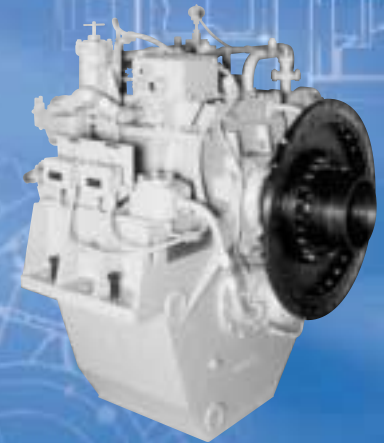
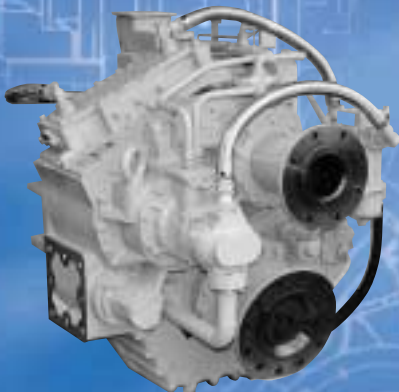




HITACHI
Inspire the Next



MARINE GEAR CAPACITY TABLES



 **Hitachi Nico Transmission Co., Ltd.**
405-3, Yoshinocho 1-chome, Kita-ku, Saitama 331-0811, Japan
TEL +81-48-652-6969 FAX +81-48-663-4948
URL: <http://www.hitachi-nico.jp>

Mar. 2004 Printed in Japan

 **Hitachi Nico Transmission Co., Ltd.**

TABLE of CONTENTS

Type Selection.....	2
Service Classification Definitions.....	4
Important Application Information.....	5
Electronic-Control for Marine Gears.....	6
New QuikShift Marine Gear.....	7

Vertical Type

Pleasure Craft.....	8-19
Marine Gear Ratings	

Intermediate Duty.....	20-31
Marine Gear Ratings	

Continuous Duty.....	32-53
Marine Gear Ratings	

In-Line Type	54-57
--------------	-------

MN Type	58-59
---------	-------

HLT Type	58-59
----------	-------

RGN Type	60-61
----------	-------

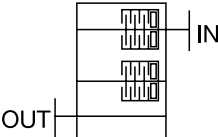
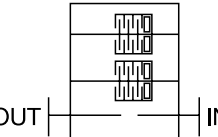
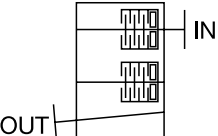
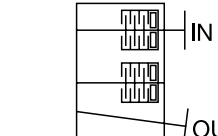
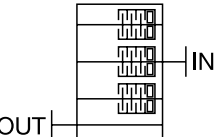
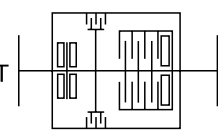
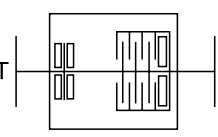
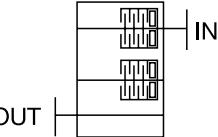
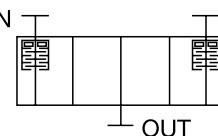
Dimensional Data.....	62-81
-----------------------	-------

Distribution Network.....	82-84
---------------------------	-------

TYPE SELECTION

Application

Page

<p>MGN-(V)</p>	<p>Reverse Reduction Gear with hydraulically operated clutches vertically offset input and output on opposite sides</p>		<p>8-12</p>
<p>MGN-Z</p>	<p>Reverse Reduction Gear with hydraulically operated clutches co-axial type input and output on opposite sides</p>		<p>54-57</p>
<p>MGNV</p>	<p>Reverse Reduction Gear with hydraulically operated clutches vertically offset input and output on narrow angle input and output on opposite sides</p>		<p>14-51</p>
<p>MGNV-C</p>	<p>Reverse Reduction Gear with hydraulically operated clutches vertically offset input and output on narrow angle input and output on same sides</p>		<p>14-51</p>
<p>MGA</p>	<p>2 Speed Reverse Reduction Gear with hydraulically operated clutches 2 speed ahead, single speed astern vertically offset input and output on opposite sides</p>		<p>-</p>
<p>MN</p>	<p>Reverse Gear with hydraulically operated clutches co-axial type</p>		<p>58-59</p>
<p>HLT</p>	<p>Hydraulically Clutch with hydraulically operated clutch main thrust bearing</p>		<p>58-59</p>
<p>RGN</p>	<p>Reduction Gear for Water Jet with hydraulically operated clutches vertically offset input and output on opposite sides aluminum casing</p>		<p>60-61</p>
<p>MMG</p>	<p>Compound Reduction Gear with hydraulically operated clutches horizontal offset multiple input and single output</p>		<p>-</p>

SERVICE CLASSIFICATION DEFINITIONS

Pleasure Craft

Maximum power capacity is intended only for personal use, planing hull pleasure craft where full engine throttle operation will be less than 5% of total time with balance of time at 87% of full throttle engine RPM or less. Marine Gears used in long range pleasure cruisers, sportfish charters or any commercial service should not be selected according to Pleasure Craft Service Classification.

Intermediate Duty

pleasure or Commercial usage of planing or semi-displacement hull craft can qualify for Intermediate Duty Service Classification if full throttle operation will average only a few hours per day with major portion of usage at partial throttle and total annual usage will be 2000 hours or less.

Examples: Long Range Pleasure Cruisers
portfish Charter Boats
Party Fishing Boats
Some Crew Boats, Lobster Boats
Harbor and Coastal Patrol Boats
earch and Rescue Boats
Fire Boats

Continuous Duty

Commonly called "Workboat Duty," these Marine Gear applications are expected to operate continuously at full engine governed speed. The propulsion engine power setting must be known and must be within the Marine Gear's allowable input rating for continuous daylong or around-the-clock service.

Most displacement hull vessels are powered for Continuous Duty service. However, the actual engine (and Marine Gear) power loading depends on:

- a. The propeller used
- b. The vessel's work assignment
- c. The captain's choice of throttle setting during continuous service

Hitachi Nico Transmission Co., Ltd. (HNT) recommends that all displacement and semidisplacement hull commercial applications be classed as Continuous Duty usage of the Marine Gear.

Examples: Fishing trawlers, Purse seiners
Lobster boats and crab boats
Tugs, Tow boats, Buoy tenders
Offshore crew/supply boats, Ferries
Research vessels, Ocean freighters

IMPORTANT APPLICATION INFORMATION

- Transmission ratings are based on use of the transmission in a torsionally compatible system utilizing suitable input torsional coupling.
- Ratings are for diesel engines at the indicated speeds unless otherwise limited.
- Consult factory for ratings applicable to gasoline engines or gas turbines or for all other applications not conforming to the given service classification definitions.
- Ratings apply to right hand engines, i.e., counterclockwise flywheel rotation when viewing rear of engine.
- The power transmission capacity of the forward and reverse components is the same. However, helical directions of gear for stboard and port unit on some models will be changed.

IMPORTANT NOTICE: Torsional vibration analysis is required and can be made by the engine manufacturer and independent consultants. HNT is prepared to assist the analysis in relation to the transmissions. Hitachi Nico Transmission Co., Ltd. advises users of these products that their safe operation depends on use in compliance with technical information provided in the product manuals. Proper installation, operation and periodical inspection and maintenance are prerequisite for safe operation of these products. It is the responsibility of users to provide and install safety devices, which may be required by recognized safety standards.

ELECTRONIC-CONTROL for MARINE GEARS

USAGE

Fishing, Tour, Fishing patrol, Fast ferry, Research, Patrol, etc.

PROPELLER CONTROLLABLE RANGE

(Small class Marine gears)

· Engine speed : From idle to 1500 rpm

· Propeller speed :

Engine low speed (Up to 700 rpm)

From 30 rpm to 90 % of speed given by direct engagement.

Engine high speed (From 700 rpm up to 1500 rpm)

The upper propeller speed controllable range is determined by the clutch capacity under each engine speed.

(Large class Marine gears)

· Engine speed : Idle

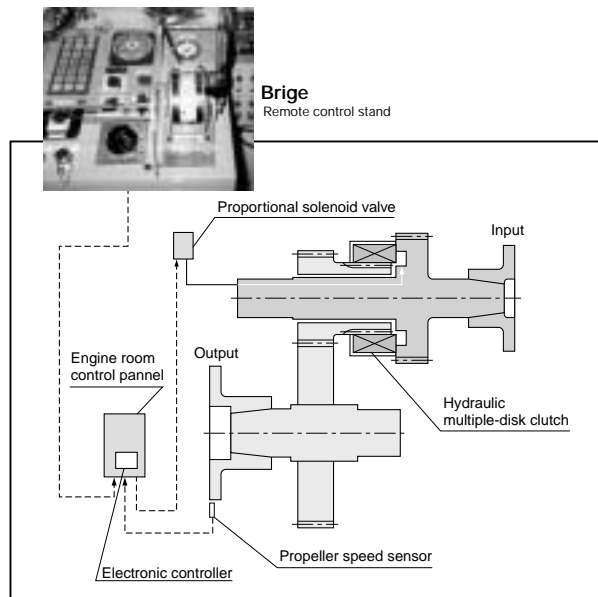
· Propeller speed :

From 30 rpm to 90 % of speed given by direct engagement.

RATTLE PREVENTIVE CONTROL

(Small class Marine Gears)

The Electronic Controller maintains output speed to be 90% of direct engagement; to prevent from gear rattling, absorbing fluctuation of engine speed and torque, during slow engine speed range.



NEW QUICKSHIFT™ MARINE Gear SERIES OFFERS SUPERIOR MANEUVERING CONTROL

HNT recently introduced a new line of marine gears that eliminate the traditional "clunky" shifting characteristics and low speed limitations of conventional marine gears.

Until now, large diesel-powered boats could not effectively maintain vessel control below five knots. Reducing engine RPMs that low would likely stall the engine.

Using a proprietary shifting technology, the new QuickShift™ marine gear instantly applies power to the driveline at low torque when shifting from neutral to full ahead or full reverse. It senses the amount of power applied and the corresponding torque resistance. It then cushions driveline shock and optimizes the power to the driveshaft to smoothly overcome that resistance within milliseconds. The result is a steep but smooth power curve, whether you go full bore or just nudge the throttle.

The QuickShift offers pleasure craft and commercial boat operators a distinct advantage for docking and other low speed activities. The QuickShift's unique ability to regulate engine torque at extremely low speeds allows slowing props down to 50 RPMs or less. This affords controllable maneuvering at slower speeds than even conventional trollingtype marine gears.

Such low speed control in conjunction with extremely fast, jolt-free shifts — even from forward to reverse — greatly facilitates precision handling situations, saving time and improving vessel performance and productivity. In addition, the new QuickShift line, with its extraordinarily smooth shift characteristics, will reduce wear and tear on engine, drivetrain and crew. Check out the new and growing line of Twin Disc QuickShift marine gears. It will definitely exceed your expectations in marine gear performance.

QUICKSHIFT™
You've got to feel it to believe it.

Licensed by Twin Disc, Incorporated in U.S.A.

