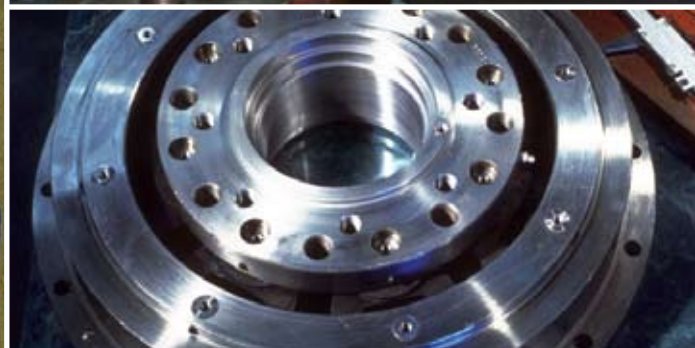
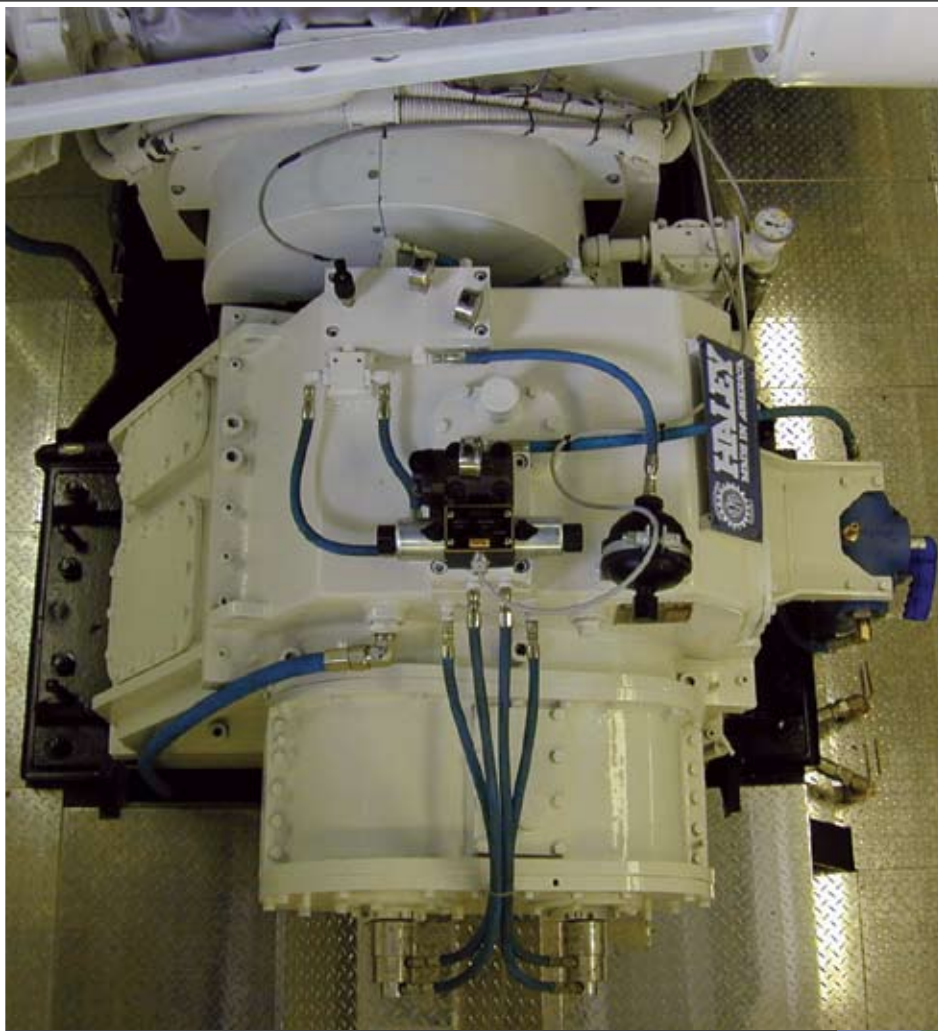
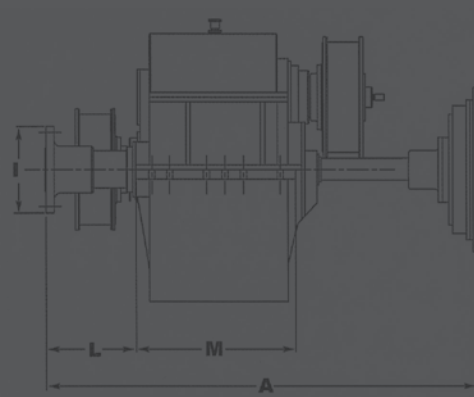
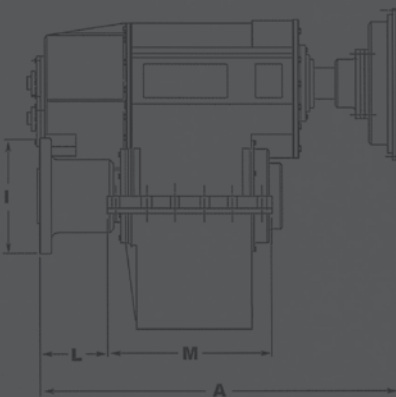
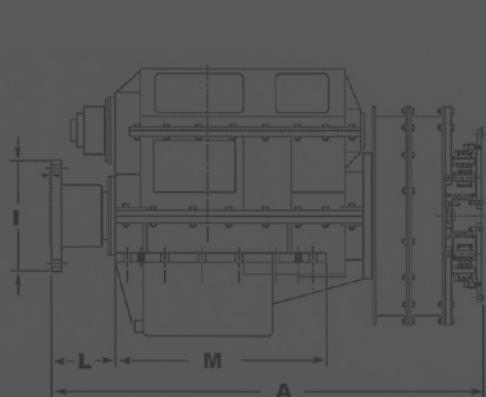
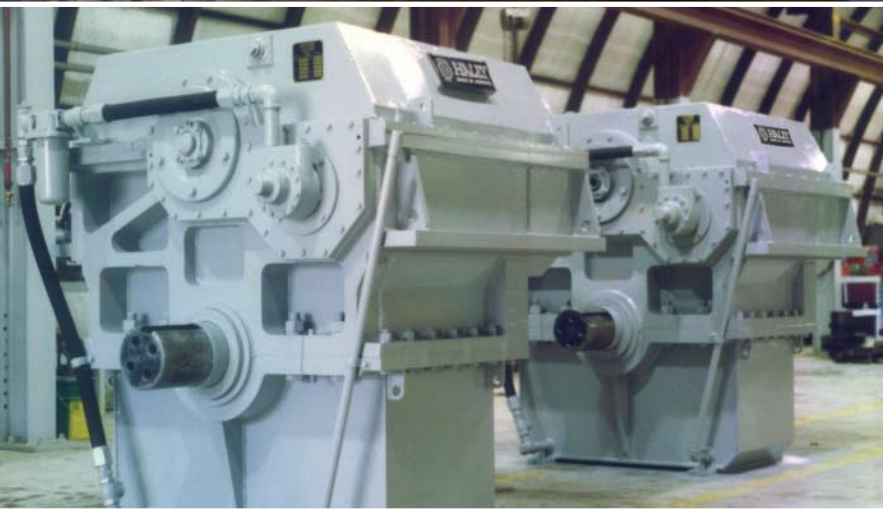


# HALEY™



MANUFACTURERS OF MARINE GEARS, CLUTCHES, TORSIONAL COUPLINGS AND BRAKE SYSTEMS





# HALEY™

[www.haleyinc.com](http://www.haleyinc.com)

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# The Haley Group

.....  
Haley Marine Gears • Haley Clutch & Coupling Company  
Haley Marine Gears International

## The Haley Group: 3 companies, 2 locations, 1 name

Since 1973 Haley Marine Gears, Inc. has serviced its customers, starting with a single manufacturing location in Greenville, Mississippi. In the 35 years to follow, Haley Marine Gears, Inc. expanded significantly, joining sister companies Haley Clutch & Coupling Company, Inc. and Haley Marine Gears International, Inc. to form "The Haley Group," a unique and versatile manufacturer of marine propulsion equipment and industrial gearing. Through quality products and sustained growth, The Haley Group has become a dominant worldwide supplier of the **complete package**, including gears, torsional couplings, clutches, and shaft brakes.



### The fastest service and most reliable parts available

Our products meet or exceed all industry standards and are built with an emphasis on quality, durability, and dependability. Our state-of-the-art Engineering Department is a leader in the design of marine propulsion equipment from the engine crankshaft to the tail shaft and specializes in reverse-engineering and custom designing. Whether you need a customized design for air pneumatic or hydraulic gears in vertical or horizontal offsets, coaxial inline gear units, or standard units for repowering, changing ratios, or new construction, our Engineering Department can provide the solutions and answers you require.

Prompt and thorough service is always a priority at The Haley Group, so we provide an experienced team of service technicians who are on call 24-hours a day and will travel throughout the world to provide the assistance you need.

The Haley Group is a member of American Gear Manufacturers Association (AGMA) and can provide ABS or any other required certifications upon request.



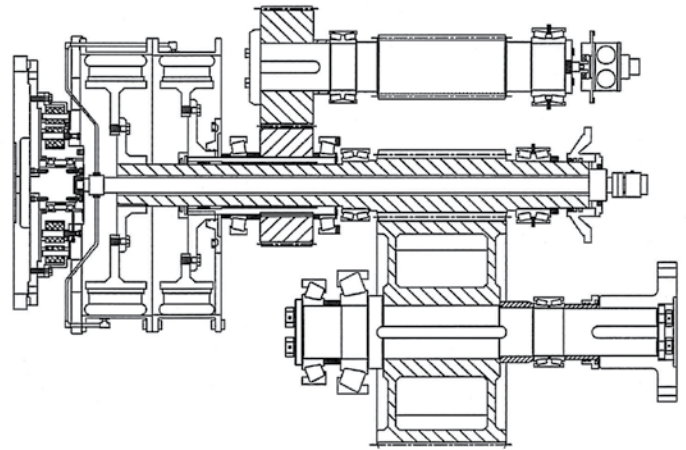
# FMCV : Flywheel Mounted Clutch Vertical Gears

# FMCH : Flywheel Mounted Clutch Horizontal Gears



## FMCV Series

Flywheel mounted clutch, reversing gear units with vertical shaft offsets. Standard horsepower ranges are from 1200 hp to 5000 hp and standard ratios are from 1.5:1 to 6.0:1.



## FMCH Series

Flywheel mounted clutch, reversing gear units with horizontal shaft offsets. Standard horsepower ranges are from 1200 hp to 5000 hp and standard ratios are from 1.5:1 to 6.0:1.

### Gear Elements

This series of gears can use two types of gear elements. (1) The reliable conservative, and economical through hardened 4340 steel, precision hobbed gear elements of (2) the carburized hardened and precision ground elements with an increase of up to 50% rating in the same gear case.

