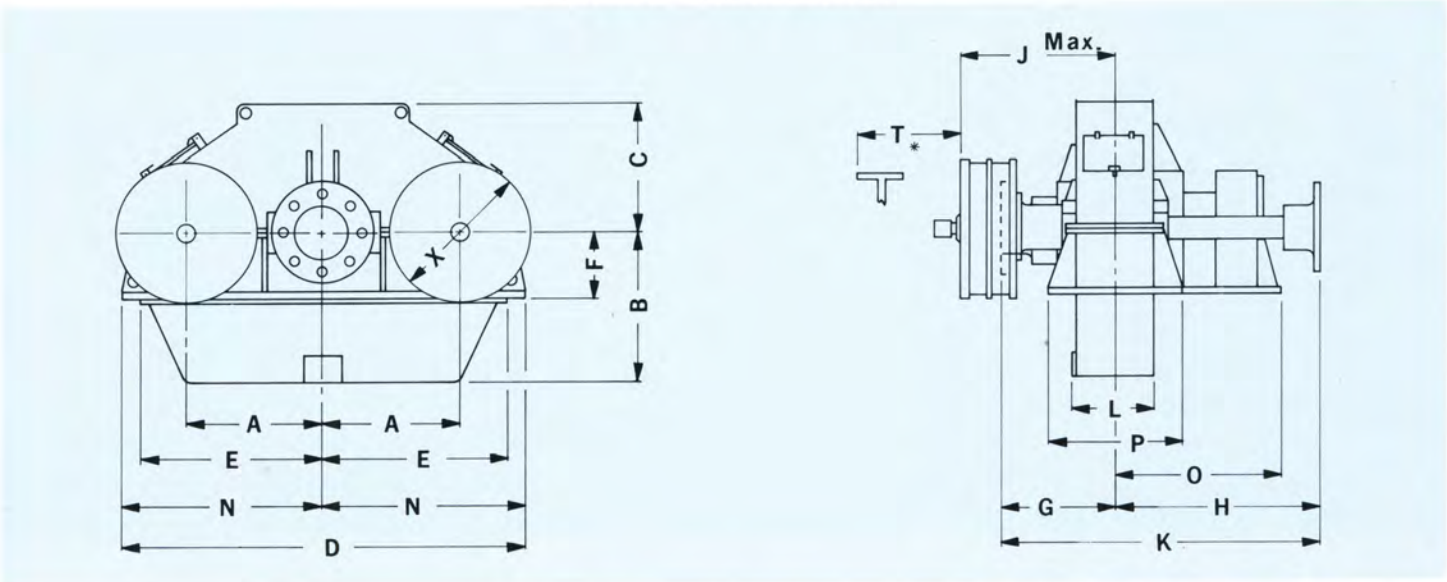
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'CSQ-K' SERIES