PLEASURE CRAFT MARINE GEAR RATINGS

Model	SAE Hsg.	Standard Gear Ratios	Input Rating						Max. Input Speed min ⁻¹
			2800 min ⁻¹		3000 min ⁻¹		3300 min ⁻¹		
			kW	HP	kW	HP	kW	HP	
MGN 10	5	1.34, 2.04, 2.57, 2.95	44	59	47	63	52	70	3500
			2300 min ⁻¹		2800 min ⁻¹		3000 min ⁻¹		
MGN 30	2, 3	1.93, 2.43, 3.16, 3.65	88	118	107	143	114	153	3500
MGN 35	2, 3	1.93, 2.54, 3.05, 3.47	135	181	164	220	176	236	3300
MGN 40E	2, 3	1.57, 1.94, 2.33	209	280	254	340	272	365	3300
		2.91	202	271	246	330	263	353	
		3.45	177	237	215	288	231	310	
MGN 46E	1, 2, 3	1.53, 1.97, 2.58	251	337	305	409	327	439	3300
		3.05	238	319	290	389	310	416	
		3.53	205	275	250	335	267	358	
MGN 46BL	1, 2, 3	3.90	244	327	296	397	318	426	3300
		4.42	233	312	283	380	304	408	
MGN 47BL	1, 2, 3	5.00	248	333	302	405	323	433	3300
		5.55	239	320	292	392	313	420	
		6.00	234	314	284	381	305	409	
			2100 min ⁻¹		2300 min ⁻¹		2500 min ⁻¹		
MGN 56BL	0, 1, 2	4.04, 4.48	341	457	374	502	406	544	2800
MGN 57BL	0, 1	5.08	336	451	368	493	400	536	2800
		5.50	333	447	365	489	397	532	
		5.91	309	414	338	453	368	493	
MGN 76E	0, 1	1.53, 1.97, 2.44, 2.93	481	645	527	707	573	768	2600
		3.54	440	590	481	645	523	701	
MGN 76L	0, 1	2.53, 3.03, 3.48	479	642	524	703	570	764	2600
		4.00	462	620	506	679	541	725	
		4.50	410	550	449	602	488	654	
MGN 80B	0, 1	1.68, 2.03, 2.55, 2.96, 3.31, 3.48	631	846	690	925	750	1005	2600
MGN 80E	0, 1	1.55, 1.77	686	920	751	1007	817	1094	2600
		1.97	686	920	697	934	758	1016	
		2.59	657	881	645	864	701	939	
		3.04	616	826	609	816	688	922	
		3.41	591	793	583	781	634	850	
			1900 min ⁻¹		2100 min ⁻¹		2300 min ⁻¹		
MGN 86E	0, 1	2.06, 2.44, 2.93	699	937	772	1035	846	1134	2350
		3.40	678	909	749	1004	821	1101	
MGN 86EL	0, 1	3.48, 3.93	702	941	776	1041	849	1139	2350
		4.48, 5.03	678	909	749	1004	821	1101	

PLEASURE CRAFT MARINE GEAR RATINGS

Model	SAE Hsg.	Standard Gear Ratios	Input Rating						Max. Input Speed min ⁻¹
			2100 min ⁻¹		2300min ⁻¹		2500 min ⁻¹		
			kW	HP	kW	HP	kW	HP	
MGN 123	1, 2, 3	1.52, 1.97, 2.57	281	377	308	413	334	448	3300
		3.08	264	354	289	388	314	421	
		3.46	247	331	271	363	294	394	
MGN133-A	0, 1, 2	1.65, 2.00, 2.48	466	624	510	683	555	466	2800
		2.92	462	619	506	678	549	736	
		3.25	417	559	457	612	496	665	
		3.43	388	520	425	570	462	619	
MGN 153	0, 1, 2	1.65,2.00,2.48,2.92,3.25,3.43	428	574	468	628	509	683	2800
MGN 173	0, 1	1.53, 1.97	520	697	570	764	620	831	2600
		2.44	511	685	560	751	608	815	
		2.93	482	646	527	707	574	770	
		3.54	441	591	483	648	526	705	
			1900 min ⁻¹		2100 min ⁻¹		2300 min ⁻¹		
MGN 253	1	1.11, 1.49, 1.72, 1.97	912	1223	1007	1350	1104	1480	2500
		2.54	739	991	816	1094	895	1200	
		2.92	647	868	717	961	783	1050	
MGN 293B	0, 1	1.07, 1.50, 1.66, 1.74, 1.97, 2.04	1200	1608	1326	1777	1452	1946	2500
		2.45	1109	1486	1226	1643	1343	1800	
		2.82	955	1280	1056	1415	1156	1549	
MGN 294B	0.1	2.46, 3.03	1208	1619	1335	1789	1462	1959	2500
		3.48	1208	1619	1335	1789	1462	1959	
		3.93	1099	1473	1214	1627	1330	1782	
		4.43	968	1297	1070	1434	1172	1570	
MGN 335E	0	3.30, 4.11, 4.68, 4.72	1194	1601	1320	1770	1446	1939	2300
		5.21	998	1338	1103	1479	1208	1620	
		6.05	894	1199	988	1325	1082	1451	
MGN 353B	0	1.15, 1.33, 1.53, 1.73	1294	1734	1430	1916	1566	2098	2500
		2.03	1294	1734	1430	1916	1566	2098	
		2.32	1294	1734	1430	1916	1566	2098	
		2.44	1294	1734	1430	1916	1566	2098	
		2.72	1214	1627	1342	1798	1470	1970	

PLEASURE CRAFT MARINE GEAR RATINGS

Model	SAE Hsg.	Standard Gear Ratios	Input Rating						Max. Input Speed min ⁻¹
			1900 min ⁻¹		2100 min ⁻¹		2300 min ⁻¹		
			kW	HP	kW	HP	kW	HP	
MGN 433E	00, 0	1.18, 1.53, 1.71, 2.06	1470	1971	1625	2179	1780	2387	2500
MGN 433G	0, 1	1.18, 1.53, 1.73, 2.06	1530	2052	1691	2268	1852	2484	2500
		2.52	1484	1990	1640	2199	1797	2410	
			1800 min ⁻¹		1900 min ⁻¹		2400 min ⁻¹		
MGN 453A	00, 0	1.18, 1.54, 2.06, 2.52	1904	2553	2010	2695	2222	2980	2100
		2.92	1857	2490	1960	2628	2166	2905	
		3.25	1651	2214	1744	2337	1926	2583	
		3.43	1536	2060	1621	2174	1791	2402	
MGN 493A	00, 0	1.16, 2.08, 1.52, 2.47	2413	3236	2587	3469	2858	3833	2100
		2.96	2355	3158	2486	3334	2747	3684	
MGN 532	0	1.45, 1.57, 1.70, 1.84, 2.00	2582	3462	2725	3654	3012	4039	2100
		2.36	2423	3249	2557	3429	2827	3791	
		2.50	2277	3053	2404	3224	2657	3563	
MGN 533	—	2.60, 2.79	2582	3462	2725	3654	3012	4039	2100
		3.00, 3.24	2423	3249	2557	3429	2827	3791	
		3.50	2277	3053	2404	3224	2657	3563	
			1500 min ⁻¹		1800 min ⁻¹		2000 min ⁻¹		
MGN 632	—	1.49, 1.68, 1.83, 2.00, 2.29, 2.52	2790	3741	3348	4490	3720	4989	2000
MGN 633	—	2.64, 2.85, 3.09, 3.37, 3.52	2790	3741	3348	4490	3720	4989	2000
MGN 732	—	1.46, 1.68, 1.84, 2.03, 2.25, 2.50	3453	4630	4143	5556	4604	6174	2000
MGN 733	—	2.66, 2.90, 3.03, 3.33, 3.50	3453	4630	4143	5556	4604	6174	2000
			1200 min ⁻¹		1500 min ⁻¹		1800 min ⁻¹		
MGN 832	—	1.45, 1.72, 1.88, 2.06, 2.27, 2.50	3521	4722	4402	5903	5281	7082	1800

PLEASURE CRAFT MARINE GEAR RATINGS

Model	SAE Hsg.	Standard Gear Ratios	Input Rating						Max. Input Speed min ⁻¹
			2100 min ⁻¹		2300 min ⁻¹		2500 min ⁻¹		
			kW	HP	kW	HP	kW	HP	
MGNV 123	3	1.53	345	462	378	507	411	551	3300
		2.03	332	445	363	487	395	529	
		2.46	322	432	353	473	384	515	
		2.96	290	389	317	425	345	462	
MGNV 133	1	1.57, 1.97, 2.48, 2.96	433	580	474	635	515	690	2800
MGNV 172E	0, 1	1.56, 1.78, 2.03, 2.37	591	793	648	869	732	982	2600
MGNV 172EC	—	1.56, 1.78, 2.03, 2.37	591	793	648	869	732	982	2600
			1900 min ⁻¹		2100 min ⁻¹		2300 min ⁻¹		
MGNV 253	1	1.51, 1.73, 2.07, 2.44	912	1223	1007	1350	1104	1480	2500
MGNV 253C	—	2.58	862	1156	953	1278	1044	1400	
		2.95	647	868	715	959	783	1050	
MGNV 293B	0,1	1.29	1112	1490	1229	1647	1346	1804	2500
		1.51	1082	1450	1196	1603	1310	1755	
		1.74	1158	1552	1281	1717	1403	1880	
		2.03	1158	1552	1242	1664	1323	1773	
		2.48	1082	1450	1196	1603	1310	1755	
		2.80	954	1278	1055	1414	1156	1549	
MGNV 293BC	—	1.29, 1.51, 1.74, 2.03, 2.48	1082	1450	1196	1603	1310	1755	2500
		2.8	954	1278	1055	1414	1156	1549	
MGNV 353B	0	1.55, 1.72, 2.09, 2.42	1294	1734	1430	1916	1566	2098	2500
		2.73	1229	1647	1358	1820	1487	1993	
MGNV 353BC	—	1.55, 1.72, 2.09, 2.42	1294	1734	1430	1916	1566	2098	2500
		2.73	1229	1647	1358	1820	1461	1958	
			1800 min ⁻¹		1900 min ⁻¹		2100 min ⁻¹		
MGNV 453A	00, 0	1.48, 1.97, 2.50	1904	2553	2010	2695	2222	2980	2100
MGNV 453AC	—	2.79	1891	2536	1996	2677	2206	2958	
		2.93	1847	2477	1949	2614	2154	2889	
MGNV 493A	00, 0	1.49, 2.08, 2.44	2413	3236	2587	3469	2858	3833	2100
MGNV 493AC	—	2.93	2334	3130	2464	3304	2724	3653	

QUICKSHIFT TYPE MARINE GEAR PLEASURE CRAFT MARINE GEAR RATINGS

Model	SAE Hsg.	Standard Gear Ratios	Input Rating						Max. Input Speed min ⁻¹
			2100 min ⁻¹		2300 min ⁻¹		2500 min ⁻¹		
			kW	HP	kW	HP	kW	HP	
MGX 193	1	0.93, 1.02, 1.12, 1.50, 1.74, 2.04	619	830	673	900	716	960	3000
		2.54	619	830	673	900	716	960	
		3.00	528	708	578	775	629	843	
MGX 202	0, 1	1.00, 1.28, 1.48, 1.73, 2.04	817	1096	895	1200	973	1305	2800
		2.57	734	984	820	1100	890	1149	
		2.90	668	896	746	1000	810	1086	
MGX 242	0, 1	1.20, 1.33, 1.48, 1.75, 1.96	949	1273	1007	1350	1064	1427	2500
		2.50	841	1128	916	1228	978	1311	
MGX 281	0, 1	1.20, 1.33, 1.48, 1.75, 1.96	1049	1407	1120	1502	1190	1596	2500
			1900 min ⁻¹		2100 min ⁻¹		2300 min ⁻¹		
MGX 293B	0, 1	1.07, 1.50, 1.66, 1.74, 1.97, 2.04	1200	1608	1326	1777	1452	1946	2500
		2.45	1109	1486	1226	1643	1343	1800	
		2.82	955	1280	1056	1415	1156	1549	
MGX 294B	0, 1	2.46, 3.03	1208	1619	1335	1789	1462	1959	2500
		3.48	1208	1619	1335	1789	1462	1959	
		3.93	1099	1473	1214	1627	1330	1782	
		4.43	968	1297	1070	1434	1172	1570	
MGX 353B	0	1.15, 1.33, 1.53, 1.73	1294	1734	1430	1916	1566	2098	2500
		2.03	1294	1734	1430	1916	1566	2098	
		2.32	1294	1734	1430	1916	1566	2098	
		2.44	1294	1734	1430	1916	1566	2098	
		2.72	1214	1627	1342	1798	1470	1970	