### Clutches

The FMC gears use TR (Torsionall Resilient) flywheel mounted clutches that add rotating mass and excellent dampening to mass elastic systems. For higher horsepower applications, larger clutches may be required with torque tube or stub shaft pedestal arrangement

### Bearings

All bearings are current production of tapered roller or spherical roller bearings manufactured in the U.S. by leading manufacturers.

### Gear Cases

Gear cases are fabricated in our Greenville facility by experienced and skilled fabrication engineers. New standard cases as well as special cases can be completed in a few weeks.

### Lube Systems

Oil pressure flow from precision gear pumps, with dual fine mesh cleanable filter. Suitable coolers of any type are available.

### Controls

The latest versions of clutch and system controls are available in both electric and pneumatic activation for standard slip or dynamic positioning systems.

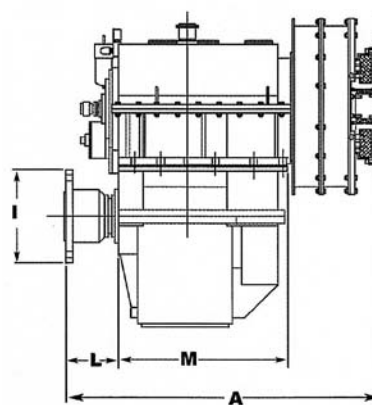
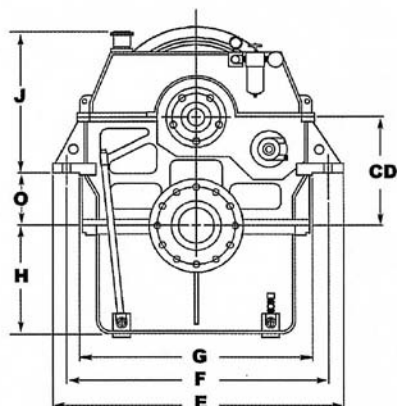
### Engineering Assistance

CAD engine and gear installation drawings, lube, and cooling system drawings. Torsional analysis or mass elastic data available. Start up and service engineers available at all times.

Special center distance available upon request. Consult engineering department for installation drawings and/or for selection of torque tube assembly or stub shaft pedestal bearing arrangement for larger clutches. (See pages 14-15.)

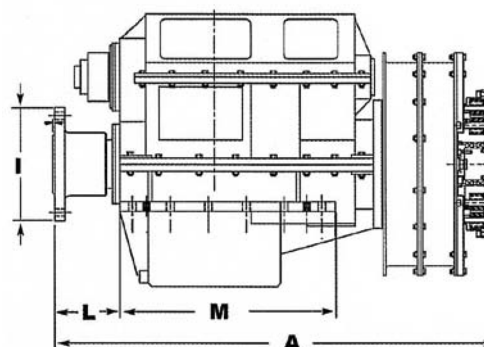
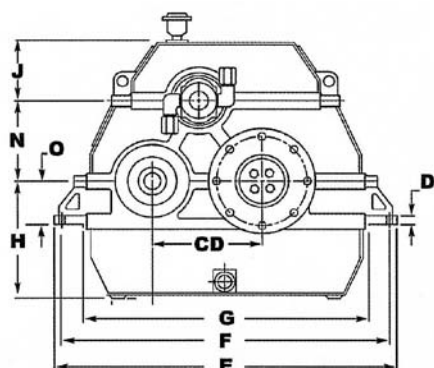


## FMCV



Model	HP	RPM	Ratio	A	CD	D	E	F	G	H	I	J	L	M	O
FMCV-1930	1500/ 1950	800/ 1000	2.5/ 4.25:1	83.00	19.00	1.75	54.00	50.00	43.50	20.00	17.50	14.00	21.31	39.81	na
				2100	480	45	1370	1270	1105	510	445	355	540	1010	na
FMCV-2135	1800/ 2100	800/ 1000	2.5/ 4.25:1	89.75	20.88	2.00	67.00	63.00	56.50	24.50	19.00	18.50	22.00	49.00	na
				2280	530	50	1700	1600	1435	620	480	470	559	1245	na
FMCV-2435	2000/ 2400	800/ 1000	2.5/ 4.25:1	89.75	24.00	2.00	67.00	63.00	52.00	24.50	20.81	18.50	24.00	49.00	na
				2280	610	50	1700	1600	1320	620	530	470	610	1245	na
FMCV-2535	2000/ 2400	800/ 1000	2.5/ 5.0:1	89.87	25.00	2.00	67.00	63.00	55.00	27.00	23.50	30.50	24.00	49.00	12.50
				2285	635	50	1700	1600	1400	685	595	775	610	1245	320
FMCV-2835	2250/ 2800	800/ 1000	3.0/ 5.5:1	89.87	27.56	2.00	67.00	63.00	55.00	27.00	23.50	30.50	24.00	49.00	15.50
				2285	700	50	1700	1400	1400	685	595	775	610	1245	395
FMCV-3235	2500/ 3600	800/ 1000	3.0/ 6.0:1	92.00	31.50	2.50	72.00	68.00	56.25	28.12	24.50	36.00	26.00	52.50	16.00
				2335	813	64	1829	1727	1429	714	622	914	660	1334	406
FMCV-4035	3500/ 5000	800/ 1000	3.0/ 6.5:1	102.00	40.25	3.00	76.75	68.00	58.00	29.25	26.25	42.00	28.00	56.25	16.00
				2591	1022	76	1949	1727	1473	743	667	1067	711	1429	406

## FMCH



Model	HP	RPM	Ratio	A	CD	D	E	F	G	H	I	J	L	M	N	O
FMCH-2135	1800/ 2100	800/ 1000	2.5/ 4.25:1	89.87	20.875	2.00	66.50	63.12	54.38	26.25	20.37	13.00	13.25	44.00	17.18	9.25
				2285	530	50	1690	1605	1380	665	520	330	335	1120	435	235
FMCH-2435	2000/ 2400	800/ 1000	2.5/ 4.25:1	89.87	24.00	2.00	69.50	65.40	57.00	26.75	21.50	13.00	13.25	44.00	na	9.75
				2285	610	50	1765	1660	1450	680	545	330	335	1120	na	250
FMCH-2635	2000/ 2400	800/ 1000	2.5/ 4.25:1	89.87	26.00	2.00	87.50	78.50	65.00	27.50	21.50	15.00	15.00	44.00	na	9.75
				2285	660	50	2200	1995	1650	700	545	380	380	1120	na	250
FMCH-2835	2250/ 2800	800/ 1000	2.5/ 5.0:1	89.87	27.56	2.50	80.00	76.00	67.00	27.50	23.50	15.00	16.00	44.00	na	9.75
				2285	700	65	2030	1930	1700	700	595	380	406	1120	na	250
FMCH-3235	2500/ 3600	800/ 1000	3.0/ 6.0:1	92.00	31.50	2.50	87.50	83.00	74.87	35.50	23.50	16.00	17.12	45.00	na	11.00
				2335	800	65	990	2110	1900	900	595	405	435	1145	na	280
FMCH-4035	3500/ 5000	800/ 1000	3.0/ 6.0:1	102.00	40.00	3.00	91.25	85.00	79.00	42.50	28.00	16.00	18.25	48.00	na	12.00
				2591	1016	76	2318	2159	2007	1080	711	406	464	1219	na	305

**GMCV**

- Gear Mounted Clutch
- Vertical Reduction Gears

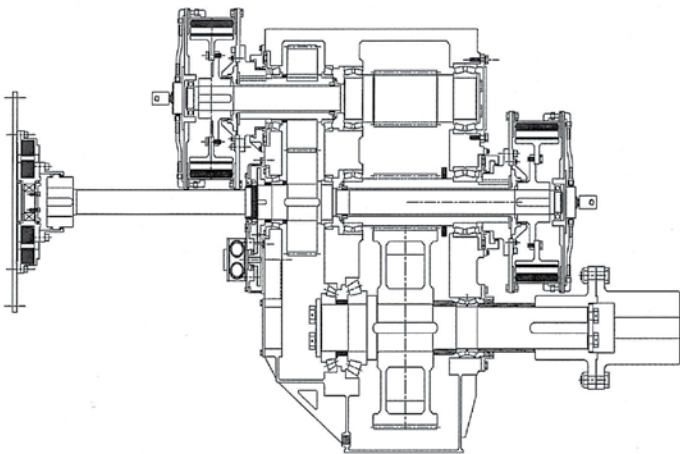
**GMCH**

- Gear Mounted Clutch
- Horizontal Reduction Gears



### GMCV Series

Gear mounted clutch, reversing gear units with vertical shaft offsets. Standard horsepower ranges are from 2000 hp to 5000 hp and standard ratios are from 3.0:1 to 6.5:1.



### GMCH Series

Gear mounted clutch, reversing gear units with horizontal shaft offsets. Standard horsepower ranges are from 2000 hp to 5000 hp and standard ratios are from 3.0:1 to 6.5:1.

#### Gear Elements

This series of gears can use two types of gear elements. (1) The reliable, conservative, and economical through hardened 4340 steel, precision hobbed gear elements or (2) the carburized hardened and precision ground elements with an increase of up to 50% rating in the same gear case.

#### Clutches

The GMC gears use TB (torque bar) type of clutches. The TB clutches have very high torque capacity with relatively small diameter and excellent ease of maintenance.

#### Bearings

All bearings are current production of tapered roller or spherical roller bearings manufactured in the U.S. By leading manufacturers.

#### Gear Cases

Gear cases are fabricated in our Greenville facility by experienced and skilled fabrication engineers. New standard cases as well as special cases can be completed in a few weeks.

#### Lube Systems

Oil pressure flow from precision gear pumps, with dual fine mesh cleanable filter. Suitable coolers of any type are available.

#### Controls

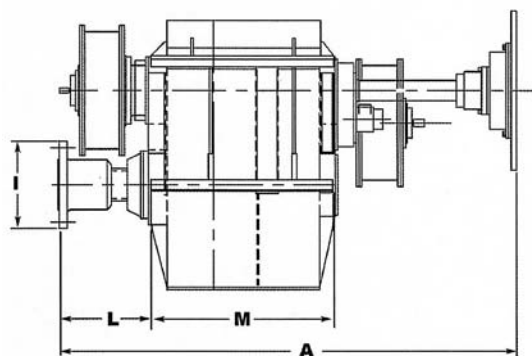
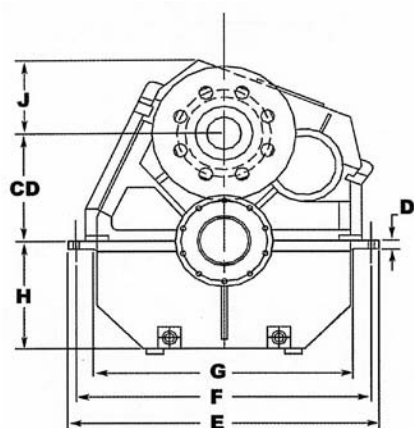
The latest versions of clutch and system controls are available in both electric and pneumatic activation for standard slip or dynamic positioning systems.

