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Warnings and Safety

MC_0800

It is essential to follow all instructions within this document to avoid potential personal injury, death, or damage to existing products in the vessel, the vessel's hull integrity, and including this product during installation or operation. Failure to follow instructions within this document will render all warranties given by Sleipner Motor as VOID.

Warnings and situations requiring extra caution are outlined in the documentation. Take extra consideration when warnings are outlined.



WARNING

Indicate a potentially hazardous situation that, if not avoided, could result in death or severe injury.



CAUTION

Indicates a potentially hazardous situation that could result in minor or moderate injury or critical damage to vessel integrity if not avoided.

MC_0020

General:

- The operator must read this document to ensure necessary familiarity with the product before use.
- It is the owner/ captain/ operators full responsibility to assess the risk of any unexpected incidents or situation on the vessel or at sea. Familiarise yourself with your vessels safety operation in conjunction with Sleipner products.
- DO NOT allow children to operate Sleipner products.



WARNING

Sleipner Motor AS is not responsible for damage or injury caused by the misuse of our products.

For the operation of Sleipner thrusters systems:

MC_0418

- When not in use or when leaving the boat, turn the control device off.
- When leaving the boat, always turn off the main power switch for the thruster.
- Never run the thruster while out of water.
- Stop running the thruster and turn it off if the thruster stops giving thrust while running. Running the thruster for more than a few seconds without resistance from the propeller can cause severe damage to the thruster drive components.
- · The thruster will not run if two conflicting directions are input in two control panels simultaneously.
- If you notice any faults with the thruster, switch it off to avoid further damage.
- The purpose of the thruster is to manoeuvre or dock the vessel. Forward or reverse speed must not exceed 4 knots when operated.



WARNING

Never use thrusters close to objects, persons, or animals in the water. The thruster will draw objects into the tunnel, as well as the rotating propellers. Contact with the rotating propellers will cause severe injuries and damage to the thruster.

Turn off the main power switch before touching any part of the thruster. An incidental start while touching moving parts can cause serious injuries.

Always plan on how to avoid damage to persons or other objects if the thruster stops giving thrust for while manoeuvring.

For the operation of hydraulic motor thrusters

MC_0421

• If the performance of the thruster is reduced check the hydraulic system or check the tunnel for marine growth.

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User Operation

! Please refer to the graphic for special considerations relating to your model!

The following is an operation guide to ALL Sleipner control products. Ensure to familiarise yourself with the functionality and operation of your specific control device.



WARNING

Take time to practice operation in open water to become familiar with the thruster and to avoid damages to your boat or people.

General operation

- 1. Turn on the main power switch for the bow thruster. (NB: Always turn off the main power switch when not on-board.)
- Turn on the control panel by pushing the/ both "ON" button(s) on the original Sleipner panel simultaneously.
 Turn off the control panel by pushing the "OFF" button
- 3. To turn the bow/ stern in the desired direction:





Button control panels

For button control, push the button in the corresponding direction you wish the bow/ stern to move.



Joystick control panels

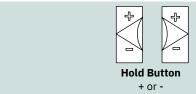
For joystick control, move the joystick in the direction you wish the bow/ stern to move.

(NB: If equipped for proportional control move the joystick equivalent to the amount of thrust you intend to receive.)

For other controls like foot switches or toggle-switches please refer to that products user manual for detailed operational use.

Hold functionality

If equipped with 'hold' functionality push the button in the corresponding direction you wish the thrusters to engage a holding pattern:



Will increase or decrease the holding force output of the thrusters

Operating a combined bow and stern thruster

The combination of a bow and stern thruster offers total manoeuvrability to move the bow and the stern separately from each other or in unison. This enables the boat to move sideways in both directions or turn the boat around a 360° axis while staying stationary.

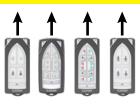
Remote controls



CAUTION

The remote control design reflects the vessel for orientation guidance. Be aware of the remote control orientation during operation.









Remote control orientated

Drift

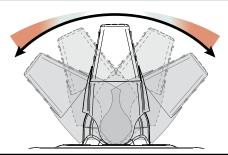
Depending on the sideways speed of the bow/ stern, you must disengage the control device shortly before the vessel is in the desired position. (NB: Be aware the boat will continue to move after disengaging the thruster control.)



CAUTION

At any significant cruising speed (+1-2 kn) the side thruster will have little effect to steer the vessel.

Proportional Control



Variable thrust power for proportional thrusters is dependent on the extent of the joystick/ throttle.

For minimal thrust slightly move the joystick/ throttle in one direction.

For maximum thrust move the joystick/ throttle to its end point.

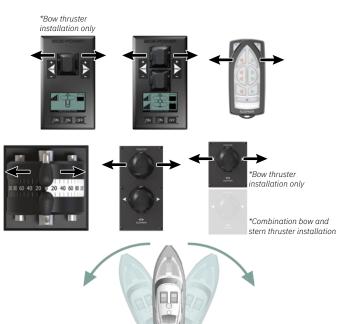
MG_0394

Proportional Control Panel

Activating the bow thruster

Using your control device/ panel press the button or move the joystick in the direction you intend to turn the boat. Ensure to use the control device/ panel designated for the bow thruster.