QUICKSHIFT TYPE MARINE GEAR PLEASURE CRAFT MARINE GEAR RATINGS

Model	SAE Hsg.	Standard Gear Ratios	Input Rating						Max. Input Speed min ⁻¹
			2100 min ⁻¹		2300 min ⁻¹		2500 min ⁻¹		
			kW	HP	kW	HP	kW	HP	
MGXV 192	1	1.03, 1.20, 1.48, 1.75, 1.92, 2.04	619	830	673	900	701	940	3000
		2.50	619	830	673	900	701	940	
MGXV 192C	—	1.03, 1.20, 1.48, 1.75, 1.92, 2.04	619	830	673	900	701	940	2800
		2.50	619	830	673	900	701	940	
MGXV 202	0, 1	1.10, 1.25, 1.53, 1.79, 2.00	817	1096	895	1200	973	1305	2500
		2.52	734	1097	820	1100	890	1149	
MGXV 202C	—	1.10, 1.25, 1.53, 1.79, 2.00	817	1096	895	1200	973	1305	2500
		2.52	734	1097	820	1100	890	1149	
MGXV 242	0, 1	1.26, 1.48, 1.75, 1.96	949	1273	1007	1350	1064	1427	2500
		2.50	878	1177	956	1282	1020	1368	
MGXV 242C	—	1.26, 1.48, 1.75, 1.96	949	1273	1007	1350	1064	1427	2500
		2.50	878	1177	956	1282	1020	1368	
MGXV 281	0, 1	1.26, 1.48, 1.75, 1.96	1049	1407	1120	1502	1190	1596	2500
MGXV 281C	—	.26, 1.48, 1.75, 1.96	1049	1407	1120	1502	1190	1596	2500
			1900 min ⁻¹		2100 min ⁻¹		2300 min ⁻¹		
MGXV 293B	0, 1	1.29	1112	1490	1229	1647	1346	1804	2500
		1.51	1082	1450	1196	1603	1310	1755	
		1.74	1158	1552	1281	1717	1403	1880	
		2.03	1158	1552	1242	1664	1323	1773	
		2.48	1082	1450	1196	1603	1310	1755	
		2.80	954	1278	1055	1414	1156	1549	
MGXV 293BC	—	1.29, 1.51, 1.74, 2.03, 2.48	1082	1450	1196	1603	1310	1755	2500
		2.8	954	1278	1055	1414	1156	1549	
MGXV 353B	0	1.55, 1.72, 2.09, 2.42	1294	1734	1430	1916	1566	2098	2500
		2.73	1229	1647	1358	1820	1487	1993	
MGXV 353BC	—	1.55, 1.72, 2.09, 2.42	1294	1734	1430	1916	1566	2098	2500
		2.73	1229	1647	1358	1820	1461	1958	

INTERMEDIATE DUTY MARINE GEAR RATINGS

Model	SAE Hsg.	Standard Gear Ratios	Input Rating						Max. Input Speed min ⁻¹
			1200 min ⁻¹		1600 min ⁻¹		1800 min ⁻¹		
			kW	HP	kW	HP	kW	HP	
MGN 80EL	0,1	3.56, 4.13	392	525	523	701	588	788	2300
		4.56	391	524	521	698	586	785	
		4.91	366	490	488	654	549	736	
		5.24	343	460	457	612	514	689	
MGN 90BL	0	2.51, 3.06, 3.48, 3.93, 4.46	632	847	842	1129	948	1270	2350
		4.79	569	763	759	1017	854	1144	
MGN 91BL	0	5.04, 5.52, 5.92	644	863	858	1150	965	1293	2350
		6.45	597	800	797	1068	896	1201	
		6.86	542	726	723	969	813	1089	
			1900 min ⁻¹		2100 min ⁻¹		2300 min ⁻¹		
MGN 123	1, 2, 3	1.52, 1.97, 2.57	242	325	267	358	293	393	3300
		3.08	227	305	251	337	275	369	
		3.46	214	287	236	316	259	347	
MGN 133-A	0, 1, 2	1.65, 2.00, 2.48	416	557	460	616	503	674	2800
		2.92	384	515	424	568	465	623	
		3.25	335	449	371	497	406	544	
		3.43	312	418	344	461	377	505	
MGN 153	0, 1, 2	1.65,2.00,2.48,2.92,3.25,3.43	366	491	404	542	443	594	2800
MGN 173	0, 1	1.53, 1.97, 2.44, 2.93	415	557	459	616	502	673	2600
		3.54	374	502	413	554	453	607	

INTERMEDIATE DUTY MARINE GEAR RATINGS

Model	SAE Hsg.	Standard Gear Ratios	Input Rating						Max. Input Speed min ⁻¹
			1800 min ⁻¹		1900 min ⁻¹		2100 min ⁻¹		
			kW	HP	kW	HP	kW	HP	
MGN 253	1	1.11	778	1043	802	1075	864	1159	2500
		1.49, 1.72	731	980	757	1015	808	1084	
		1.97	685	919	705	945	757	1015	
		2.54	572	767	603	809	654	877	
		2.92	441	591	518	695	575	771	
MGN 293B	0, 1	1.07, 1.50, 1.66, 1.74, 1.97, 2.04	841	1127	875	1173	942	1262	2500
		2.45	812	1088	857	1148	937	1256	
		2.82	701	939	740	992	818	1096	
MGN 294B	0.1	2.46 3.03	882	1182	925	1240	1000	1340	2500
		3.48	849	1138	882	1182	945	1266	
		3.93	774	1037	804	1077	861	1154	
		4.43	722	967	750	1005	804	1077	
MGN 335E	0	3.30, 4.11	819	1097	864	1159	955	1281	2300
		4.68, 4.72	777	1041	820	1100	906	1215	
		5.22	694	930	732	982	809	1085	
		6.05	617	826	651	873	719	964	
MGN 353B	0	1.15, 1.33, 1.53, 1.73	1047	1403	1087	1457	1166	1562	2500
		2.03	1025	1374	1142	1530	1142	1530	
		2.32	1019	1365	1136	1522	1136	1522	
		2.44	987	1323	1100	1474	1100	1474	
		2.72	915	1226	1019	1365	1019	1365	

INTERMEDIATE DUTY MARINE GEAR RATINGS

Model	SAE Hsg.	Standard Gear Ratios	Input Rating						Max. Input Speed min ⁻¹
			1800 min ⁻¹		1900 min ⁻¹		2100 min ⁻¹		
			kW	HP	kW	HP	kW	HP	
MGN 433E	00, 0	1.18	1260	1690	1330	1784	1470	1971	2500
		1.53, 1.71, 2.06	1350	1810	1425	1911	1575	2112	
MGN 433G	0, 1	1.18, 1.53, 1.73, 2.06	1450	1944	1530	2052	1691	2268	2500
		2.52	1248	1674	1318	1767	1457	1954	
MGN 453A	00, 0	1.18, 1.54, 2.06, 2.52, 2.92	1655	2219	1747	2343	1931	2589	2100
		3.25	1401	1879	1478	1982	1634	2191	
		3.43	1126	1510	1189	1594	1314	1762	
MGN 493A	00, 0	1.16, 2.08, 1.52	2252	3020	2378	3189	2628	3524	2100
		2.47	2206	2958	2328	3122	2573	3450	
		2.96	2196	2945	2317	3107	2560	3433	
MGN 532	0	1.45, 1.57, 1.70, 1.84, 2.00	2343	3142	2473	3317	2734	3666	2100
		2.36	2171	2911	2292	3074	2533	3397	
		2.50	2039	2734	2152	2886	2379	3190	
MGN 533	—	2.60, 2.79	2343	3142	2473	3316	2734	3666	2100
		3.00, 3.24	2171	2911	2292	3074	2533	3397	
		3.50	2039	2734	2152	2886	2379	3190	
			1500 min ⁻¹		1600 min ⁻¹		1800 min ⁻¹		
MGN 632	—	1.49,1.68,1.83,2.00,2.29,2.52	2493	3343	2660	3567	2992	4012	2000
MGN 633	—	2.64, 2.85, 3.09, 3.37, 3.52	2493	3343	2660	3567	2992	4012	2000
MGN 732	—	1.46,1.68,1.84,2.03,2.25,2.50	3122	4187	3330	4466	3747	5025	2000
MGN 733	—	2.66, 2.90, 3.03, 3.33, 3.50	3122	4187	3330	4466	3747	5025	2000
MGN 832	—	1.45,1.72,1.88,2.06,2.27,2.50	4016	5385	4284	5745	4819	6462	1800

INTERMEDIATE DUTY MARINE GEAR RATINGS

Model	SAE Hsg.	Standard Gear Ratios	Input Rating						Max. Input Speed min ⁻¹
			1900 min ⁻¹		2100 min ⁻¹		2300 min ⁻¹		
			kW	HP	kW	HP	kW	HP	
MGNV 123	3	1.53 2.03, 2.46	258	346	285	382	312	418	3300
		2.96	246	330	272	365	298	399	
MGNV 133	1	1.57 1.97, 2.48	366	491	405	543	443	594	2800
		2.96	366	491	405	543	436	584	
MGNV 172E	0, 1	1.56, 1.78, 2.03, 2.37	514	689	568	762	623	835	2600
MGNV 172EC	—	1.56, 1.78, 2.03, 2.37	514	689	568	762	623	835	2600
MGNV 253	1	1.51, 1.73	822	1102	897	1203	959	1286	2500
		2.07	695	932	746	1000	795	1066	
		2.44	600	805	648	869	692	928	
		2.95	530	711	577	774	618	829	
MGNV 253C	—	1.51, 1.73	750	1006	806	1081	864	1159	2500
		2.07	684	917	736	987	791	1061	
		2.44	600	805	647	867	695	932	
		2.95	530	711	586	786	642	861	
			1800 min ⁻¹		1900 min ⁻¹		2100 min ⁻¹		
MGNV 293B	0, 1	1.29, 1.51, 1.74	894	1198	929	1245	996	1335	2500
		2.03, 2.48	765	1025	853	1143	909	1218	
		2.8	754	1010	840	1126	895	1199	
MGNV293BC	—	1.29, 1.51, 1.74	894	1198	929	1245	996	1335	2500
		2.03, 2.48	765	1025	795	1065	853	1143	
		2.8	754	1010	783	1049	840	1126	
MGNV 353B	0	1.55, 1.72, 2.09	1103	1478	1165	1561	1287	1725	2500
		2.42	979	1312	1018	1364	1091	1462	
		2.73	870	1166	904	1211	970	1300	
MGNV 353BC	—	1.55	1024	1372	1064	1426	1141	1529	2500
		1.72	990	1327	1029	1379	1104	1479	
		2.09	944	1250	981	1315	1052	1410	
		2.42	907	1215	942	1262	1011	1355	
		2.73	822	1101	854	1144	916	1227	
MGNV 453A	00, 0	1.48, 1.97, 2.50, 2.79	1693	2270	1787	2396	1975	2648	2100
MGNV 453AC	—	2.93	1646	2207	1737	2329	1920	2575	
MGNV 493A	00, 0	1.49, 2.08	2340	3138	2470	3312	2730	3661	2100
MGNV 493AC	—	2.44, 2.93	2196	2945	2317	3107	2560	3433	

QUICKSHIFT TYPE MARINE GEAR INTERMEDIATE DUTY MARINE GEAR RATINGS

Model	SAE Hsg.	Standard Gear Ratios	Input Rating						Max. Input Speed min ⁻¹
			1900 min ⁻¹		2100min ⁻¹		2300 min ⁻¹		
			kW	HP	kW	HP	kW	HP	
MGX 193	1	0.93, 1.02, 1.12, 1.50, 1.74, 2.04	466	625	503	675	552	740	3000
		2.54	429	575	466	625	507	680	
		3.00	408	547	451	605	492	660	
MGX 202	0, 1	1.00, 1.28, 1.48, 1.73, 2.04	540	724	560	851	600	805	2800
		2.57	540	724	560	751	600	805	
		2.90	504	676	522	900	560	751	
MGX 242	0, 1	1.20, 1.33, 1.48, 1.75, 1.96	726	974	746	1000	836	1121	2500
		2.50	614	823	671	900	726	974	
MGX 281	0, 1	1.20, 1.33, 1.48, 1.75, 1.96	781	1051	806	1081	903	1211	2500
MGX 293B	0, 1	1.07, 1.50, 1.66, 1.74, 1.97, 2.04	841	1127	875	1173	942	1262	2500
		2.45	812	1088	857	1148	937	1256	
		2.82	701	939	740	992	818	1096	
MGX 294B	0, 1	2.46, 3.03	882	1182	925	1240	1000	1340	2500
		3.48	849	1138	882	1182	945	1266	
		3.93	774	1037	804	1077	861	1154	
		4.43	722	967	750	1005	804	1077	
MGX 353B	0	1.15, 1.33, 1.53, 1.73	1047	1403	1087	1457	1166	1562	2500
		2.03	1025	1374	1142	1530	1142	1530	
		2.32	1019	1365	1136	1522	1136	1522	
		2.44	987	1323	1100	1474	1100	1474	
		2.72	915	1226	1019	1365	1019	1365	