#### Engineering Assistance

CAD engine and gear installation drawings, lube, and cooling system drawings. Torsional analysis or mass elastic data available. Start up and service engineers available at all times.

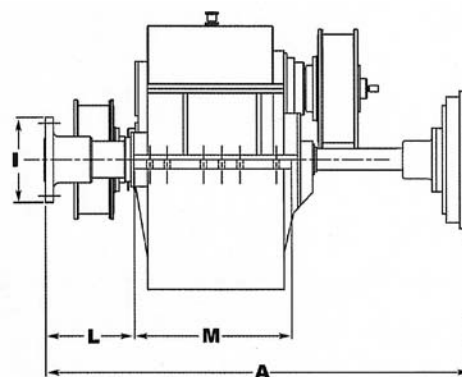
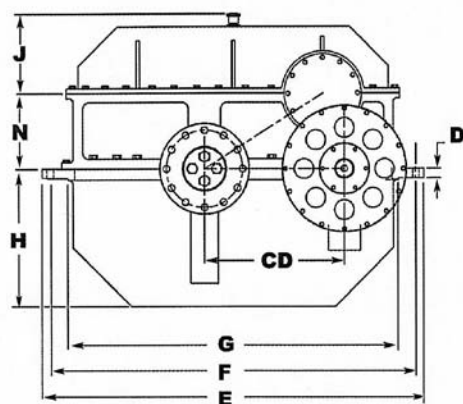
Special center distance available upon request. Consult engineering department for installation drawings and/or for selection of torsional vibration damping coupling and clutches





## GMCV

Model	HP	RPM	Ratio	A	CD	D	E	F	G	H	I	J	L	M
GMCV-2424	1500/ 2500	750/ 1200	3.0/ 4.5:1	122.75	24.00	2.00	66.00	62.00	52.00	24.00	21.00	22.25	22.50	54.00
				3150	610	50	1675	1575	1320	610	535	565	570	1370
GMCV-3028	2150/ 3100	750/ 1200	3.0/ 5.0:1	130.00	30.00	2.50	78.00	73.00	60.00	30.50	26.00	22.25	26.00	54.00
				3302	760	65	1980	1855	1525	775	660	565	660	1370
GMCV-3228	2500/ 3600	750/ 1200	3.0/ 5.5:1	143.38	31.50	2.50	80.00	74.00	63.00	32.00	26.00	24.00	32.00	58.00
				3642	800	65	2032	1880	1600	812	660	610	813	1473
GMCV-3628	2850/ 4200	750/ 1200	3.0/ 6.0:1	145.00	36.00	2.50	88.00	82.00	76.00	36.00	28.00	26.00	34.00	68.00
				2860	915	65	2235	2080	1930	915	711	660	864	1730
GMCV-4232	3500/ 5000	750/ 1200	3.0/ 6.5:1	150.00	42.00	2.25	106.00	102.00	82.00	46.00	30.00	26.00	36.00	70.00
				3810	1067	57	2692	2591	2083	1168	762	660	914	1181



## GMCH

Model	HP	RPM	Ratio	A	CD	D	E	F	G	H	I	J	L	M	N
GMCH-2424	1500/ 2500	750/ 1200	3.0/ 4.5:1	122.25	24.00	2.00	74.00	68.00	76.00	26.00	23.50	18.00	21.50	40.00	18.75
				2850	610	51	1880	1727	1930	660	697	457	552	1015	476
GMCH-3028	2150/ 3100	750/ 1200	3.0/ 5.0:1	112.25	30.00	2.50	94.00	88.00	79.00	30.75	24.00	18.00	14.75	40.00	22.00
				2850	760	65	2390	2235	2005	780	610	457	375	1015	560
GMCH-3228	2500/ 3600	750/ 1200	3.0/ 5.5:1	128.00	32.00	2.50	102.00	98.00	84.00	32.50	26.75	20.00	22.75	42.00	24.00
				3251	813	65	2591	2489	2134	826	680	508	578	1067	610
GMCH-3628	2850/ 4200	750/ 1200	3.0/ 6.0:1	132.00	36.00	2.50	104.00	103.00	92.00	38.75	42.50	22.00	23.00	45.00	28.00
				3353	914	65	2642	2616	2337	984	1080	559	585	1143	711
GMCH-4232	3500/ 5000	750/ 1200	3.0/ 6.5:1	135.00	42.00	3.00	115.00	109.00	102.00	41.00	78.00	24.00	23.00	52.00	32.00
				3440	1067	75	2920	2770	2590	1040	1980	610	585	1320	813

# HRV

Hydraulic Reversing  
Vertical Gears

# HRH

Hydraulic Reversing  
Horizontal Gears

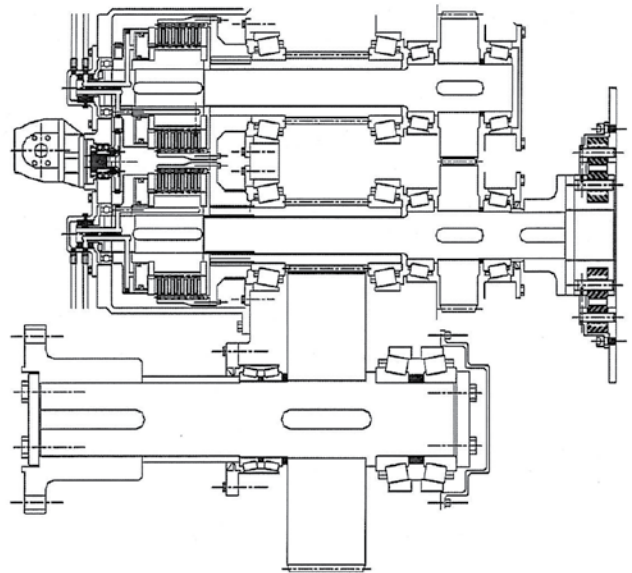


## HRV Series

Single stage, reversing gear units with vertical offsets. Standard horsepower ranges are from 800 hp to 5000 hp and standard ratios are from 3.0:1 to 7:1.

## HRH Series

Single stage, reversing gear units with horizontal offsets. Standard horsepower ranges are from 800 hp to 5000 hp and standard ratios are from 3.0:1 to 7:1.



### Gear Elements

All HRV/HRH series gear elements are fully inspected carburized, hardened and precision ground. These high quality gears are excellent for high speed diesel engines and large reduction ratios. The high accuracy of the gears results in very low noise.

### Clutches

These heavy duty hydraulic clutches are specifically designed for Haley marine propulsion gears. These externally mounted clutches allow up to 100% larger clutch area than our nearest competitor's gear, while allowing better cooling with easy accessibility for repair or removal.

### Bearings

All bearings are current production of tapered roller or spherical roller bearings manufactured in the U.S. by leading manufacturers.

### Gear Cases

Gear cases are fabricated in our Greenville facility by experienced and skilled fabrication engineers. New standard cases as well as special cases can be completed in a few weeks.

### Lube Systems

Oil pressure flow from precision gear pumps, with dual fine mesh cleanable filter. Suitable coolers of any type are available.

### Controls

The latest versions of clutch and system controls are available in both electric and pneumatic activation for standard slip or dynamic positioning systems.

### Engineering Assistance

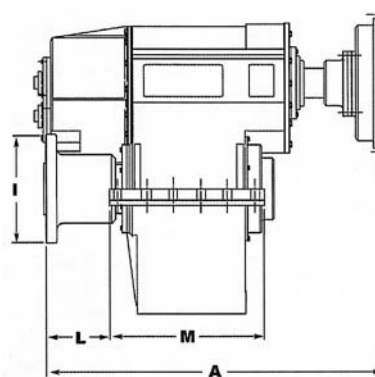
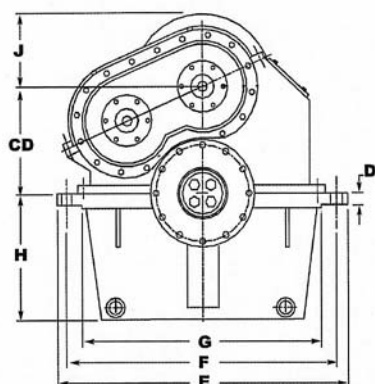
CAD engine and gear installation drawings, lube, and cooling system drawings. Torsional analysis or mass elastic data available. Start up and service engineers available at all times.

Special center distance available upon request. Consult engineering department for installation drawings and/or for selection of torsional vibration damping couplings and shaft brake systems.



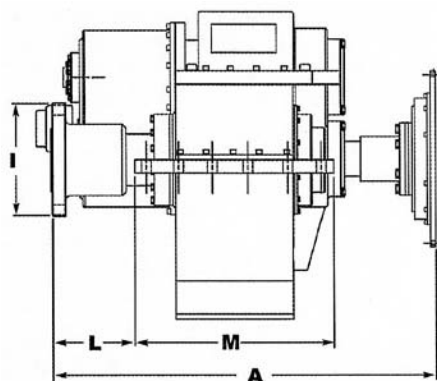
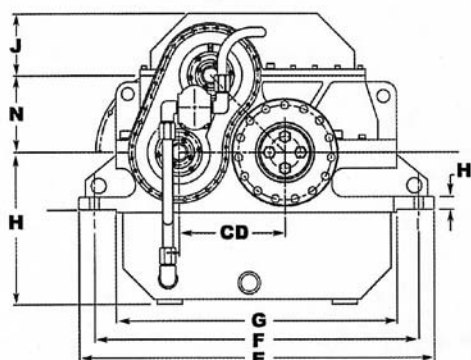


## HRV



Model	HP	RPM	Ratio	A	CD	D	E	F	G	H	I	J	L	M
HRV-1711	1200/ 1600	1200/ 1600	3.0/ 5.1:1	59.15	16.562	2.00	46.00	43.50	34.50	16.18	17.00	13.25	21.30	26.00
				1502	421	50	1168	1105	876	411	432	337	541	660
HRV-2116	1800/ 2500	900/ 1800	3.0/ 5.5:1	89.87	20.87	2.00	64.00	63.00	46.50	24.00	19.00	14.50	22.00	28.00
				2283	530	50	126	1600	1181	610	483	368	559	711
HRV-2411	2000/ 2800	900/ 1800	3.0/ 7.0:1	89.87	24.40	2.00	66.00	63.00	48.00	26.91	19.00	15.00	22.00	28.00
				2283	620	50	1676	1600	1219	684	483	381	559	711
HRV-2816	2400/ 3100	900/ 1800	3.0/ 7.0:1	89.87	27.56	2.00	66.00	63.00	48.00	26.91	18.00	15.00	24.00	32.00
				2283	700	50	1676	1600	1219	684	457	381	610	813
HRV-3216	2800/ 3600	900/ 1800	3.0/ 7.0:1	92.00	31.50	2.50	80.00	74.00	62.00	30.00	24.00	16.00	27.00	36.00
				2337	800	63	2030	1880	1575	762	610	406	685	915
HRV-3616	3200/ 4200	900/ 1800	3.0/ 6.5:1	102.00	36.00	2.50	88.50	76.75	64.50	30.50	26.00	18.75	27.00	40.00
				2591	914	63	2248	1949	1638	775	660	476	685	1016
HRV-4016	3600/ 5000	900/ 1800	3.0/ 6.0:1	107.00	40.00	3.00	92.25	78.00	66.25	32.75	28.50	20.00	28.25	44.00
				2718	1016	76	2343	1981	1683	332	724	508	718	1118