REDUCTION COMPOUND GEARING WITH DISCONNECT CLUTCH AND BABBITT BEARINGS

BASIC DIMENSIONAL DATA
MULTIPLE INPUT DRIVES



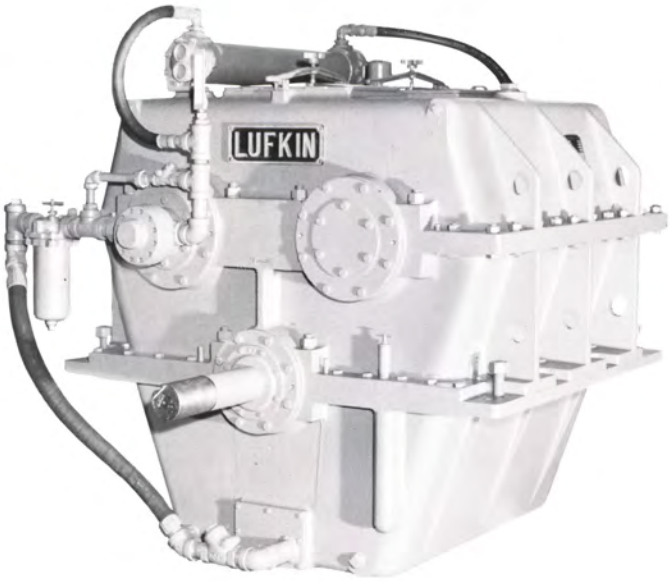
SERIES	A	B	C	D	E	F	G	H	J	K	L	N	O	P	T*	X	WEIGHT
10830 IN.	54	58	54	172	77	31	69	67	65¾	136	53	86	70¾	76½	13¾	49⅞	110,250 LBS.
M.M.	1372	1473	1372	4369	1956	787	1753	1702	1670	3454	1346	2184	1797	1943	349	1260	50,009 KGS.
12030 IN.	60	60	58	176	44¼	32	69	67	65¾	136	53	88	70¾	76½	13¾	49⅞	115,500 LBS.
M.M.	1524	1524	1473	4470	1124	787	1753	1702	1670	3454	1346	2235	1797	1943	349	1260	52,391 KGS.
13230 IN.	66	64	62	190	49½	34	69	67	65¾	136	53	95	70¾	76½	13¾	54⅛	128,100 LBS.
M.M.	1676	1626	1575	4826	1257	864	1753	1702	1670	3454	1346	2413	1797	1943	349	1375	58,106 KGS.
15030 IN.	75	72	70	212	58	35	69	67	66¾	137	53	106	70¾	76½	18	67½	145,950 LBS.
M.M.	1905	1829	1778	5385	1473	889	1753	1702	1695	3480	1346	2692	1797	1943	457	1715	66,203 KGS.
16222 IN.	81	81	74	218	66	35	51	82	57⅜	149⅝	44½	66	72	74	14	54¼	157,500 LBS.
M.M.	2057	2057	1880	5537	1676	889	1295	2083	1457	3800	1130	1676	1829	1880	356	1378	71,442 KGS.
16232 IN.	81	81	76	226	67	36	55	98⅝	63¼	149⅝	50	113	82½	82	18	67½	189,000 LBS.
M.M.	2057	2057	1930	5740	1702	914	1397	2505	1607	3800	1270	2870	2096	2083	457	1715	85,730 KGS.

*Clutch Drum Removal Clearance

Dimensions shown are average values but may vary depending on ratio, horsepower, and customer requirements.

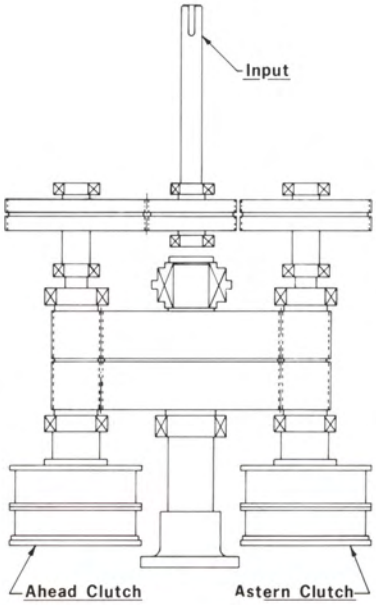
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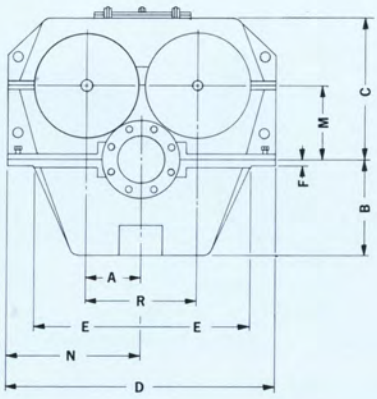