QUICKSHIFT TYPE MARINE GEAR INTERMEDIATE DUTY MARINE GEAR RATINGS

Model	SAE Hsg.	Standard Gear Ratios	Input Rating						Max. Input Speed min ⁻¹
			1900 min ⁻¹		2100 min ⁻¹		2300 min ⁻¹		
			kW	HP	kW	HP	kW	HP	
MGXV 192	1	1.03, 1.20, 1.48, 1.75, 1.92, 2.04	424	568	466	625	503	675	3000
		2.50	367	492	400	536	433	580	
MGXV 192C	—	1.03, 1.20, 1.48, 1.75, 1.92, 2.04	424	568	466	625	503	675	2800
		2.50	367	492	400	536	433	580	
MGXV 202	0, 1	1.10, 1.25, 153, 1.79, 2.00	540	724	560	751	600	805	2500
		2.52	540	724	560	751	600	805	
MGXV 202C	—	1.10, 1.25, 153, 1.79, 2.00	540	724	560	751	600	805	2500
		2.52	540	724	560	751	600	805	
MGXV 242	0, 1	1.26, 1.48, 1.75, 1.96	726	974	746	1000	836	1121	2500
		2.50	614	823	671	900	726	974	
MGXV 242C	—	1.26, 1.48, 1.75, 1.96	726	974	746	1000	836	1121	2500
		2.50	614	823	671	900	726	974	
MGXV 281	0, 1	1.26, 1.48, 1.75, 1.96	784	1051	806	1081	903	1211	2500
MGXV 281C	—	1.26, 1.48, 1.75, 1.96	784	1051	806	1081	903	1211	2500
			1800 min ⁻¹		1900 min ⁻¹		2100 min ⁻¹		
MGXV 293B	0, 1	1.29, 1.51, 1.74	894	1198	929	1245	996	1335	2500
		2.03, 2.48	765	1025	853	1143	909	1218	
		2.8	754	1010	840	1126	895	1199	
MGXV 293BC	—	1.29, 1.51, 1.74	894	1198	929	1245	996	1335	2500
		2.03, 2.48	765	1025	795	1065	853	1143	
		2.8	754	1010	783	1049	840	1126	
MGXV 353B	0	1.55, 1.72, 2.09	1103	1478	1165	1561	1287	1725	2500
		2.42	979	1312	1018	1364	1091	1462	
		2.73	870	1166	904	1211	970	1300	
MGXV 353BC	—	1.55	1024	1372	1064	1426	1141	1529	2500
		1.72	990	1327	1029	1379	1104	1479	
		2.09	944	1250	981	1315	1052	1410	
		2.42	907	1215	942	1262	1011	1355	
		2.73	822	1101	854	1144	916	1227	

CONTINUOUS DUTY MARINE GEAR RATINGS

Model	SAE Hsg.	Standard Gear Ratios	Input Rating						Max. Input Speed min ⁻¹
			1800 min ⁻¹		2300 min ⁻¹		2600 min ⁻¹		
			kW	HP	kW	HP	kW	HP	
MGN 10	5	1.34, 2.04, 2.57, 2.95	26	35	34	46	38	51	3500
MGN 10L	5	3.56, 3.96, 4.48	26	35	34	46	38	51	3500
MGN 30	2, 3	1.93, 2.43, 3.16	64	86	82	110	92	123	3500
		3.65	59	79	75	101	84	113	3300
MGN 35	2, 3	1.93, 2.54, 3.05, 3.47	98	131	125	168	141	189	3300
			1800 min ⁻¹		2100 min ⁻¹		2400 min ⁻¹		
MGN 40E	2, 3	1.57, 1.94, 2.33	153	205	179	240	204	274	3300
		2.91	150	201	175	235	200	268	
		3.45	126	169	147	197	168	225	
MGN 41L	1, 2	5.05, 5.40, 6.00	88	118	103	138	117	157	3300
MGN 46E	1, 2, 3	1.53, 1.97, 2.58	183	245	213	286	243	326	3300
		3.05	175	235	204	274	233	312	
		3.53	151	202	176	236	201	270	
MGN 46BL	1, 2, 3	3.90	179	240	208	279	237	318	3300
		4.42	172	231	200	268	228	306	
MGN. 47BL	1, 2, 3	5.00	181	243	211	283	241	323	3300
		5.55	175	235	204	274	233	312	
		6.00	172	231	200	268	228	306	
			1200 min ⁻¹		1600 min ⁻¹		1800 min ⁻¹		
MGN 56BL	0, 1, 2	4.04	180	241	239	320	270	362	2800
		4.48	176	236	232	311	263	353	
MGN 56GL	0, 1, 2	4.04	201	270	269	361	302	405	2800
		4.48	192	257	256	343	288	386	
MGN 57BL	0, 1, 2	5.08	180	241	240	322	270	362	2800
		5.50	178	239	237	318	267	358	
		5.91	165	221	221	296	248	333	
MGN 58EL	0, 1	5.85	212	284	283	380	319	428	2700
		6.58	191	256	255	342	287	385	
		7.00	180	241	240	322	270	362	
MGN 76E	0, 1	1.53, 1.97, 2.44, 2.93	256	343	341	457	384	515	2600
		3.54	231	310	308	413	347	465	
MGN 76L	0, 1	2.53, 3.03, 3.48, 4.00	256	343	341	457	384	515	2600
		4.50	231	310	308	413	347	465	
MGN 80B	0, 1	1.68, 2.03, 2.55	333	446	444	595	499	669	2600
		2.96, 3.31	333	446	444	595	487	653	
		3.48	314	421	419	562	472	633	
MGN 80E	0, 1	1.55, 1.97, 2.59, 3.04	343	460	456	611	515	691	2600
		3.41	339	455	452	606	500	671	

CONTINUOUS DUTY MARINE GEAR RATINGS

Model	SAE Hsg.	Standard Gear Ratios	Input Rating						Max. Input Speed min ⁻¹
			1200 min ⁻¹		1600 min ⁻¹		1800 min ⁻¹		
			kW	HP	kW	HP	kW	HP	
MGN 80EL	0, 1	3.56	365	489	486	651	546	732	2300
		4.13	365	489	486	651	520	697	
		4.56	365	489	486	651	507	679	
		4.91	365	489	477	639	496	665	
		5.24	343	460	457	612	496	665	
MGN 81GL	0, 1	4.88, 5.67, 6.14, 6.69	312	418	416	558	468	628	2350
		7.00	298	400	397	532	447	599	
MGN 86E	0, 1	2.06, 2.44, 2.93	412	552	549	736	617	827	2350
		3.40	373	500	498	668	560	751	
MGN 86EL	0, 1	3.48, 3.93	412	552	549	736	617	827	2350
		4.48	401	538	535	717	599	803	
		5.03	356	478	475	637	535	717	
MGN 87EL	0	5.03, 5.52, 5.92	412	552	549	736	617	827	2350
		6.45	382	512	511	685	573	768	
		6.90	343	460	458	614	515	691	
MGN 90	0, 1	2.06, 2.44, 2.93, 3.35	568	762	757	1015	851	1141	2350
MGN 90BL	0	2.51, 3.06, 3.48, 3.93, 4.46	596	799	795	1066	895	1199	2350
		4.79	537	720	716	960	806	1080	
MGN 91BL	0	5.04, 5.52, 5.92	609	816	812	1088	884	1185	2350
		6.45	564	756	752	1008	816	1093	
		6.86	521	698	695	931	774	1037	
MGN 724BV	00	2.52, 3.04, 3.54, 3.95	746	1000	996	1335	1120	1501	2200
		4.46	678	909	904	1211	1017	1363	
MGN 726BV	00	4.46, 4.92, 5.45, 5.76	746	1000	996	1335	1120	1501	2200
		6.08	712	954	950	1273	1069	1432	
MGN 727BV	00	6.14, 6.69	770	1032	1027	1376	1156	1549	2200
		7.00	754	1011	1005	1347	1131	1515	
		7.33	723	1218	964	1292	1084	1453	
MGN 1024CV	00	2.47, 3.03, 3.46, 4.00	937	1256	1249	1674	1406	1884	2000
		4.43	848	1136	1130	1514	1279	1714	
MGN 1026CV	00	4.03, 4.55, 4.96, 5.44	937	1256	1249	1674	1406	1884	2000
		6.00	848	1136	1130	1514	1279	1714	
MGN 1027CV	00	6.12, 6.40, 6.71	937	1256	1249	1674	1406	1884	2000
		7.04	848	1136	1130	1514	1279	1714	
MGN 1224V	00, 0	2.43, 3.00, 3.44	1147	1538	1530	2052	1721	2308	2000
		4.00	1058	1419	1411	1892	1588	2130	
MGN 1226V	00, 0	4.19, 4.55, 4.96, 5.44	1147	1538	1530	2052	1721	2308	2000
		6.00	1058	1419	1411	1892	1588	2130	
MGN 1227V	00, 0	6.26, 6.84	1147	1538	1530	2052	1721	2308	2000
		7.52	1058	1419	1411	1892	1588	2130	

CONTINUOUS DUTY MARINE GEAR RATINGS

Model	SAE Hsg.	Standard Gear Ratios	Input Rating						Max. Input Speed min ⁻¹
			900 min ⁻¹		1200 min ⁻¹		1600 min ⁻¹		
			kW	HP	kW	HP	kW	HP	
MGN 923V	—	2.00	662	888	883	1184	956	1282	1600
		2.25	662	888	883	1184	1000	1341	
		2.55	662	888	883	1184	1037	1391	
		2.90	662	888	883	1184	1074	1440	
MGN 924V	—	2.95, 3.41, 4.00	662	888	883	1184	1176	1577	1600
			1200 min ⁻¹		1600 min ⁻¹		1800 min ⁻¹		
MGN 1424V	—	2.51, 3.06, 3.48	1385	1857	1847	2477	2078	2787	1800
		4.00	1235	1656	1647	2209	1853	2485	
MGN 1426V	—	4.44, 5.00, 5.44	1385	1857	1847	2477	2078	2787	1800
		5.96	1235	1656	1647	2209	1853	2485	
MGN 1427V	—	6.14, 6.41, 6.69	1385	1857	1847	2477	2078	2787	1800
		7.00	1235	1656	1647	2209	1853	2485	
			720 min ⁻¹		1000 min ⁻¹		1500 min ⁻¹		
MGN 1523V	—	1.70, 2.02, 2.54	831	1114	1154	1548	1757	2356	1500
		3.13	752	1008	1044	1400	1590	2132	
MGN 1524V	—	2.49	831	1114	1154	1548	1316	1765	1500
		3.03	831	1114	1154	1548	1412	1893	
		3.49	831	1114	1154	1548	1471	1973	
		3.97	752	1008	1044	1400	1544	2071	
MGN 1824BV	—	1.92, 2.55, 2.92, 3.52, 4.14	1180	1582	1640	2199	1968	2639	1500
			900 min ⁻¹		1200 min ⁻¹		1600 min ⁻¹		
MGN 2024V	—	2.02, 2.51, 3.06, 3.48, 4.00	1489	1997	1985	2662	2647	3550	1600
MGN 2025V	—	4.20, 4.38, 4.57, 4.78, 5.00	1489	1997	1985	2662	2647	3550	1600
MGN 2026V	—	5.25, 5.48, 5.73, 6.00	1489	1997	1985	2662	2647	3550	1600
			720 min ⁻¹		900 min ⁻¹		1200 min ⁻¹		
MGN 2843AV	—	1.65, 2.00, 2.55, 2.97, 3.22	1647	2209	2059	2761	2294	3076	1200
MGN 2844AV	—	2.33, 2.85, 3.17, 3.69	1647	2209	2059	2761	2294	3076	1200
MGN 2845AV	—	3.23, 3.57, 3.97, 4.28	1647	2209	2059	2761	2294	3076	1200
MGN 3243V	—	2.38, 2.65, 3.09	1837	2463	2296	3079	2551	3421	1200
		3.66	1694	2272	2118	2840	2352	3154	

CONTINUOUS DUTY MARINE GEAR RATINGS

Model	SAE Hsg.	Standard Gear Ratios	Input Rating						Max. Input Speed min ⁻¹
			600 min ⁻¹		720 min ⁻¹		800 min ⁻¹		
			kW	HP	kW	HP	kW	HP	
MGN 3644V	—	2.85, 3.17, 3.55, 4.00	1588	2130	1907	2557	2113	2834	1000
MGN 5023AV	—	2.97, 3.21	2078	2787	2494	3344	2771	3716	1000
		3.48	1985	2662	2382	3194	2647	3550	
MGN 5024V	—	3.05, 3.47, 4.00	2078	2787	2494	3344	2771	3716	1000
		4.48	1910	2561	2292	3074	2547	3416	
MGN 6324V	—	2.66, 3.03, 3.35, 4.37	2758	3698	3309	4437	3676	4930	1000
		4.55	2656	3562	3187	4274	3541	4748	
MGN 8044V	—	2.57, 3.05	3875	5196	4650	6236	4779	6409	900
		3.55	3750	5029	4500	6035	4779	6409	
		4.00	3618	4852	4341	5821	4779	6409	