## HRH



Model	HP	RPM	Ratio	A	CD	D	E	F	G	H	I	J	L	M	N	O
HRH-1711	1200/ 1600	1200/ 1600	3.0/ 5.1:1	82.00	16.560	1.50	48.00	45.75	42.50	24.25	16.75	14.50	15.50	40.75	13.75	9.75
				2083	420	38	1219	1162	1080	616	425	368	394	1035	349	248
HRH-2116	1800/ 2500	900/ 1800	3.0/ 5.0:1	89.87	20.875	2.50	58.00	62.87	54.25	26.25	17.50	15.12	17.50	42.25	15.5	9.75
				2283	530	63	1473	1597	1378	665	444	385	444	1073	394	248
HRH-2411	2000/ 2800	900/ 1800	3.0/ 5.5:1	89.87	24.504	2.50	62.00	65.75	56.75	28.50	19.25	15.12	17.50	42.75	16.75	9.75
				2283	622	63	1575	1670	1441	724	489	385	445	1086	425	248
HRH-2816	2400/ 3100	900/ 1800	3.0/ 5.5:1	89.87	26.87	2.50	75.00	69.00	60.00	32.75	22.50	15.25	18.50	44.25	18.38	9.75
				2283	682	63	1905	1753	1524	832	571	387	470	1124	467	248
HRH-3216	2800/ 3600	900/ 1800	3.0/ 5.75:1	92.00	31.50	2.50	87.50	81.50	75.00	35.00	25.00	15.75	19.00	45.00	19.00	11.00
				2337	800	63	2222	2070	1905	889	635	400	483	1397	483	279
HRH-3616	3200/ 4200	900/ 1800	3.0/ 6.25:1	102.00	36.00	3.00	110.00	101.00	90.00	37.00	28.00	17.75	19.00	55.00	22.00	15.00
				2591	914	76	2794	2565	2286	940	711	451	483	1397	559	381
HRH-4016	3600/ 5000	900/ 1800	3.0/ 6.5:1	107.00	40.00	3.00	112.00	107.00	90.00	39.00	30.00	19.50	20.00	56.00	23.00	16.00
				2718	1016	76	2845	2718	2286	990	762	495	508	1422	584	406

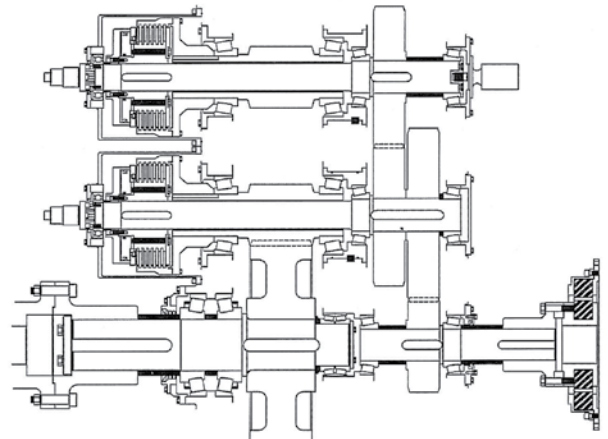
# DRV : Vertical Double Reduction Reversing Gears

# DRI : Inline Double Reduction Reversing Gears



## DRV Series

Double reduction, reversing, vertical offset gear arrangements. Double reduction gears allow for high speed engines and large reductions. Standard horsepower ranges are from 800 hp to 5000 hp and standard ratios are from 3.0:1 to 8.2:1.



## DRI Series

Double reduction, reversing, coaxial gear arrangements. Double reduction gears allow for high speed engines and large reductions. Standard horsepower ranges are from 800 hp to 5000 hp and standard ratios are from 3.0:1 to 8.2:1.

### Gear Elements

All DRI/DRV series gear elements are fully inspected carburized, hardened and precision ground. These high quality gears are excellent for high speed diesel engines and large reduction ratios. The high accuracy of the gears results in very low noise.

### Clutches

These heavy duty hydraulic clutches are specifically designed for haley marine propulsion gears. These externally mounted clutches allow up to 100% larger clutch area than our nearest competitor's gear, while allowing better cooling with easy accessibility for repair or removal.

### Bearings

All bearings are current production of tapered roller or spherical roller bearings manufactured in the U.S. By leading manufacturers.

### Gear Cases

Gear cases are fabricated in our Greenville facility by experienced and skilled fabrication engineers. New standard cases as well as special cases can be completed in a few weeks.

### Lube Systems

Oil pressure flow from precision gear pumps, with dual fine mesh cleanable filter. Suitable coolers of any type are available.

### Controls

The latest versions of clutch and system controls are available in both electric and pneumatic activation for standard slip or dynamic positioning systems.

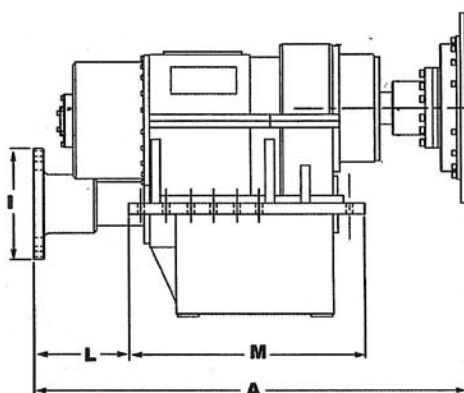
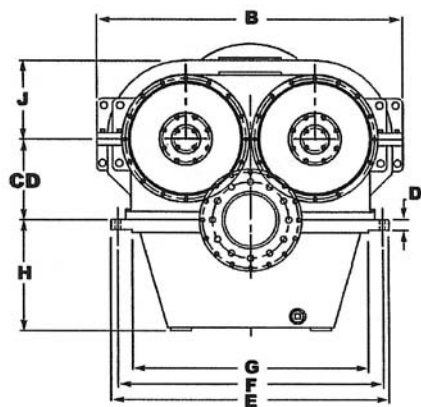
### Engineering Assistance

CAD engine and gear installation drawings, lube and cooling system drawings. Torsional analysis, or mass elastic data available. Start up and service engineers available at all times.

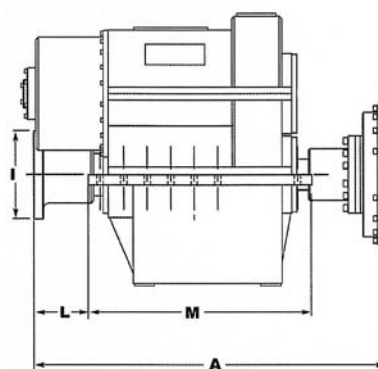
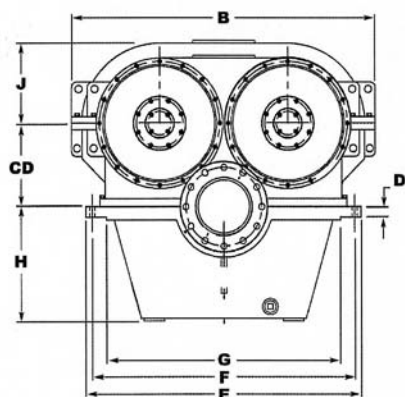
Special center distance available upon request. Consult engineering department for installation drawings and/or selection of torsional vibration damping couplings and shaft brake systems



## DRV



Model	HP	RPM	Ratio	A	B	CD	D	E	F	G	H	I	J	L	M
DRV-1711	1200/1600	1200/1800	3.0/7.0:1	59.20	na	16.56	1.50	46.25	43.50	35.75	20.93	18.00	11.00	27.00	31.50
				1504	na	421	38	1175	1105	908	532	457	279	686	800
DRV-1816	1400/2000	1200/1800	3.0/7.0:1	87.50	56.00	18.00	1.75	53.75	42.00	34.00	22.25	18.50	15.50	21.75	41.50
				2223	1420	460	45	1365	1070	865	565	470	390	550	1055
DRV-2016	1600/2250	1200/1800	3.0/7.0:1	87.50	56.75	20.00	2.00	54.25	48.00	36.00	22.00	20.00	15.75	20.00	42.50
				2223	1441	508	51	1378	1219	914	559	508	400	508	1080
DRV-2416	1600/2500	1200/1800	3.0/7.5:1	87.50	58.00	24.00	2.25	53.50	51.00	42.00	21.50	20.00	16.00	19.37	45.00
				2223	1475	610	55	1360	1295	1065	545	510	405	490	1145
DRV-2816	1800/3500	1200/1800	3.0/8.2:1	112.60	60.25	28.00	2.25	56.00	50.50	42.50	22.75	22.00	16.50	18.25	48.25
				2860	1530	711	57	1422	1283	1080	578	559	419	464	1226
DRV-3216	2000/4000	1200/1800	3.0/8.2:1	112.60	65.00	82.00	2.50	58.25	48.75	42.75	20.50	24.00	16.75	20.25	48.50
				2860	165	813	64	1480	1238	1086	521	610	425	514	1232



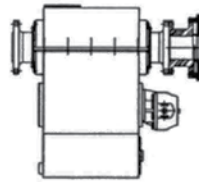
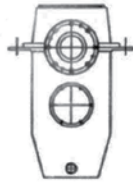
## DRI

Model	HP	RPM	Ratio	A	B	CD	D	E	F	G	H	I	J	L	M	N
DRI-1711	1200/1600	1200/1800	3.0/7.0:1	51.00	54.00	coax	1.50	46.50	43.50	36.00	16.5	16.50	10.00	7.00	30.00	11.50
				1295	1370	"	38	1180	1105	915	419	420	255	180	760	292
DRI-1816	1400/2000	1200/1800	3.0/7.0:1	62.00	54.00	coax	1.75	48.75	46.50	39.50	18.00	16.75	12.25	10.00	36.50	12.75
				15.75	1372	"	44	1238	1181	991	457	425	311	254	927	324
DRI-2016	1600/2250	1200/1800	3.0/7.0:1	75.00	54.00	coax	2.00	53.50	51.00	42.00	21.50	21.00	15.50	15.00	44.88	15.68
				1905	1370	"	50	1360	1295	1066	546	535	393	381	1140	400
DRI-2416	1600/2500	1200/1800	3.0/7.5:1	102.00	54.00	coax	2.00	56.50	62.00	54.75	24.50	22.50	18.75	26.00	46.75	18.75
				2590	1372	"	50	1435	1575	1391	622	572	476	660	1187	476
DRI-2816	1800/3500	1200/1800	3.0/8.2:1	108.00	na	coax	2.00	76.00	72.00	64.00	28.00	25.00	20.00	38.00	47.00	23.11
				2743	na	"	50	1930	1830	1625	710	635	508	965	1195	587
DRI-3216	2000/4000	1200/1800	3.0/8.2:1	112.00	64.00	coax	2.50	78.50	82.50	72.00	32.50	26.75	22.00	42.00	48.25	26.25
				2845	1626	"	64	1994	2096	1829	826	679	560	1067	1226	667



# HADU

## Haley Auxiliary Drive Units



### IHC Series

**In-line Hydraulic Clutch.** Completely self contained with pumps, lube oil systems, filters and control valves

capable of limited slipping. Front engine crank shaft drive for fire pumps or other equipment up to 500hp @ 1800 rpm. (See pages 22-23.)