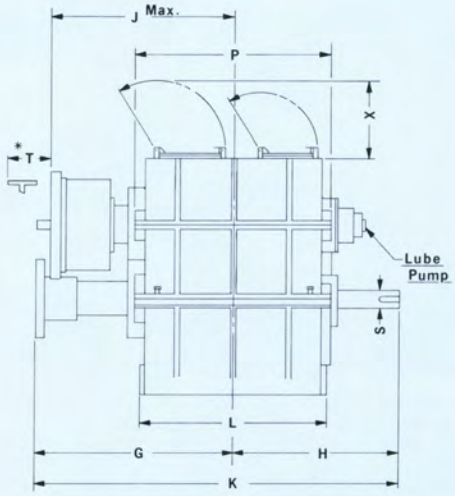
'RLS' SERIES

INLINE REVERSE AND REDUCTION GEARING



BASIC DIMENSIONAL DATA



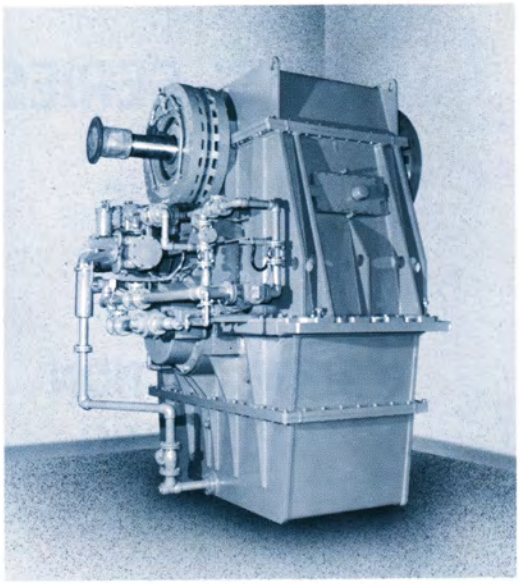


SERIES	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	X	WEIGHT
3641 IN.	11	19	32	62	26	1½	52	39	43⅛	91	45	14¼	31	47½	22	4	16½	18	13,700 LBS.
M.M.	279	483	814	1575	660	38	1321	991	1095	2311	1143	362	787	1207	559	102	419	457	6,214 KGS.
4218 IN.	12½	22	35⅛	62	25	1½	48	55	43 15/16	103	46⅛	16⅞	31	49¼	25	4	18	18	15,300 LBS.
M.M.	318	559	892	1575	635	38	1219	1397	1116	2616	1172	429	787	1251	635	102	457	457	6,941 KGS.

Dimensions shown are average values but may vary depending on ratio, horsepower, and customer requirements.

Note: Above dimensions are not to be used for installation.
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LUFKIN Model VSQ6636 is a Straight Reduction Gear having both a disconnect clutch for engine disconnect and a gear mounted shaft brake. The gear is designed for 7000 BHP at 98 RPM wheel speed.

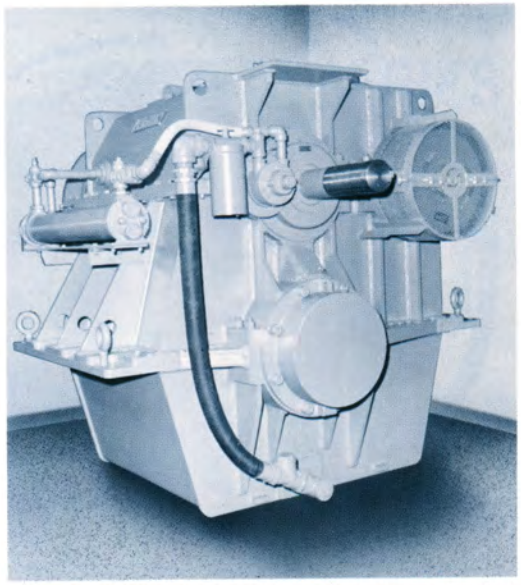
MEMBER OF AGMA

LUFKIN®

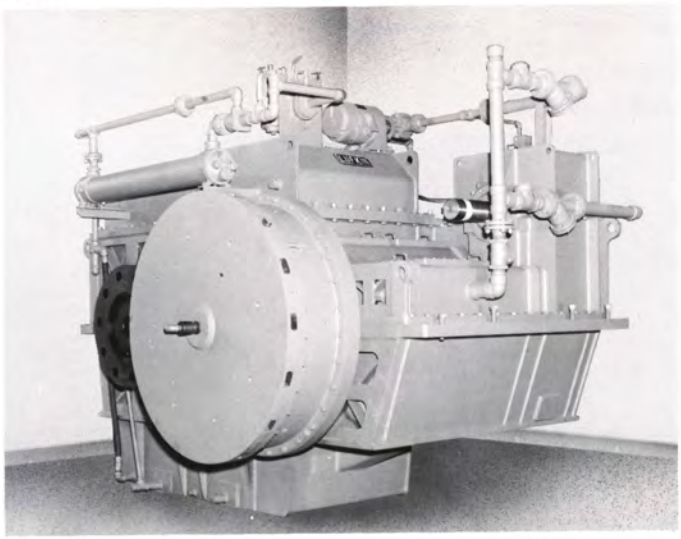
INDUSTRIES, INC.