CONTINUOUS DUTY MARINE GEAR RATINGS

Model	SAE Hsg.	Standard Gear Ratios	Input Rating						Max. Input Speed min ⁻¹
			1600 min ⁻¹		1800 min ⁻¹		2100 min ⁻¹		
			kW	HP	kW	HP	kW	HP	
MGN 123	1, 2, 3	1.52, 1.97, 2.57	200	268	225	302	262	351	3300
		3.08	188	252	211	283	246	330	
		3.46	177	237	199	267	233	312	
			1200 min ⁻¹		1600 min ⁻¹		1800 min ⁻¹		
MGN 133-A	0, 1, 2	1.65, 2.00, 2.48	240	322	320	429	359	481	2800
		2.92	229	307	305	409	343	460	
		3.25	200	268	267	358	300	402	
		3.43	186	249	248	332	279	374	
MGN 153	0, 1, 2	1.65, 2.00, 2.48, 2.92, 3.25, 3.43	229	307	306	410	344	461	2800
MGN 173	0, 1	1.53, 1.97, 2.44, 2.93	255	342	340	456	383	514	2600
		3.54	229	307	306	410	344	461	
MGN 253	1	1.11	511	685	614	823	661	886	2600
		1.49, 1.72	470	630	577	774	625	838	
		1.97	446	598	533	715	577	774	
		2.54	362	485	459	616	497	666	
		2.92	317	425	412	552	448	601	
MGN 293B	0,1	1.07, 1.50, 1.66 ,1.74, 1.97, 2.04	552	740	670	898	728	976	2500
		2.45	514	689	670	898	728	976	
		2.82	443	594	591	792	664	890	
MGN 294B	0.1	2.46, 3.03	580	777	710	951	771	1033	2500
		3.48	549	736	670	898	729	977	
		3.93	500	670	611	819	664	890	
		4.43	466	624	570	764	619	829	

CONTINUOUS DUTY MARINE GEAR RATINGS

Model	SAE Hsg.	Standard Gear Ratios	Input Rating						Max. Input Speed min ⁻¹
			1200 min ⁻¹		1600 min ⁻¹		1800 min ⁻¹		
			kW	HP	kW	HP	kW	HP	
MGN 335E	0	3.30, 4.11	477	640	637	854	716	960	2300
		4.68, 4.72	468	627	623	835	701	940	
		5.22	400	536	534	716	600	805	
		6.05	355	476	473	634	532	713	
MGN 353B	0	1.15, 1.33, 1.53, 1.73	658	882	827	1108	898	1203	2500
		2.03	658	882	810	1085	879	1178	
		2.32	658	882	805	1079	874	1171	
		2.44	638	855	780	1045	847	1135	
		2.72	591	792	723	969	785	1052	
MGN 433E	00, 0	1.18	819	1098	1092	1464	1229	1648	2500
		1.53, 1.71, 2.06	861	1155	1149	1541	1292	1733	
MGN 433G	0, 1	1.18, 1.53, 1.73, 2.06	898	1204	1198	1607	1348	1808	2500
		2.52	816	1094	1087	1458	1223	1640	
MGN 453A	00, 0	1.18, 1.54, 2.06, 2.52, 2.92	884	1185	1179	1581	1327	1780	2100
		3.25	801	1074	1067	1431	1207	1619	
		3.43	602	807	803	1077	904	1212	
MGN 493A	00, 0	1.16, 1.52	1251	1678	1668	2237	1877	2517	2100
		2.08, 2.47, 2.96	1174	1574	1513	2029	1762	2363	
MGN 532	0	1.45, 1.57, 1.70, 1.84, 2.00	1500	2012	2000	2682	2250	3017	2100
		2.36	1412	1893	1883	2525	2118	2840	
		2.50	1324	1775	1765	2367	1986	2663	
MGN 533	—	2.60, 2.79	1500	2012	2000	2682	2250	3017	2100
		3.00, 3.24	1412	1893	1883	2525	2118	2840	
		3.50	1324	1775	1765	2367	1986	2663	
MGN 632	—	1.49, 1.68, 1.83, 2.00, 2.29, 2.52	1942	2604	2589	3472	2912	3905	2000
MGN 633	—	2.64, 2.85, 3.09, 3.37, 3.52	1942	2604	2589	3472	2912	3905	2000
MGN 732	—	1.46, 1.68, 1.84, 2.03, 2.25, 2.50	2427	3255	3236	4339	3640	4881	2000
MGN 733	—	2.66, 2.90, 3.03, 3.33, 3.50	2427	3255	3236	4339	3640	4881	2000
MGN 832	—	1.45, 1.72, 1.88, 2.06, 2.27, 2.50	3106	4165	4142	5554	4659	6248	1800

CONTINUOUS DUTY MARINE GEAR RATINGS

Model	SAE Hsg.	Standard Gear Ratios	Input Rating						Max. Input Speed min ⁻¹
			1600 min ⁻¹		1800 min ⁻¹		2100 min ⁻¹		
			kW	HP	kW	HP	kW	HP	
MGNV 123	3	1.53, 2.03, 2.46	217	291	244	327	285	382	3300
		2.96	195	261	220	295	256	343	
			1200 min ⁻¹		1600 min ⁻¹		1800 min ⁻¹		
MGNV 133	1	1.57, 1.97, 2.48, 2.96	218	292	291	390	327	438	2800
MGNV 172E	0, 1	1.56, 1.78, 2.03, 2.37	256	343	420	563	456	611	2600
MGNV 172EC	—	1.56, 1.78	256	343	424	569	476	638	2600
		2.03	256	343	424	569	464	622	
		2.37	256	343	420	563	456	611	
MGNV 253	1	1.51, 1.73	512	687	640	858	696	933	2500
		2.07	433	581	529	709	575	771	
		2.44	378	507	463	621	502	673	
		2.95	317	425	413	554	449	602	
MGNV 253C	—	1.51, 1.73	463	621	562	754	610	818	2500
		2.07	427	573	518	695	562	754	
		2.44	379	508	456	611	497	666	
		2.95	317	425	412	552	448	601	
MGNV 293B	0,1	1.29, 1.51, 1.74	579	776	706	946	767	1028	2500
		2.03, 2.48	495	663	604	809	656	879	
		2.8	488	654	595	797	647	867	
MGNV 293BC	—	1.29, 1.51, 1.74	579	776	706	946	767	1028	2500
		2.03, 2.48	495	663	604	809	656	879	
		2.80	488	654	595	797	647	867	

CONTINUOUS DUTY MARINE GEAR RATINGS

Model	SAE Hsg.	Standard Gear Ratios	Input Rating						Max. Input Speed min ⁻¹
			1200 min ⁻¹		1600 min ⁻¹		1800 min ⁻¹		
			kW	HP	kW	HP	kW	HP	
MGNV 353B	0	1.55, 1.72, 2.09	694	930	918	1230	1007	1349	2500
		2.42	633	848	774	1037	840	1126	
		2.73	563	754	688	922	747	1001	
MGNV 353BC	—	1.55	663	888	809	1084	878	1177	2500
		1.72	641	859	782	1048	850	1139	
		2.09	611	819	745	998	810	1085	
		2.42	587	787	716	959	778	1043	
		2.73	532	713	649	870	705	945	
MGNV 453A	00, 0	1.48, 1.97, 2.50, 2.79	905	1214	1207	1619	1357	1820	2100
MGNV 453AC	—	2.93	868	1164	1157	1552	1301	1745	
MGNV 493	00, 0	1.49, 2.08	1240	1663	1652	2215	1859	2493	2100
MGNV 493C	—	2.44	1190	1596	1586	2127	1784	2392	2100
		2.93	1174	1574	1566	2100	1762	2363	

QUICKSHIFT TYPE MARINE GEAR CONTINUOUS DUTY MARINE GEAR RATINGS

Model	SAE Hsg.	Standard Gear Ratios	Input Rating						Max. Input Speed min ⁻¹
			1800 min ⁻¹		2100 min ⁻¹		2400 min ⁻¹		
			kW	HP	kW	HP	kW	HP	
MGX 193	1	0.93, 1.02, 1.12, 1.50, 1.74, 2.04	358	480	410	550	460	617	3000
		2.54	358	480	410	550	460	617	
		3.00	328	440	372	500	418	561	
			1200 min ⁻¹		1600 min ⁻¹		1800 min ⁻¹		
MGX 202	1, 0	1.00, 1.28, 1.4, 1.73, 2.04	308	413	410	550	445	597	2800
		2.57	308	413	410	550	445	597	
		2.90	282	378	376	504	408	547	
MGX 242	1, 0	1.20, 1.33, 1.48, 1.75, 1.96	391	524	522	700	552	740	2500
		2.50	331	444	442	593	485	650	
MGX 281	1, 0	1.20, 1.33, 1.48, 1.75, 1.96	362	485	565	758	612	821	2500
MGX 293B	0,1	1.07, 1.50, 1.66, 1.74, 1.97, 2.04	552	740	670	898	728	976	2500
		2.45	514	689	670	898	728	976	
		2.82	443	594	591	792	664	890	
MGX 294B	0.1	2.46, 3.03	580	777	710	951	771	1033	2500
		3.48	549	736	670	898	729	977	
		3.93	500	670	611	819	664	890	
		4.43	466	624	570	764	619	829	
MGX 353B	0	1.15, 1.33, 1.53, 1.73	658	882	827	1108	898	1203	2500
		2.03	658	882	810	1085	879	1178	
		2.32	658	882	805	1079	874	1171	
		2.44	638	855	780	1045	847	1135	
		2.72	591	792	723	969	785	1052	

QUICKSHIFT TYPE MARINE GEAR CONTINUOUS DUTY MARINE GEAR RATINGS

Model	SAE Hsg.	Standard Gear Ratios	Input Rating						Max. Input Speed min ⁻¹
			1800 min ⁻¹		2100 min ⁻¹		2400 min ⁻¹		
			kW	HP	kW	HP	kW	HP	
MGXV 192	1	1.03, 1.20, 1.48, 1.75, 1.92, 2.04	347	465	387	519	435	583	3000
		2.50	321	430	365	490	411	551	
			1200 min ⁻¹		1600 min ⁻¹		1800 min ⁻¹		
MGXV 202	1, 0	1.10, 1.25, 1.53, 1.79, 2.00,	308	413	410	550	445	597	2500
		2.52	308	413	410	550	445	597	
MGXV 242	1, 0	1.26, 1.48, 1.75, 1.96	391	524	522	700	552	740	2500
		2.50	331	444	442	593	485	650	
MGXV281	1, 0	1.26, 1.48, 1.75, 1.96	362	485	565	758	612	821	2500
MGXV 293B	0, 1	1.29, 1.51, 1.74	579	776	706	946	767	1028	2500
		2.03, 2.48	495	663	604	809	656	879	
		2.80	488	654	595	797	647	867	
MGXV 293BC	—	1.29, 1.51, 1.74	579	776	706	946	767	1028	2500
		2.03, 2.48	495	663	604	809	656	879	
		2.80	488	654	595	797	647	867	
MGXV 353B	0	1.55, 1.72, 2.09	694	930	918	1230	1007	1349	2500
		2.42	633	848	774	1037	840	1126	
		2.73	563	754	688	922	747	1001	
MGXV353BC	—	1.55	663	888	809	1084	878	1177	2500
		1.72	641	859	782	1048	850	1139	
		2.09	611	819	745	998	810	1085	
		2.42	587	787	716	959	778	1043	
		2.73	532	713	649	870	705	945	