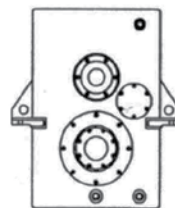
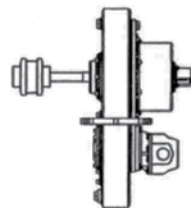
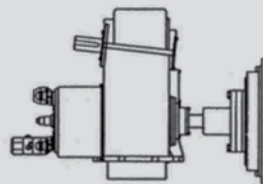
### ADV Series

#### Angular Drive Vertical

offset gears are special units with angled output drives. Best for Z-Drive

units which require the drive shaft be in direct line with the output shaft, this eliminates expensive cardigan shafts.

It comes in one of three different hydraulic drive systems, including torsionally resilient couplings and clutches with slip mode.



### V-1200 Series

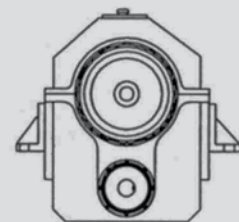
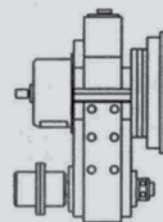
#### Vertical offset version

of extended shaft unit with pneumatic clutch for mounting directly off the main engine

front crank shaft. Suitable for driving hydraulic pumps or other auxiliary drives. Rating up to 300hp.

### V-1500 SAE

**Flywheel housing mounted unit** complete with pneumatic clutches, input rotor seals, and controls. The units are capable of increasing or decreasing RPM. Excellent for hydraulic drives, fire pump drives generator drive, etc. up to 1500hp.



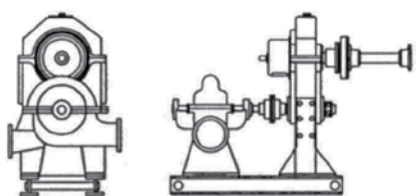
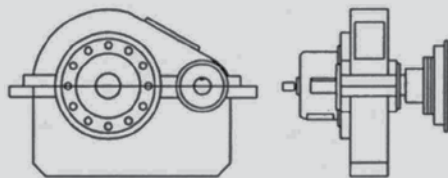


## H-1600 Series

### Horizontal offset drive

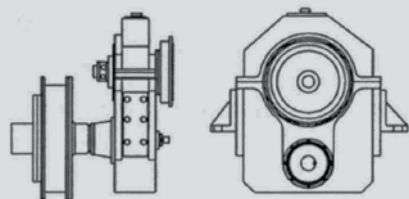
for fire pumps, generators, air compressors, large hydraulic systems, etc.

Suitable for up to 1600hp. Ratios can be spread increasers or decreaseers.



## V-1600 Series

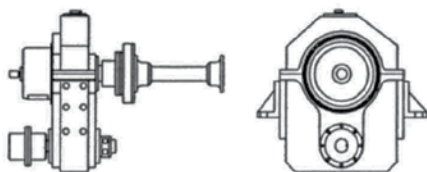
**Vertical offset unit** that is well suited for driving large fire pumps. Unit has extended shaft to clear front of engine auxiliaries. Capacity up to 1600hp with 1800 pump rpm.



## V-1600 Series SAE

**Vertical offset unit** with HRC torsional coupling mounting to SAE flywheel. It includes a self-contained

pump. It may also come complete with torsionally resilient pneumatic clutch on output shaft for starting and disengaging heavy loads. Unit rates up to 1600hp with heavy mass driven equipment.



## V1500 Series

**Vertical offset unit** with extended shaft.

The torsional coupling and pneumatic clutch are suitable for large hydraulic systems, fire pumps, generators or compressors. Rates up to 1500 hp.

### Mississippi Location:

1690 Highway 1 North :: Greenville, Mississippi 38703  
phone: 662.332.8716 :: fax: 662.335.4322

### Louisiana Location:

1245 Peter's Road :: Harvey, Louisiana 70058  
phone: 504.361.7747 :: fax: 504.361.9953 :: toll: 800-227-9198

# HRC | Highly Resilient Coupling



The entire line of Haley HRC coupling utilize the durable, multi-element elastomeric design. The low natural frequencies arising from the dynamic stiffness properties of the elastomers make the HRC line of couplings ideally suited for industrial applications and marine propulsion systems. Each HRC coupling consists of multiple elastomer elements mounted perpendicularly to the axis of rotation. The design assures tri-axis flexibility, high torsional elasticity, and high relative damping. The elastomeric characteristics allow for shaft displacements due to thermal expansions, external vibrations and misalignment due to settling and installation. Available in 11 basic sizes for each configuration from 36,000 to 780,000 lb.in.



## HRC

Size	Rating
HRC36K	36,000 lb.in
HRC50K	50,000 lb.in
HRC63K	63,000 lb.in
HRC105K	105,000 lb.in
HRC150K	150,000 lb.in
HRC185K	185,000 lb.in

Size	Rating
HRC270K	270,000 lb.in
HRC390K	390,000 lb.in
HRC540KD*	540,000 lb.in
HRC650K	650,000 lb.in
HRC780KD*	780,000 lb.in

\*Dual sizes available.





## 80 Series

The 80 series allows the maximum angular, radial and axial misalignment. The inner hub of the HRC coupling must be supported by the gearbox, generator, or pump input shaft for this series.



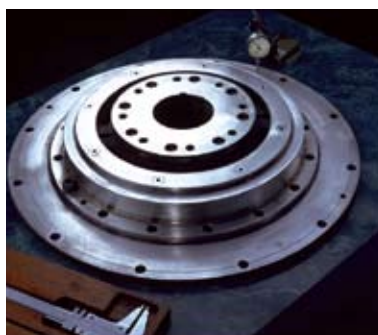
## 81 Series

The 81 series allows angular misalignment. A spherical bearing for support of the inner hub of the HRC is mounted to the flywheel.



## 82 Series

The 82 series is designed for installation with a pneumatic clutch. The existing pneumatic clutch spacer is removed and replaced with a HRC coupling without moving the engine, gearbox, generator, or pump foundations. The coupling inner hub is supported on tapered roller bearings, so angular and radial runout must be compensated for by the pneumatic clutch glands.



### Mississippi Location:

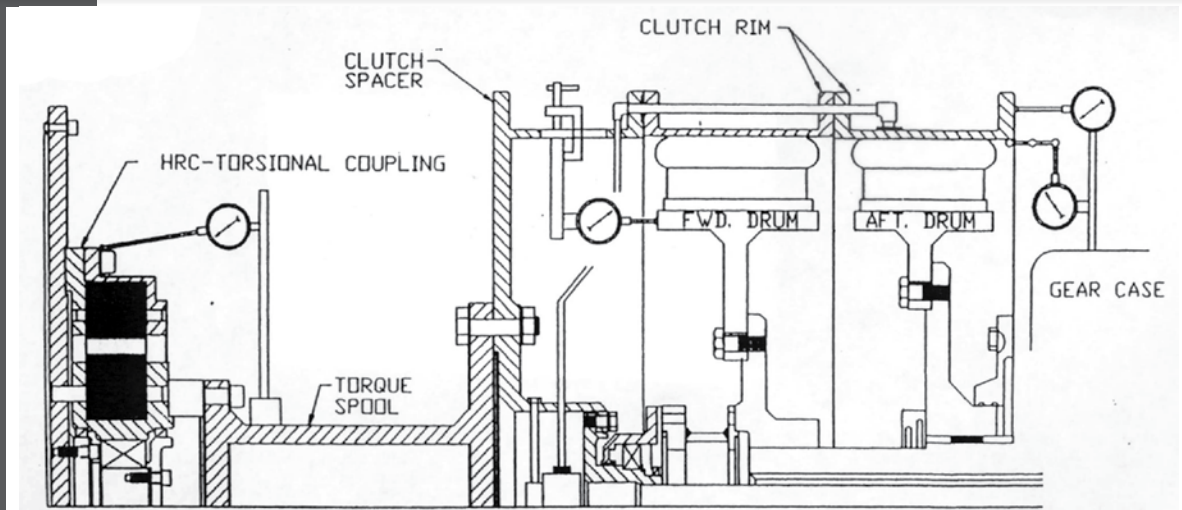
1690 Highway 1 North :: Greenville, Mississippi 38703  
phone: 662.332.8716 :: fax: 662.335.4322

### Louisiana Location:

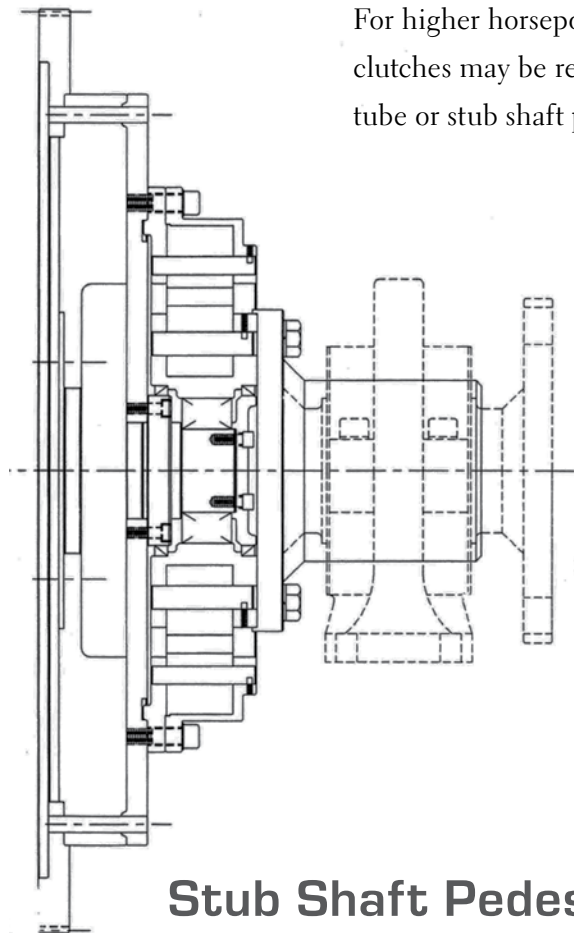
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phone: 504.361.7747 :: fax: 504.361.9953 :: toll: 800-227-9198