LUFKIN, TEXAS 75901

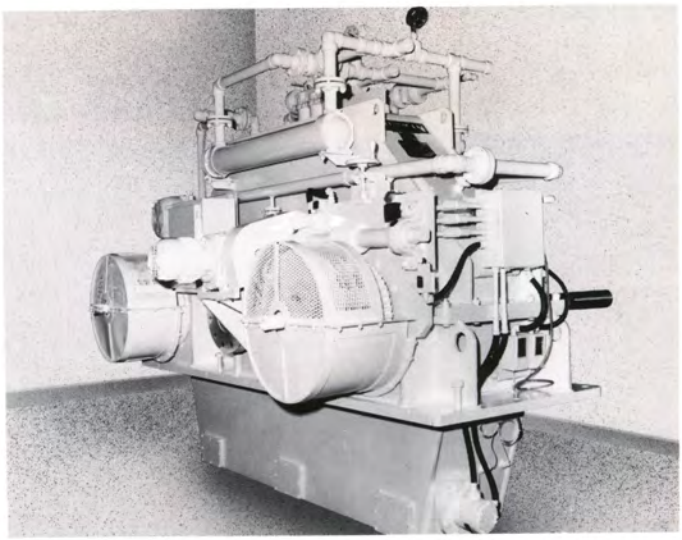
CUSTOM DESIGN GEARING



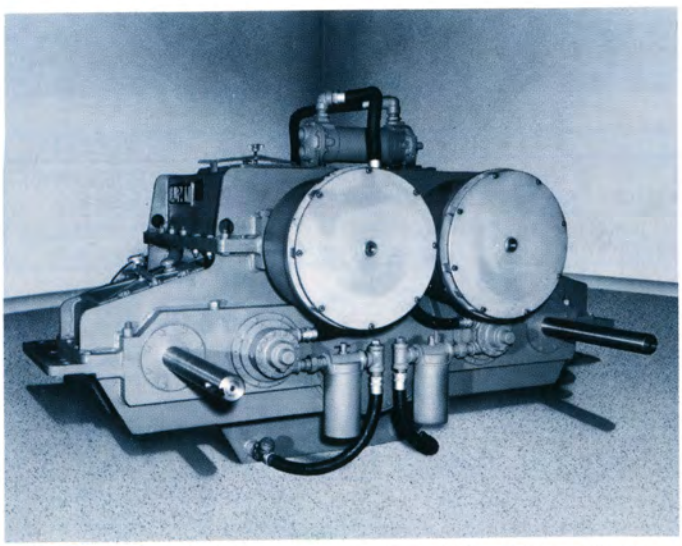
LUFKIN Model VSQ3024S Straight Reduction Gear with engine disconnect clutch and gear driven PTO with disconnect clutch.



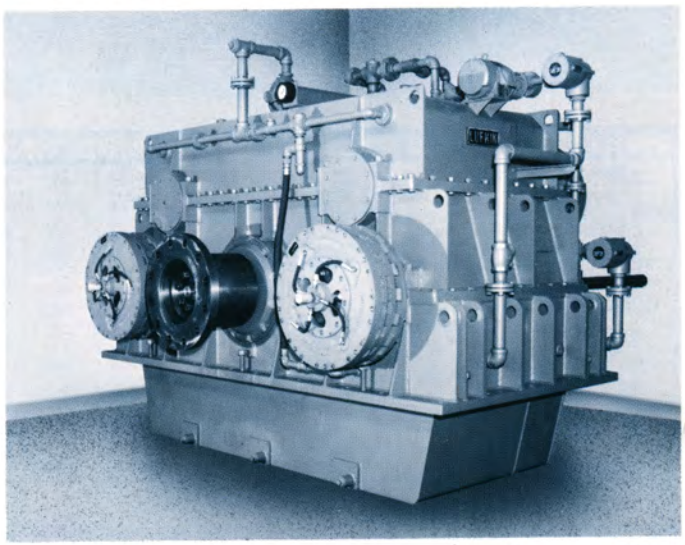
LUFKIN Model HS5636S Marine Gear with 3000 KW generator PTO, quill mounted disconnect propulsion clutch and slow speed shaft drilled for C.P. mechanism.