FOR LOW SPEED DIESEL ENGINE CONTINUOUS DUTY MARINE GEAR RATINGS

Model	SAE Hsg.	Standard Gear Ratios	Input Rating						Max. Input Speed min ⁻¹
			300 min ⁻¹		400 min ⁻¹		500 min ⁻¹		
			kW	HP	kW	HP	kW	HP	
MGN 1801AV	—	1.34, 1.82	1119	1500	1492	2000	1865	2500	500
		1.91	1095	1468	1460	1957	1825	2446	
		2.00	1080	1448	1440	1930	1800	2413	
		2.10	1065	1428	1420	1904	1775	2379	
MGN 1803V	—	1.91, 2.00, 2.20	1119	1000	1492	2100	1865	2250	500
		2.31	1065	1428	1420	1904	1775	2379	
MGN 4022V	—	1.63, 2.09, 2.39	1215	2226	1620	2280	2025	2443	500
		2.50	1140	1528	1520	2038	1900	2547	
			200 min ⁻¹		300 min ⁻¹		400 min ⁻¹		
MGN 2501AV	—	1.33, 1.69, 2.09	1012	1424	1518	2781	2024	2849	400
		2.18	1000	1341	1500	2011	2000	2681	
		2.28	940	1260	1410	1890	1880	2520	
MGN 5622V	—	1.67, 1.95, 2.20	1130	1591	1695	3105	2260	3181	400
		2.29	1082	1450	1623	2176	2164	2901	
		2.39	1032	1383	1548	2075	2064	2767	
		2.50	980	1314	1470	1971	1960	2627	
MGN 3501BV	—	1.25, 1.66, 2.00	1460	2055	2190	4012	2920	4110	400
		2.08	1426	1912	2139	2867	2852	3823	
		2.16	1370	1836	2055	2755	2740	3673	
		2.25	1312	1759	1968	2638	2624	3517	
MGN 8041V	—	1.23, 1.45, 1.72	1700	2393	2550	4672	3400	4786	400
		1.80	1648	2209	2472	3314	3296	4418	
		1.88	1590	2131	2385	3197	3180	4263	
		1.97	1534	2056	2301	3084	3068	4113	
MGN 10042V	—	1.20, 1.40, 1.63	2400	3217	3600	4826	4800	6434	400
		1.77	2340	3137	3510	4705	4680	6274	
		1.84	2280	3056	3420	4585	4560	6113	
		1.92	2200	2949	3300	4424	4400	5898	
		2.00	2100	2815	3150	4223	4200	5630	

CONTINUOUS DUTY MARINE GEAR RATINGS

Model	SAE Hsg.	Standard Gear Ratios	Input Rating						Max. Input Speed min ⁻¹
			1200 min ⁻¹		1600 min ⁻¹		1800 min ⁻¹		
			kW	HP	kW	HP	kW	HP	
MGN 1623Z	—	2.03, 2.41, 3.01, 3.53	1421	1906	1894	2540	2131	2858	1800
		3.66, 3.80, 3.94	1271	1704	1694	2272	1906	2556	1900
		4.23, 4.57, 4.93	1015	1361	1353	1814	1522	2041	2000
		5.33, 5.76, 6.00	829	1112	1106	1483	1244	1668	
			720 rpm		1000 rpm		1200 rpm		
MGN 1823Z	—	1.86, 2.06, 2.48, 3.00	1133	1519	1574	2111	1888	2532	1350
		3.27, 3.43	1016	1362	1412	1893	1694	2272	
MGN 1824Z	—	3.21, 3.35, 3.49, 3.64	1133	1519	1574	2111	1888	2532	1500
		3.97, 4.38	953	1278	1324	1775	1588	2130	
MGN 2026Z	—	3.91, 4.54, 5.12, 5.81	1228	1647	1706	2288	2047	2745	1600
		6.01	1191	1597	1654	2218	1985	2662	
			720 rpm		900 rpm		1200 rpm		
MGN 2843Z	—	1.19, 1.50, 1.97, 2.46	1694	2272	2118	2840	2824	3787	1300
		2.78, 2.89, 3.01	1472	1974	1840	2467	2453	3289	
		3.19	1429	1916	1787	2396	2382	3194	
MGN 2844Z	—	2.58, 2.80, 3.05, 3.33	1694	2272	2118	2840	2824	3787	1400
		3.45, 3.57	1594	2138	1992	2671	2656	3562	
		3.70	1535	2058	1919	2573	2559	3432	
MGN 2845Z	—	3.44, 3.57, 3.87, 4.20	1694	2272	2118	2840	2824	3787	1400
		4.33, 4.45	1609	2158	2012	2698	2682	3597	
		4.72	1514	2030	1893	2539	2524	3385	
			600 rpm		720 rpm		800 rpm		
MGN 3644Z	—	2.27, 2.99, 3.47, 3.76	1588	2130	1906	2556	2118	2840	1150
		3.87, 3.98	1500	2012	1800	2414	2000	2682	
		4.10, 4.22	1412	1893	1694	2272	1882	2524	
MGN 5023Z	—	1.87, 2.03, 2.51, 3.02	2294	3076	2753	3692	3059	4102	1100
		3.15, 3.29, 3.44	2051	2750	2462	3302	2735	3668	
		3.76, 3.94	1791	2402	2149	2882	2388	3202	
MGN 5024Z	—	3.32, 3.45, 3.59, 3.73	2206	2958	2647	3550	2941	3944	1200
		3.88, 4.04	2100	2817	2520	3379	2800	3755	
		4.21, 4.40	1765	2367	2118	2840	2353	3155	
MGN 6324Z	—	2.55, 3.04, 3.52, 4.15	2868	3846	3441	4614	3824	5128	1200
		4.33, 4.52	2660	3567	3192	4280	3547	4757	
		4.72	2550	3420	3060	4103	3400	4559	
MGN 8044Z	—	2.05, 2.28, 2.56, 2.99	3710	4975	4452	5970	4947	6634	1000
		3.25, 3.53	3675	4928	4410	5914	4900	6571	
		3.85, 4.03	3635	4875	4362	5849	4847	6500	

CONTINUOUS DUTY MARINE GEAR RATINGS

Model	SAE Hsg.	Standard Gear Ratios	Input Rating						Max. Input Speed min ⁻¹
			300 min ⁻¹		400 min ⁻¹		500 min ⁻¹		
			kW	HP	kW	HP	kW	HP	
MGN 3642Z	—	1.34, 1.60, 1.83	1125	1508	1500	2011	1875	2513	500
		1.91	1116	1496	1488	1995	1860	2493	
		2.00	1107	1484	1476	1979	1845	2473	
		2.10	1098	1472	1464	1962	1830	2453	
		2.20	1089	1460	1452	1946	1815	2433	
		2.31	1077	1444	1436	1925	1795	2406	
MGN 4042Z	—	1.49, 1.91, 2.39	1218	1633	1624	2177	2030	2721	500
		2.50	1179	1580	1572	2107	1965	2634	
			200 min ⁻¹		300 min ⁻¹		400 min ⁻¹		
MGN 5642Z	—	1.38, 1.80, 2.20	1130	1515	1695	2272	2260	3030	400
		2.29	1080	1448	1620	2172	2160	2895	
		2.39	1032	1383	1548	2075	2064	2767	
		2.50	980	1314	1470	1971	1960	2627	
MGN 8042Z	—	1.19, 1.64, 2.12	1700	2279	2550	3418	3400	4558	400
		2.22	1680	2252	2520	3378	3360	4504	
		2.32	1600	2145	2400	3217	3200	4290	
MGN 10042Z	—	1.19, 1.59, 2.01	2100	2815	3150	4223	4200	5630	400
		2.09	2000	2681	3000	4022	4000	5362	
		2.18	1920	2574	2880	3861	3840	5148	
		2.27	1860	2493	2790	3740	3720	4987	
		2.36	1780	2386	2670	3579	3560	4772	
		2.46	1700	2279	2550	3418	3400	4558	
MGN 12042Z	—	1.27, 1.93, 2.66	2440	3271	2660	3566	4880	6542	400
		2.76	2400	3217	3600	4826	4800	6434	
		2.86	2320	3110	3480	4665	4640	6220	

MARINE REVERSE GEAR for LOW SPEED ENGINE CONTINUOUS DUTY

Model	SAE Hsg.	Standard Gear Ratios	Input Rating						Max. Input Speed min ⁻¹
			300 min ⁻¹		400 min ⁻¹		500 min ⁻¹		
			kW	HP	kW	HP	kW	HP	
MN 630	—	—	473	634	630	845	662	887	500
MN 730	—	—	630	845	840	1126	883	1184	500
			200 min ⁻¹		300 min ⁻¹		400 min ⁻¹		
MN 830	—	—	588	788	883	1184	1103	1479	400
MN 930	—	—	758	1016	1136	1523	1324	1775	400
MN 1030	—	—	1049	1406	1567	2101	1692	2268	400
MN 1130	—	—	1421	1905	2059	2760	2059	2760	400
			100 min ⁻¹		200 min ⁻¹		300 min ⁻¹		
MN 1230	—	—	883	1184	1765	2366	2354	3156	300
MN 1430	—	—	1147	1538	2295	3076	2795	3747	300
MN 1630	—	—	1545	2071	3089	4141	3310	4437	300

MARINE HYDRAULIC CLUTCH for LOW SPEED ENGINE CONTINUOUS DUTY

Model	SAE Hsg.	Standard Gear Ratios	Input Rating						Max. Input Speed min ⁻¹
			200 min ⁻¹		300 min ⁻¹		400 min ⁻¹		
			kW	HP	kW	HP	kW	HP	
HLT 850	—	—	588	788	883	1184	1103	1479	400
HLT 950	—	—	758	1016	1136	1523	1324	1775	400
HLT 1050	—	—	1049	1406	1567	2101	1692	2268	400
			100 min ⁻¹		200 min ⁻¹		300 min ⁻¹		
HLT 1250	—	—	883	1184	1765	2366	2354	3156	300
HLT 1450	—	—	1118	1499	2236	2997	2648	3550	300
HLT 1650	—	—	1545	2071	3089	4141	3310	4437	300
HLT 1950	—	—	2207	2958	4119	5522	—	—	250
HLT 2150	—	—	2824	3786	5443	7296	—	—	250
HLT 2650	—	—	4707	6310	6325	8479	—	—	250

MARINE REDUCTION GEAR for WATER JET VERTICAL OFFSET CONTINUOUS DUTY

Model	SAE Hsg.	Standard Gear Ratios	Input Rating						Max. Input Speed min ⁻¹
			1200 min ⁻¹		1800 min ⁻¹		2200 min ⁻¹		
			kW	HP	kW	HP	kW	HP	
RGN 130K	—	1.11 - 2.05	951	1275	1426	1912	1743	2336	2200
RGN 140K	—	1.19 - 1.94	1245	1669	1867	2503	2282	3059	2200
RGN 160K	—	1.21 - 1.91	1639	2197	2459	3296	3005	4028	2200
RGN 180K	—	1.44 - 2.06	2184	2928	3277	4393	4005	5369	2200
RGN 200K	—	1.08 - 1.72	3569	4784	5353	7176	6542	8770	2000
			900 min ⁻¹		1200 min ⁻¹		1800 min ⁻¹		
RGN 220K	—	1.14 - 1.82	3569	4784	4758	6378	7137	9567	1800
RGN 250K	—	1.23 - 1.56	5176	6938	6901	9251	—	—	1300
RGN 280K	—	1.38 - 1.74	6908	9260	9210	12346	—	—	1200

MARINE REDUCTION GEAR for WATER JET HORIZONTAL OFFSET CONTINUOUS DUTY

Model	SAE Hsg.	Standard Gear Ratios	Input Rating						Max. Input Speed min ⁻¹
			1200 min ⁻¹		1800 min ⁻¹		2200 min ⁻¹		
			kW	HP	kW	HP	kW	HP	
RGC 200H	—	1.08 - 1.72	3569	4784	5353	7176	6543	8771	2000
			900 min ⁻¹		1200 min ⁻¹		1800 min ⁻¹		
RGC 220H	—	1.14 - 1.82	3569	4784	4758	6378	7137	9567	1800
RGC 250H	—	1.23 - 2.09	4030	5402	5373	7203	—	—	1300
RGC 280H	—	1.38 - 1.74	6908	9260	9210	12346	—	—	1200
			800 min ⁻¹						
RGC 320H	—	1.21 - 1.67	10286	13788	—	—	—	—	800
RGC 360H	—	1.16 - 1.49	13714	18384	—	—	—	—	800

Fig. A

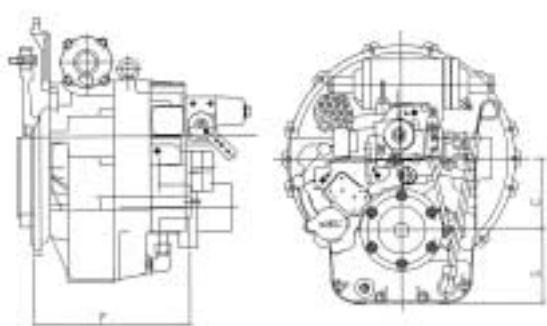
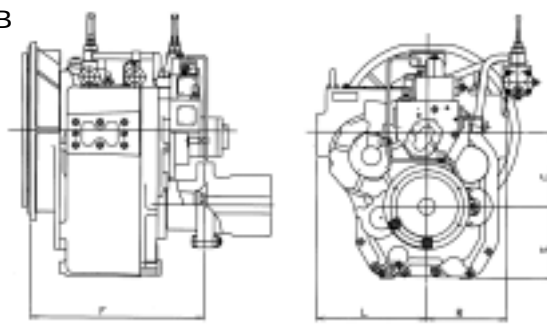