# HRC

## Stub Shaft Pedestal Bearing Assembly Torque Tube Assembly

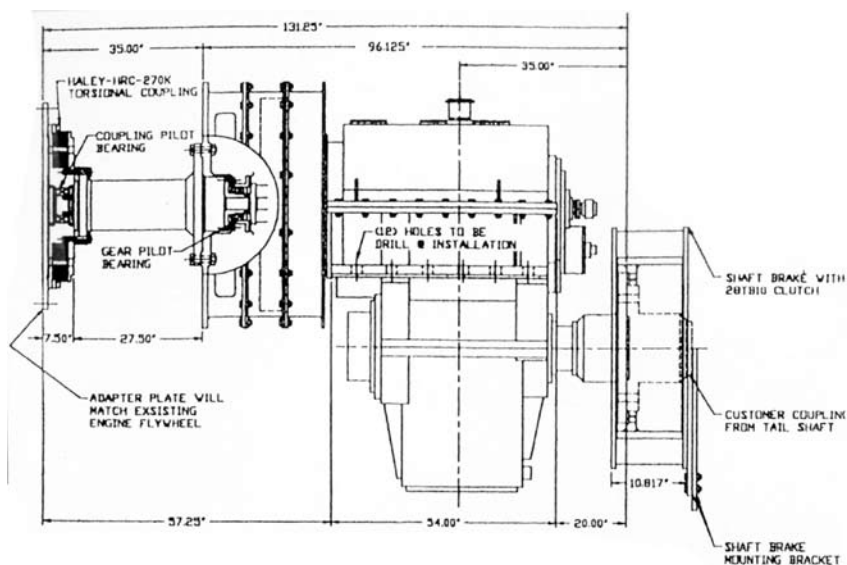


### Torque Tube Assembly

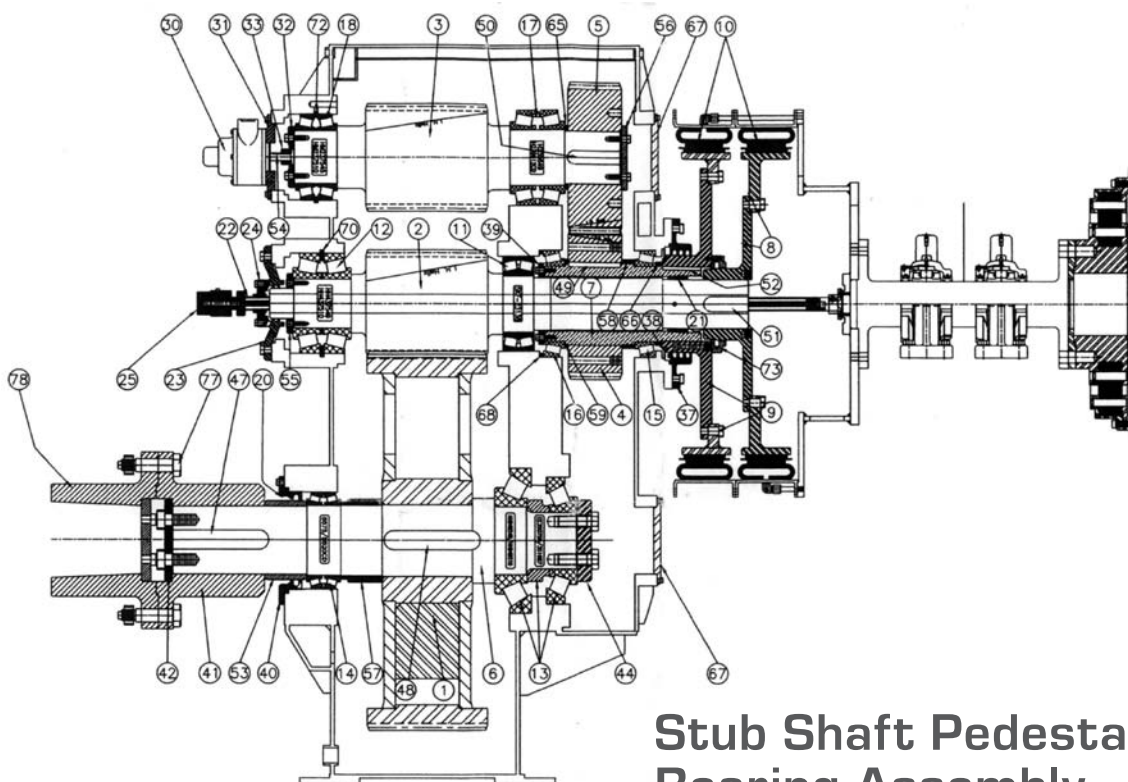


For higher horsepower applications, larger clutches may be required with torque tube or stub shaft pedestal arrangements.

### Stub Shaft Pedestal Bearing Assembly



Torque Tube Assembly



Stub Shaft Pedestal Bearing Assembly

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# HEMD

## The Haley HEMD Series Coupling

The elastomeric part of the HEMD is made from an exclusively developed rubber with improved damping characteristics as well as higher strength. This series uses a wrapping technique proven by thousands of TR clutches with many years of successful operation. We then, developed mounting dimensions to make the HEMD coupling directly interchange with the most common coupling currently in use.



### Why Choose The Haley HEMD Coupling?

- ⦿ Strong, durable outer wrap is designed to resist tearing and hold up under harsh conditions.
- ⦿ Individual rims are manufactured to fit most flywheels for EMD, ALCO, CAT, diesel engines, and larger SAE sizes.
- ⦿ Inner rims are made to fit most drive shafts, but adapter plates may be furnished to mate with pre-existing or custom furnished shaft couplings.
- ⦿ New high strength cord, now with 25% more dampening capabilities along with 30% higher strength, is made to withstand high torques and extreme shock loading.
- ⦿ High quality inner bladder can be filled with a variety of compounds to suit any particular need.
- ⦿ HALEY HEMD couplings give excellent service on engines with vibration mounts. The HEMD allows for Multi-Directional Dampening Characteristics, meaning it accepts angular, radial and axial movements. No other coupling does so much.



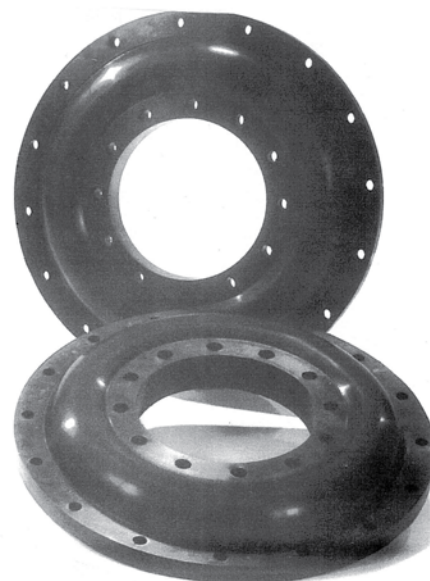
# HEZ

## The Haley HEZ Series Couplings

The elastomeric compounds of the HEZ are made for improved damping characteristics as well as higher strength. The HEZ series couplings use a proven manufacturing technique that has been in service for many years. These coupling are directly interchangeable with many of the most common coupling currently in use.

Available In:

- |             |             |
|-------------|-------------|
| ☉ HEZ 121-S | ☉ HEZ 171-S |
| ☉ HEZ 135-S | ☉ HEZ 175-S |
| ☉ HEZ 141-S | ☉ HEZ 195-S |
| ☉ HEZ 165-S |             |



COUPLINGS



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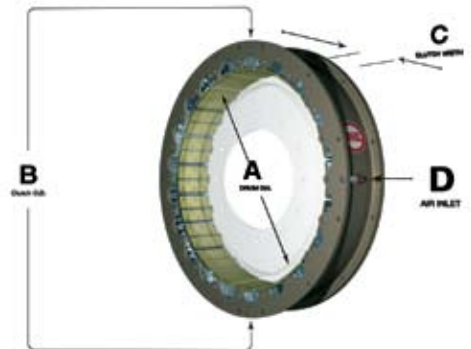
## TB | Haley TB Series Clutch



The Haley TB Series Clutches are manufactured to exacting engineering and manufacturing standards and afford an economical upgrade for most marine torque bar clutch applications. Available in 6 TB narrow sizes 20" through 42" and 6 TB wide sizes from 14" through 32" to fit all industrial and marine applications requiring high torque capacity clutches.

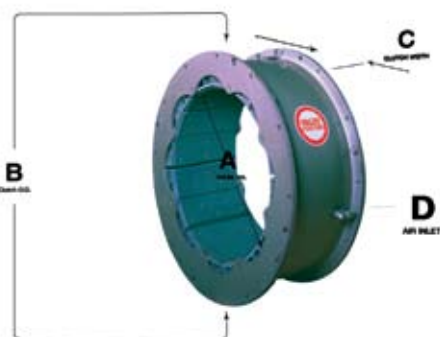
### TB Narrow Series

Size	Torque lb-in@125PSI	No. Shoes	Diameter	B. Clutch O.D.	C. Clutch Width	D. Air Inlet
20-TB-60	148800	10	20"	29.500"	7.38"	3/8"NPT
24-TB-65	216000	12	24"	34.000"	7.69"	1/2"NPT
28-TB-65	291200	14	28"	38.000"	7.69"	1/2"NPT
35-TB-65	408000	18	35"	44.625"	7.69"	3/4"NPT
37-TB-65	512000	18	37"	48.625"	7.69"	3/4"NPT
42-TB-65	608000	20	42"	53.625"	7.69"	3/4"NPT