LUFKIN Model CSQ7809 Compound Gear equipped with sleeve bearings and Kingsbury thrust bearing. Gear designed for 1700 HP at 209 RPM wheel speed.

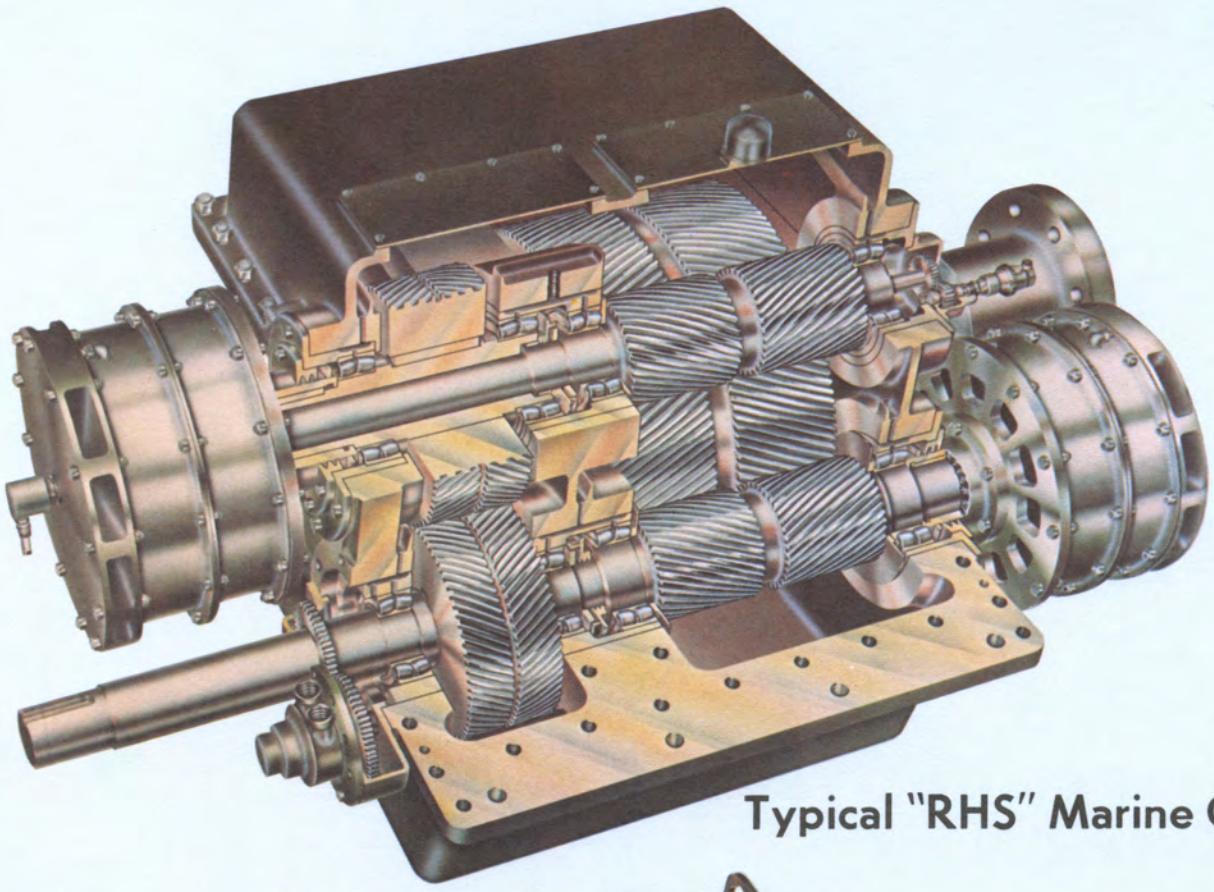


LUFKIN Model RCS7314 Double Reduction Reversing Compound 1640 HP and 242 RPM, 5.1:1 ratio.