Fig. B



VERTICAL TYPE DIMENSIONAL DATA

Model	SAE Hsg.	Fig.	F: length	L:mtg. pad	R:mtg. pad	C: offset	S: sump	A:	mass kg
			mm	mm	mm	mm	mm	deg.	
MGN 10	5	A	238	—	—	92	105	—	50
MGN 10L	5	A	233	—	—	127	133	—	56
MGN 30	2	B	267.5	170	170	133.5	149.5	—	110
	3	B	270	170	170	133.5	149.5	—	100
MGN 35	2	B	290	200	170	142.5	155.5	—	129
	3	B	315	200	170	142.5	155.5	—	124
MGN 40E	2	B	322.5	245	175	150.8	161.2	—	169
	3	B	347.5	245	175	150.8	161	—	164
MGN 41L	1, 2	B	377	237	237	214	226	—	225
MGN 46E	1, 2, 3	B	351.5	243	183	179	171	—	176
MGN 46BL	1, 2, 3	B	377	237	237	214	226	—	236
MGN 47BL	1, 2, 3	B	417	301	301	275	283	—	365
MGN 56BL	0, 1	B	455	277	277	258	257	—	480
	2	B	455	277	277	258	257	—	460
MGN 56GL	0, 1	B	455	277	277	258	257	—	382
	2	B	476	277	277	258	257	—	372
MGN 57BL	0, 1	B	455	345	345	327.5	326.5	—	465
	2	B	476	345	345	327.5	326.5	—	455
MGN 58EL	0, 1	B	449	405	405	380	390	—	575
	2	B	470	405	405	380	390	—	565
MGN 76E	0, 1	B	521	330	240	227	218	—	372
MGN 76L	0	B	564	330	330	319	308	—	564
	1	B	543	330	330	319	308	—	554

- Dimensions may vary with housing adapter or output flange size.
- Dry mass is approximate and does not include companion flange.
- Specifications subject to change.

Fig. B

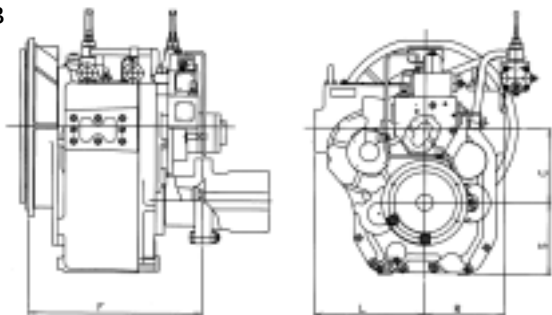
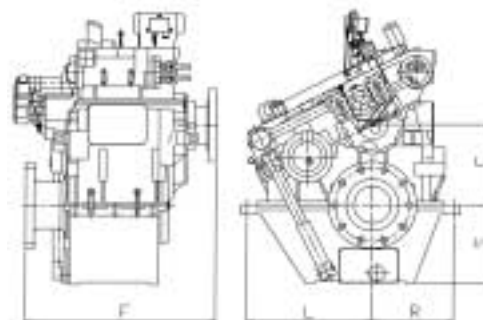


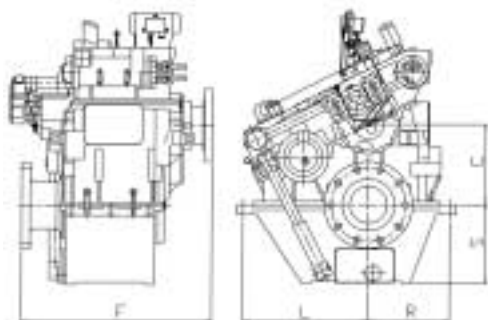
Fig. C



VERTICAL TYPE DIMENSIONAL DATA

Model	SAE Hsg.	Fig.	F:	L:mtg.	R:mtg.	C:	S:	A:	mass
			length	pad	pad	offset	sump	deg.	
			mm	mm	mm	mm	mm		kg
MGN 80B	0, 1	B	521	310	220	232	218	—	425
MGN 80E	0, 1	B	521.5	345	260	254	241	—	450
MGN 80EL	0, 1	B	544	330	330	319	308	—	700
MGN 81GL	0, 1	B	532	440	440	415	415	—	760
MGN 86E	0, 1	B	610	375	330	285	268	—	600
MGN 86EL	0, 1	B	605	360	360	358	342	—	800
MGN 87EL	0	B	660	440	440	415	417	—	983
MGN 90	0, 1	B	637	375	330	285	268	—	740
MGN 90BL	0	B	645	360	360	358	342	—	860
MGN 91BL	0	B	690	440	440	415	417	—	1220
MGN 724BV	00	B	874	450	450	330	384	—	1700
MGN 726BV	00	B	874	460	460	430	435	—	1800
MGN 727BV	00	B	874	550	550	505	535	—	2000
MGN 1024CV	00	B	995	570	570	560	560	—	2400
MGN 1026CV	00	B	995	510	510	490	490	—	2200
MGN 1027CV	00	B	995	500	500	380	412	—	2000
MGN 1224V	00	C	990	550	550	365	400	—	2300
MGN 1226V	00	C	990	575	575	490	530	—	2900
MGN 1227V	00	C	990	700	700	600	650	—	3400
MGN 923V	—	C	875	585	405	360	400	—	1650
MGN 924V	—	C	900	550	550	462	500	—	2000

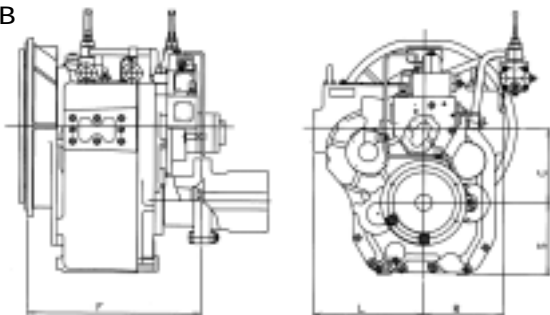
Fig. C



VERTICAL TYPE DIMENSIONAL DATA

Model	SAE Hsg.	Fig.	F:	L:mtg.	R:mtg.	C:	S:	A:	mass
			length	pad	pad	offset	sump	deg.	
			mm	mm	mm	mm	mm		kg
MGN 1424V	—	C	1050	610	460	395	460	—	2550
MGN 1426V	—	C	1165	610	610	530	530	—	3200
MGN 1427V	—	C	1165	690	690	610	620	—	3600
MGN 1523V	—	C	1000	585	485	445	500	—	2400
MGN 1524V	—	C	1060	660	660	570	610	—	3400
MGN 1824BV	—	C	1100	730	660	610	580	—	3500
MGN 2024V	—	C	1230	650	520	470	500	—	3200
MGN 2025V	—	C	1250	670	620	560	560	—	3500
MGN 2026V	—	C	1250	700	700	630	650	—	3800
MGN 2843AV	—	C	1220	745	595	550	560	—	3900
MGN 2844AV	—	C	1220	720	645	610	560	—	4750
MGN 2845AV	—	C	1220	795	745	690	650	—	5700
MGN 3243V	—	C	1220	795	745	690	650	—	5800
MGN 3644V	—	C	1270	800	800	770	800	—	6300
MGN 5023AV	—	C	1350	800	750	710	700	—	6500
MGN 5024V	—	C	1350	900	900	865	850	—	8000
MGN 6324V	—	C	1550	990	990	980	950	—	11200
MGN 8044V	—	C	1880	940	940	920	850	—	12000
MGN 1801AV	—	C	1150	800	530	492	480	—	3500
MGN 1803V	—	C	1150	800	530	492	480	—	3500
MGN 4022V	—	C	1180	800	580	535	560	—	3900
MGN 2501AV	—	C	1300	895	625	540	550	—	4400
MGN 5622V	—	C	1330	850	650	575	630	—	5000
MGN 3501BV	—	C	1540	950	680	600	630	—	6500
MGN 8041V	—	C	1720	985	700	600	600	—	7600
MGN 10042V	—	C	1900	1050	750	670	710	—	11000

Fig. B



VERTICAL TYPE DIMENSIONAL DATA

Model	SAE Hsg.	Fig.	F:	L:mtg.	R:mtg.	C:	S:	A:	mass
			length	pad	pad	offset	sump	deg.	
			mm	mm	mm	mm	mm		kg
MGN 123	1, 2	B	350	243	183	179	169	—	154
	3	B	360	243	183	179	169	—	150
MGN 133-A	0	B	415	290	210	211	195	—	220
	1	B	415	290	210	211	195	—	214
	2	B	576	290	210	211	195	—	204
MGN 153	0, 1	B	415	290	210	211	195	—	220
	2	B	436	290	210	211	195	—	210
MGN 173	0, 1	B	521	330	240	227	218	—	270
MGN 253	1	B	541	305	305	200	200	—	315
MGN 293B	0, 1	B	592	340	340	220	235	—	460
MGN 294B	0, 1	B	602.5	360	360	310	275	—	580
MGN 335E	0	B	784	375	375	360	380	—	794
MGN 353B	0	B	698	340	340	235	235	—	560
MGN 433E	00, 0	B	745	440	440	310	315	—	720
	1	B	745	440	440	310	315	—	710
MGN 433G	0, 1	B	760	440	440	310	315	—	954
MGN 453A	00, 0	B	754	445	445	310	313	—	1030
MGN 493A	00, 0	B	936	500	500	340	335	—	1240

Fig. B

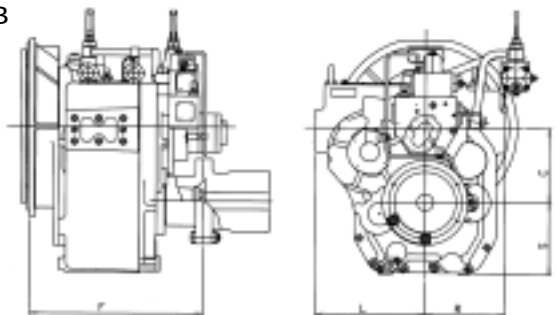
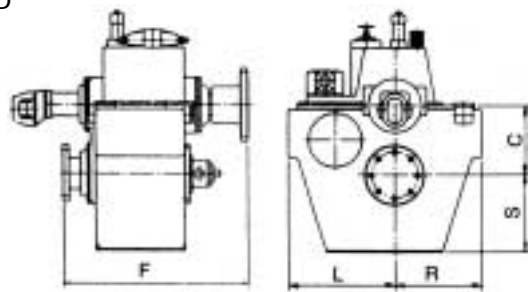


Fig. D



VERTICAL TYPE DIMENSIONAL DATA

Model	SAE Hsg.	Fig.	F:	L:mtg.	R:mtg.	C:	S:	A:	mass
			length	pad	pad	offset	sump	deg.	
			mm	mm	mm	mm	mm		kg
MGN 532	00	B	1082	550	410	380	320	—	1150
	—	D	900	550	410	380	320	—	1100
MGN 533	—	D	900	600	530	440	420	—	1450
MGN 632	—	D	960	600	520	420	400	—	1670
MGN 633	—	D	970	640	640	540	520	—	2150
MGN 732	—	D	1000	700	540	460	450	—	1800
MGN 733	—	D	1010	700	700	590	580	—	2600
MGN 832	—	D	1100	750	570	500	450	—	2630

Fig. E

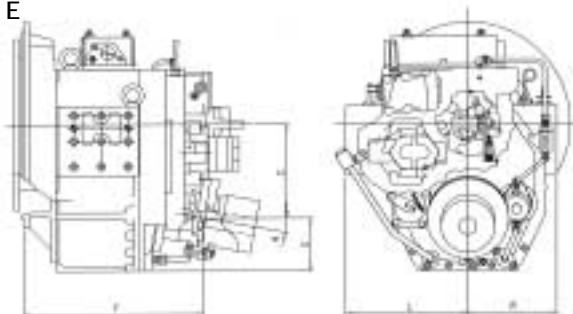
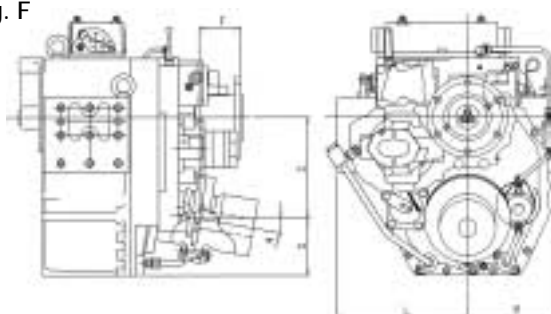