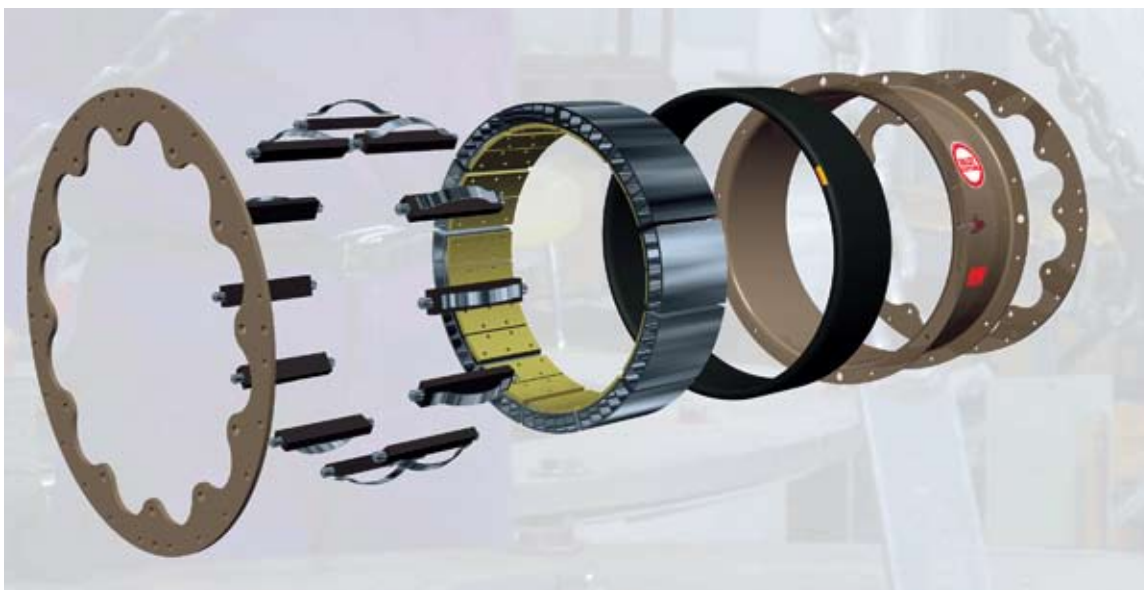


### TB Wide Series

Size	Torque lb-in@125PSI	No. Shoes	A. Drum Diameter	B. Clutch O.D.	C. Clutch Width	D. Air Inlet
14-TB-10	136000	8	14"	29.500"	13.50"	3/8"NPT
16-TB-10	182400	8	16"	34.000"	14.00"	1/2"NPT
20-TB-10	257600	8	20"	38.000"	15.12"	1/2"NPT
24-TB-10	350400	10	24"	44.625"	15.12"	3/4"NPT
28-TB-10	473600	10	28"	48.625"	16.50"	3/4"NPT
32-TB-10	660400	12	32"	53.625"	17.75"	3/4"NPT



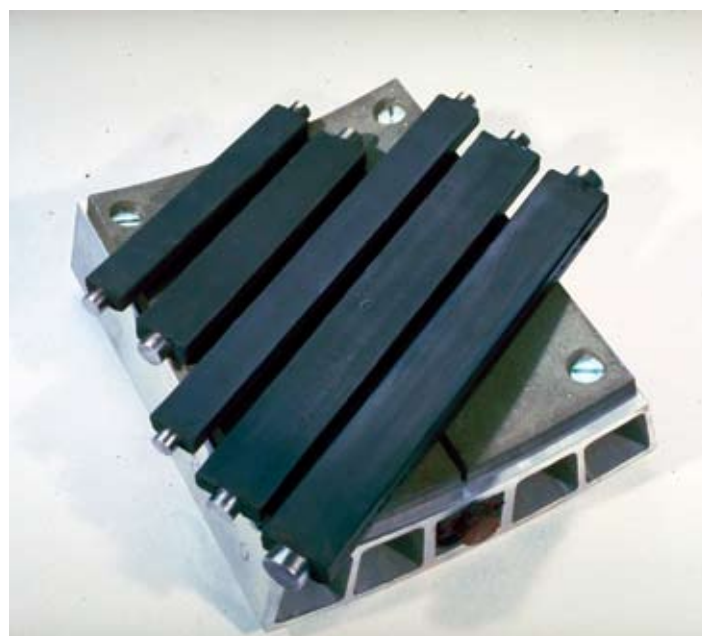




The Haley TB clutches are designed for exceptional high-torque applications and can be serviced or dismantled while still connected on the shaft. To assure versatility, they are interchangeable with all torque bar series clutches. The Haley TB series clutches adds some features that provide strength and reduced weight. All component parts are available as individual parts or in sets.

1. Side plates are constructed of carbon steel with induction hardened areas to increase durability and extend life.
2. Hard rubber coated torque bars are designed to increase friction shoe life.
3. The friction shoe assembly, made from extruded aluminum ventilation frames and/or castings combined with non-asbestos friction material.
4. Solid and Split tubes available in all sizes.

These added features, plus a large inventory, allow Haley to furnish their customers with a clutch that meets their exacting engineering and manufacturing standards. The TB series are available in narrow and wide sizes.



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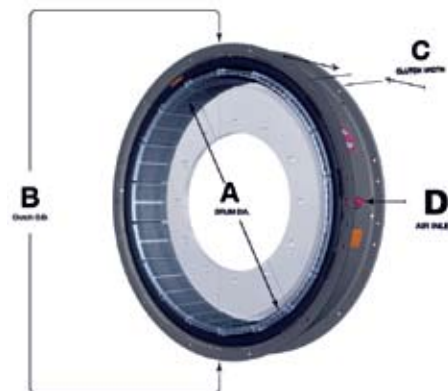
# TR | Torsionally Resilient Clutch



The Haley TR Series Clutches are a Torsionally Resilient line of clutches. This Torsional Resilience is provided by the elastic sidewalls of the air gland tube which transmits the torque between the shoes and the clutch rim. This elastomer sidewall adds significant damping for torsional vibrations.

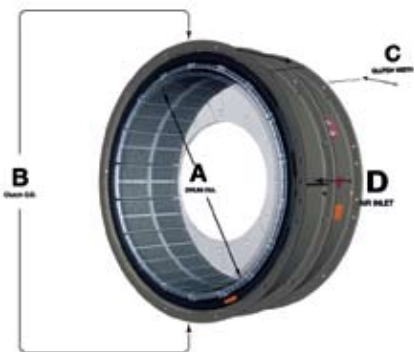
## TR Single Series

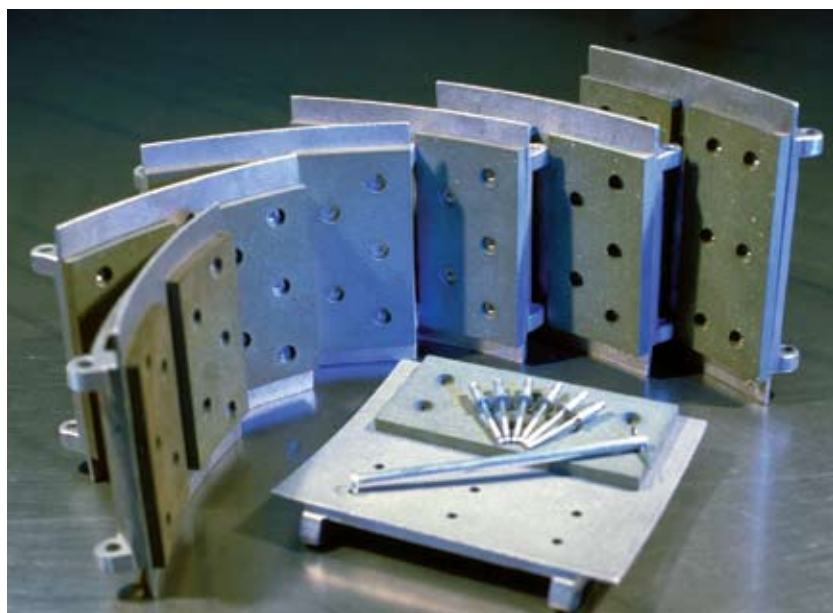
Size	Rating	No.	A. Drum	B. Clutch	C. Clutch	D. Air Inlet
1626-0010	1200@900	12	26.00"	34.75"	6.75"	3/8"NPT
1630-0010	1600@900	14	30.00"	38.00"	7.00"	1/2"NPT
1635-0010	2500@900	16	35.00"	44.375"	7.56"	3/4"NPT
1635-0010	2500@900	16	35.00"	44.375"	7.56"	3/4"NPT
1640-0010	2875@900	18	40.00"	49.875"	8.25"	3/4"NPT
1648-0010	4000@900	21	48.00"	58.00"	8.87"	3/4"NPT



## TR Dual Series

Size	Rating H.P./R.P.M.	No. Shoes	A. Drum Diameter	B. Clutch O.D.	C. Clutch Width	D. Air Inlet
1626-0010	2400@900	24	26.00"	34.75"	13.50"	3/8"NPT
1630-0010	3200@900	28	30.00"	38.00"	14.00"	1/2"NPT
1635-0010	5000@900	32	35.00"	44.375"	15.12"	3/4"NPT
1635-0010	5000@900	32	35.00"	44.375"	15.12"	3/4"NPT
1640-0010	5750@900	36	40.00"	49.875"	16.50"	3/4"NPT
1648-0010	8000@900	42	48.00"	58.00"	17.75"	3/4"NPT





Non-asbestos friction shoe assembly.



Haley drums are fabricated from high quality, high strength steel to provide excellent wear resistance and toughness. These characteristics eliminate catastrophic drum breakage typical of cast iron drums.

All TR/TB series clutch components- rims, tubes, shoes- are designed and manufactured to meet Haley's exacting engineering and production standards. The torsionally resilient air gland tube is made of the highest strength neoprene elastomer, reinforced with polyester cord, formed and constructed in precision molds. The rims are rolled, stress relieved, and finish machined to meet Haley's engineering and manufacturing standards. The friction shoe, is manufactured from aluminum castings and equipped with the very finest non-asbestos friction material available. the components along with precision balancing, rigorous testing for torsional resilience, damping coefficient, radial stiffness, and maximum torque capabilities tested by registered engineers.

The Haley Torsionally resilient clutch is your choice for dependable and reliable performance, durability and value. Six sizes available in single and dual series.