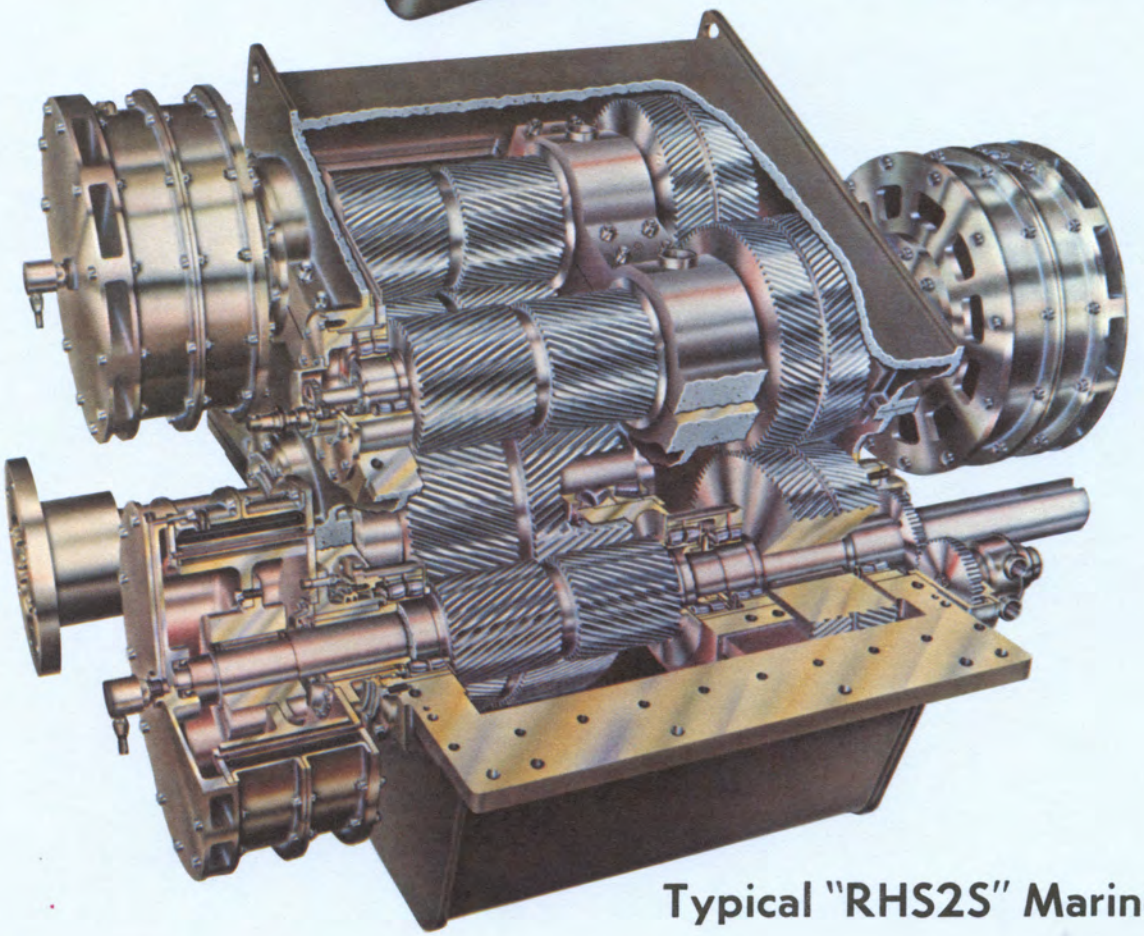


LUFKIN Model RCSQ10024 Reverse Reduction Compound, 5600 HP, 8.180:1 ratio.

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Typical "RHS" Marine Gear



Typical "RHS2S" Marine Gear

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