Fig. F



VERTICAL TYPE DIMENSIONAL DATA

Model	SAE Hsg.	Fig.	F:	L:mtg.	R:mtg.	C:	S:	A:	mass
			length	pad	pad	offset	sump	deg.	
			mm	mm	mm	mm	mm		kg
MGNV 123	3	E	356.1	270	220	224.9	130.1	10	180
MGNV 133	1	E	409	290	210	240	135	10	225
MGNV 172E	0, 1	E	485.5	330	240	256.5	143.5	10	300
MGNV 172EC	—	F	114	330	240	256.5	143.5	10	290
MGNV 253	1	E	538.2	305	305	276.4	163.6	10	325
MGNV 253C	—	F	160.6	305	305	276.4	163.6	10	295
MGNV 293B	0, 1	E	574	340	340	297.3	158.7	10	460
MGNV 293BC	—	F	202	340	340	297.3	158.1	10	450
MGNV 353B	0	E	653	340	340	315.9	184.1	10	565
MGNV 353BC	—	F	167	340	340	315.9	184.1	10	545
MGNV 453A	00, 0	E	746.8	445	445	381.5	241.5	10	1080
MGNV 453AC	—	F	300.2	445	445	381.5	241.5	10	910
MGNV 493A	00, 0	E	949.9	500	500	445.2	266.8	10	1295
MGNV 493AC	—	F	288.1	500	500	445.2	266.8	10	1125

Fig. B

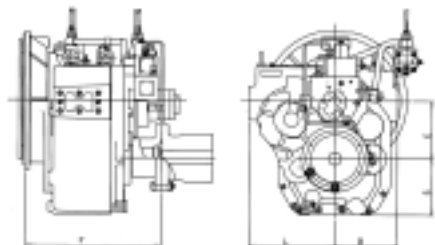


Fig. E

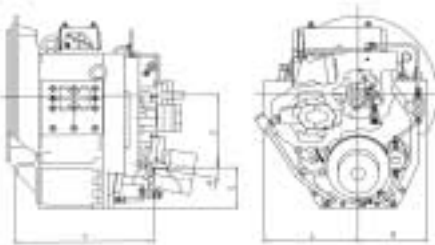
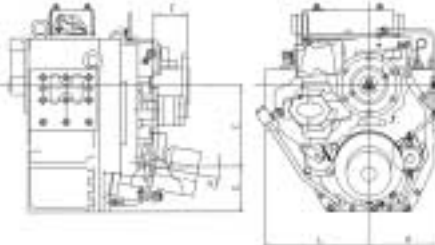


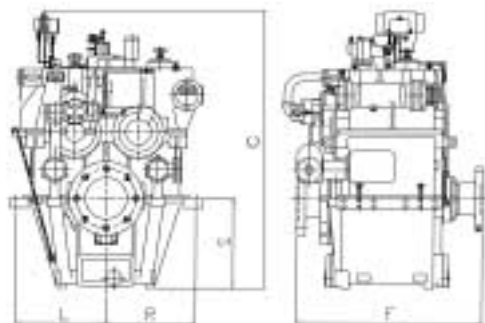
Fig. F



QUICKSHIFT MARINE GEAR VERTICAL TYPE DIMENTIONAL DATA

Model	SAE Hsg.	Fig.	F:	L:mtg.	R:mtg.	C:	S:	A:	mass
			length	pad	pad	offset	sump	deg.	
			mm	mm	mm	mm	mm		kg
MGX 193	1	B	483	279	191	190	161	—	203
MGX 202	0, 1	B	535	305	305	200	190	—	300
MGX 242	0, 1	B	535	305	305	206	179	—	325
MGX 281	0, 1	B	535	305	305	206	179	—	325
MGX 293B	0, 1	B	592	340	340	220	235	—	460
MGX 294B	0, 1	B	602.5	360	360	310	275	—	580
MGX 353B	0	B	698	340	340	235	235	—	560
MGXV 192	1	E	479	279	203	203	133	7	206
MGXV 192C	—	F	64	279	203	203	133	7	198
MGXV 202	0, 1	E	520	305	305	231	160	10	280
MGXV 202C	—	F	94	305	305	231	160	10	258
MGXV 242	0, 1	E	516	305	305	264	156	10	333
MGXV 242C	—	F	125	305	305	264	156	10	295
MGXV 281	0, 1	E	516	305	305	231	156	10	333
MGXV 281C	—	F	125	305	305	231	156	10	295
MGXV 293B	0, 1	E	574	340	340	297.3	158.7	10	460
MGXV 293BC	—	F	202	340	340	297.3	158.1	10	450
MGXV 353B	0	E	653	340	340	315.9	184.1	10	565
MGXV 353BC	—	F	167	340	340	315.9	184.1	10	545

Fig. G



IN-LINE TYPE DIMENSIONAL DATA

Model	SAE Hsg.	Fig.	F: length	L:mtg. pad	R:mtg. pad	C: offset	S: sump	A:	mass
			mm	mm	mm	mm	mm	deg.	kg
MGN 1623Z	—	G	1150	560	560	1730	560	—	3500
MGN 1823Z	—	G	1265	605	605	1650	500	—	3820
MGN 1824Z	—	G	1265	605	605	1730	500	—	4100
MGN 2026Z	—	G	1400	700	700	2100	650	—	5300
MGN 2843Z	—	G	1345	570	570	1810	560	—	4650
MGN 2844Z	—	G	1345	620	620	1930	560	—	5500
MGN 2845Z	—	G	1345	725	725	2215	710	—	6700
MGN 3644Z	—	G	1345	725	725	2215	710	—	6800
MGN 5023Z	—	G	1680	700	700	1950	630	—	7800
MGN 5024Z	—	G	1750	750	750	2020	650	—	8500
MGN 6324Z	—	G	1940	810	810	2190	700	—	13000
MGN 8044Z	—	G	2190	840	840	2250	750	—	14000
MGN 3642Z	—	G	1350	640	640	—	560	—	4400
MGN 4042Z	—	G	1380	635	635	—	560	—	5000
MGN 5642Z	—	G	1500	700	700	—	630	—	6100
MGN 8042Z	—	G	1850	775	775	—	630	—	9000
MGN 10042Z	—	G	2060	870	870	—	700	—	12000
MGN 12042Z	—	G	2380	1020	1020	—	850	—	17000

Fig. H

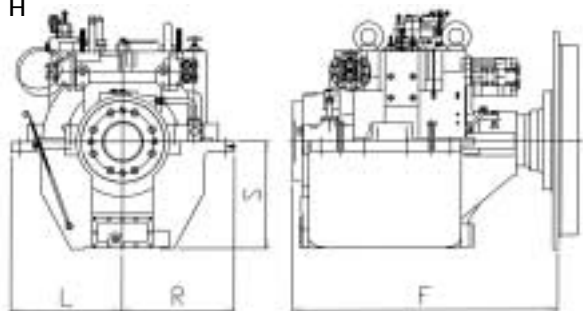
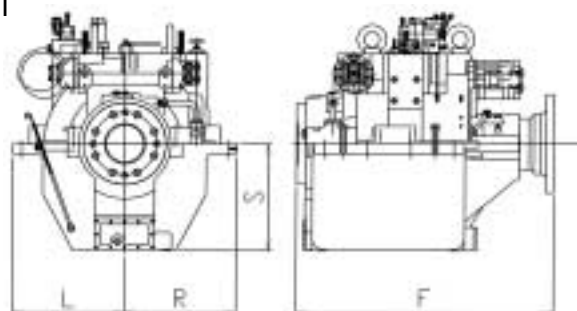


Fig. I



MARINE REVERSE GEAR DIMENSIONAL DATA

Model	SAE Hsg.	Fig.	F:	L:mtg.	R:mtg.	C:	S:	A:	mass
			length	pad	pad	offset	sump	deg.	
			mm	mm	mm	mm	mm		kg
MN 630	—	H	950	470	470	—	470	—	1600
MN 730	—	H	1015	490	490	—	500	—	1850
MN 830	—	H	1150	530	530	—	560	—	2340
MN 930	—	H	1300	580	580	—	600	—	3100
MN 1030	—	H	1540	650	650	—	630	—	4300
MN 1130	—	H	1600	700	700	—	670	—	5300
MN 1230	—	H	1760	750	750	—	700	—	6900
MN 1430	—	H	1830	800	800	—	750	—	7800
MN 1630	—	H	1922	900	900	—	850	—	10000

MARINE HYDRAULIC CLUTCH DIMENSIONAL DATA

Model	SAE Hsg.	Fig.	F:	L:mtg.	R:mtg.	C:	S:	A:	mass
			length	pad	pad	offset	sump	deg.	
			mm	mm	mm	mm	mm		kg
HLT 850	—	I	880	460	460	—	450	—	1250
HLT 950	—	I	1000	460	460	—	470	—	1450
HLT 1050	—	I	1090	510	510	—	530	—	2200
HLT 1250	—	I	1300	620	620	—	600	—	3800
HLT 1450	—	I	1540	650	650	—	650	—	4800
HLT 1650	—	I	1600	670	670	—	700	—	5100
HLT 1950	—	I	1760	700	700	—	850	—	8000
HLT 2150	—	I	1830	800	800	—	950	—	10000
HLT 2650	—	I	1922	800	800	—	1000	—	13000

Fig. J

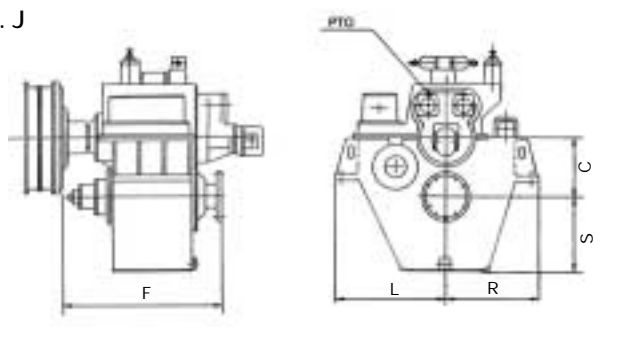
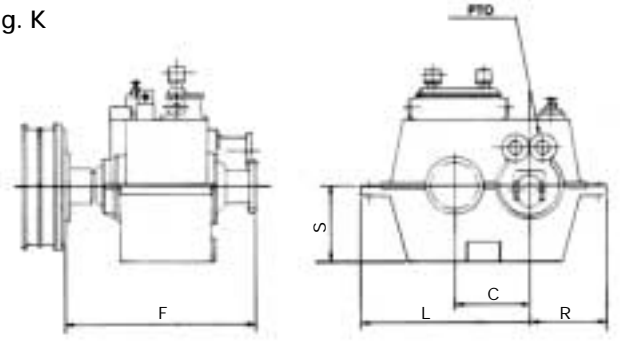


Fig. K



MARINE REDUCTION GEAR FOR WATER JET VERTICAL OFFSET DIMENTIONAL DATA

Model	SAE Hsg.	Fig.	F: length	L:mtg. pad	R:mtg. pad	C: offset	S: sump	A:	mass
			mm	mm	mm	mm	mm	deg.	
RGN 130K	—	J	800	490	430	300	300	—	650
RGN 140K	—	J	900	550	475	310	380	—	860
RGN 160K	—	J	900	625	525	335	430	—	1080
RGN 180K	—	J	900	670	550	395	405	—	1420
RGN 200K	—	J	1170	750	600	410	460	—	2000
RGN 220K	—	J	1250	850	650	490	500	—	2680
RGN 250K	—	J	1300	850	650	530	500	—	3390
RGN 280K	—	J	1400	850	700	650	600	—	4740

MARINE REDUCTION GEAR FOR WATER JET HORIZONTAL OFFSET DIMENTIONAL DATA

Model	SAE Hsg.	Fig.	F: length	L:mtg. pad	R:mtg. pad	C: offset	S: sump	A:	mass
			mm	mm	mm	mm	mm	deg.	
RGC 200H	—	K	1170	870	400	410	430	—	1800
RGC 220H	—	K	1250	1000	410	490	460	—	2430
RGC 250H	—	K	1300	1080	440	530	500	—	3090
RGC 280H	—	K	1400	1250	420	650	560	—	4340
RGC 320H	—	K	1620	1350	450	750	500	—	6300
RGC 360H	—	K	1830	1400	500	800	500	—	7500