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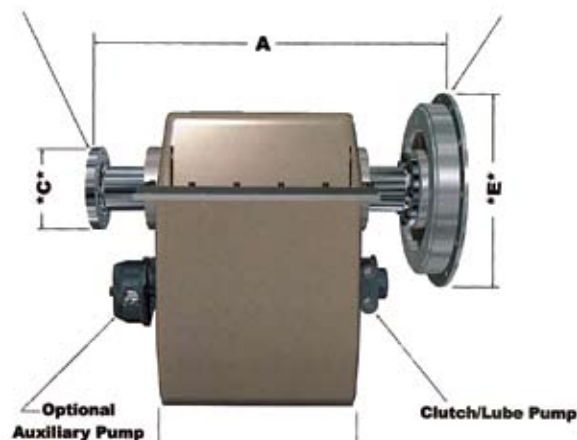
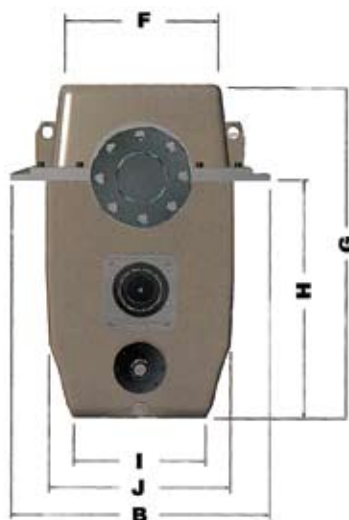
#### Louisiana Location:

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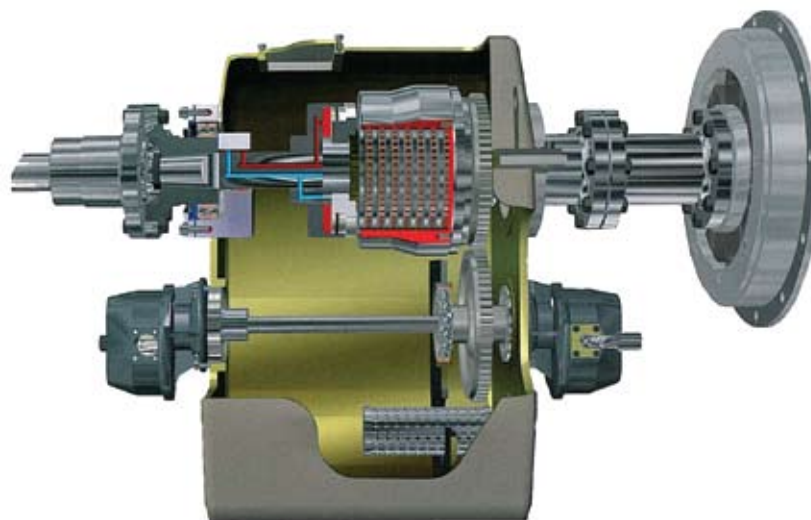


# IHC | Inline Hydraulic Clutches

Completely self contained with pumps, lube oil systems, filters and control valves capable of limited slipping. Front engine crank shaft drive for fire pumps or other equipment up to 500hp @ 1800 rpm to 6200 hp @ 900 rpm.



Model	A	B	*C*	D	*E*	F	G	H	I	J
7009-18K	33.50	20.50	**	16.75	**	11.00	30.00	23.12	7.75	12.25
7011-45K	35.00	23.00	**	17.50	**	13.00	31.00	23.12	10.00	14.50
7011-72K	35.25	23.00	**	17.75	**	13.00	31.00	23.12	10.00	14.50
7013-130K	36.75	25.50	**	19.00	**	15.75	32.00	23.12	12.50	17.00
7013-170K	37.00	25.50	**	19.25	**	15.75	32.00	23.12	12.50	17.00
7015-210K	38.25	28.00	**	20.25	**	18.50	33.00	23.25	15.00	19.50
7015-245K	38.50	28.00	**	20.50	**	18.50	33.00	23.25	15.00	19.50
7017-280K	40.50	30.50	**	21.25	**	19.50	34.00	23.25	16.75	21.25
7017-315K	40.75	30.50	**	21.50	**	19.50	34.00	23.25	16.75	21.25
7019-460K	42.50	33.00	**	22.50	**	21.50	35.00	23.25	19.00	23.50



## Applications

Broad range of applications for inline clutching requirements with connection to diesel engines.

- PTO-front, engine crankshaft power take off
- Free standing, direct flywheel mount
- Flywheel housing mount, with special hrc couplings

## Slip Control

Infinitely variable output rpm's at controlled engine rpm.

## Controls

Electric or pneumatic solenoids allow remote clutch control. Manual controls available upon request.

## Lubrication

Self contained, filtered, pressure lubrication and control system allows exceptionally long life.

## Couplings

Haley HRC couplings are available for each model of the IHC. Other coupling types may be used based on application

## Ratings

Wide range of horsepower ratings from 500 hp @ 1800 rpm to 6200 hp @ 900 rpm.

## Versatility

Mounting adapters for various engine flywheels and mating couplings  
Are available upon request.

## Service

Replacement parts are readily available with factory trained service technicians for repair- anyplace - anytime - anywhere.

Special center distance available upon request. Consult engineering department for installation drawings.

### Mississippi Location:

1690 Highway 1 North :: Greenville, Mississippi 38703  
phone: 662.332.8716 :: fax: 662.335.4322

### Louisiana Location:

1245 Peter's Road :: Harvey, Louisiana 70058  
phone: 504.361.7747 :: fax: 504.361.9953 :: toll: 800-227-9198

# The Haley Group

## Locations & Contact Information

### Manufacturing & Engineering/Gears Haley Marine Gears Inc.

P.O. Box 689  
Greenville, MS 38701

1690 Highway 1 North  
Greenville, MS 38703

Tel: 662/332-8716

Fax: 662/335-4322

email: [hmgeng@suddenlinkmail.com](mailto:hmgeng@suddenlinkmail.com)

### Manufacturing & Engineering/Clutches & Couplings Haley Clutch & Coupling Company

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### Sales/Service Department Marine Gears International, Inc.

1245 Peters Road  
Harvey, LA 70058

Tel: 504/361-7747

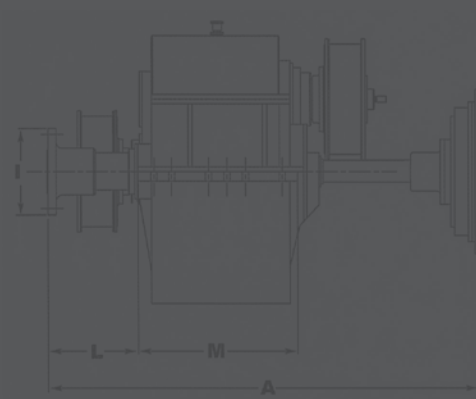
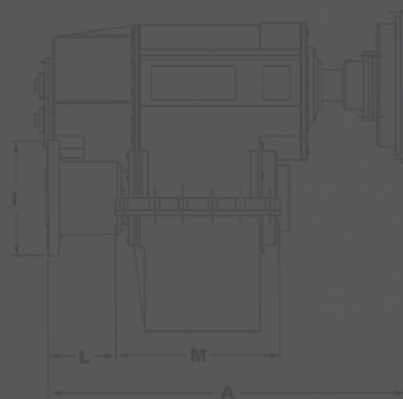
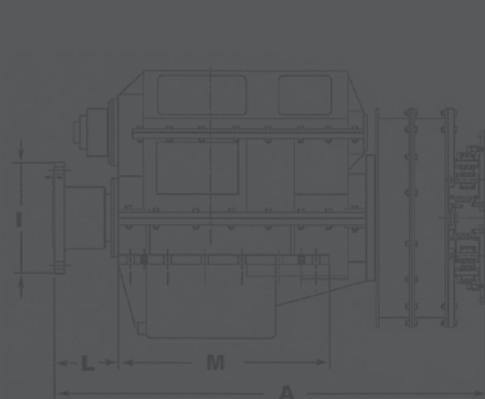
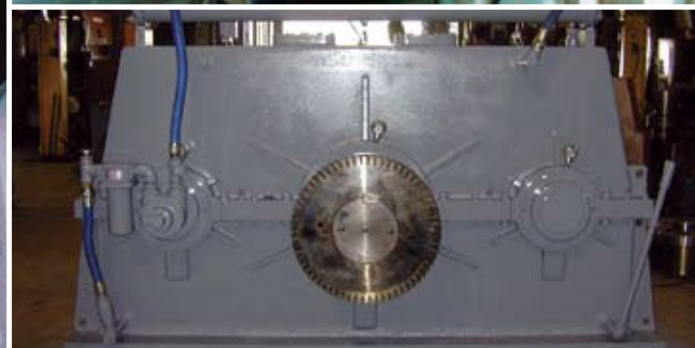
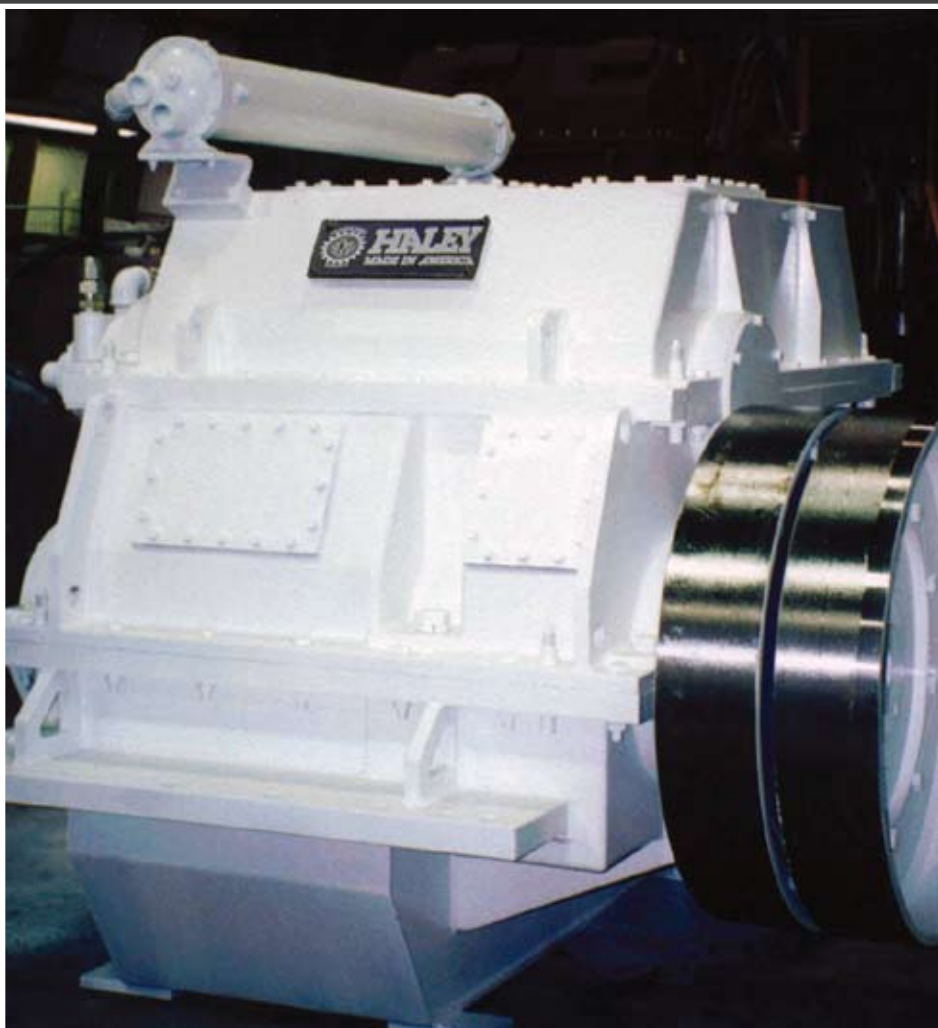
Toll Free: 800-227-9198

Fax: 504/361-9953  
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*\*Contact our sales department to find a distributor near you*







[www.haleyinc.com](http://www.haleyinc.com)

**Haley Marine Gears, Inc.**

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