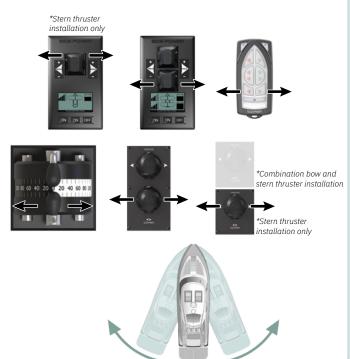
*Control panel example



Activating the stern thruster

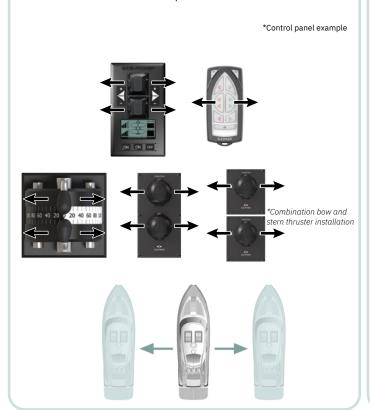
Using your control device/ panel press the button or move the joystick in the direction you intend to turn the boat. Ensure to use the control device/ panel designated for the stern thruster.

*Control panel example



Activating full sidewards maneuverer

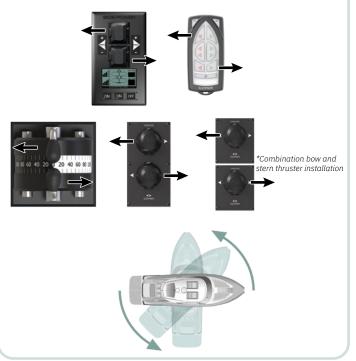
Using your control device/ panel press both buttons or move the joysticks in the same direction you intend to move the boat. Requires both a bow and stern thruster to perform.



Activating stationary spin to rotate the boat on its axis

Using your control device/ panel press both buttons or move the joysticks in opposing directions. Requires both a bow and stern thruster to perform.

*Control panel example



For additional information on your control panel or device refer to your control devices user manual

Maintenance MC_0362

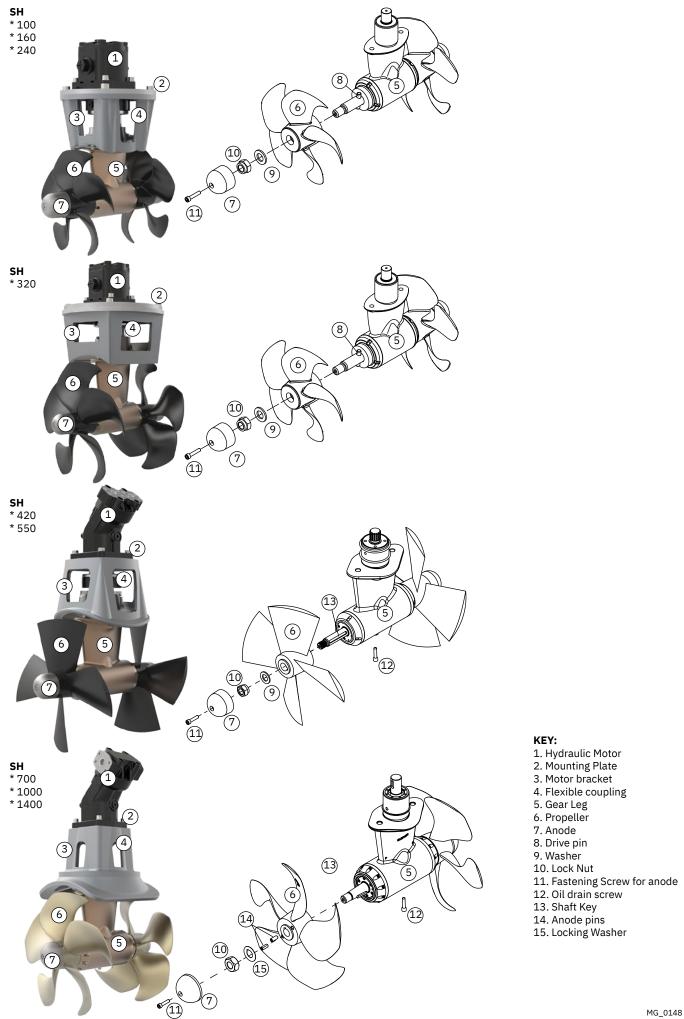
As a part of the seasonal service of your Thruster before every season, always check that:

In Water/ Out of the Water

- · The area around the thruster inside the boat is clean and dry. Ensure there are no signs of water or oil leaks.
- All electrical connections are clean and fastened firmly.
- Ensure that your batteries are in good condition.

Out of Water

- Check the propeller(s) or tunnel for any damage for example impact damage.
- The propeller(s) is fastened securely to the gear leg.
- · Check all components of thruster are fastened securely.
- Clean the tunnel and gear leg from marine growth.
- Paint the propeller and gear leg with anti-fouling before every season to keep it clean from sea growth. (NB: Never paint the anode, rubber seals or propeller shaft. Ensure paint does not enter the space between the propeller and the gear leg.)
- Change the anode before every season, or when half the anode has eroded. Always use a sealant or thread glue on the securing screw to ensure that it does not fall off.
- Ensure propellers are attached correctly. (NB: Counter rotating models use α left hand/ right hand propeller.)
- If an external oil tank is installed with your model, ensure the oil level remains the same.



Basic Troubleshooting

Before seeking assistance from the website help desk from your Sleipner dealer/distributor, please perform these tests. (NB: If you are unable to understand what to check, you must consult a Sleipner distributor.)

CHECK	SOLUTION
CHECK	SOLUTION
The motor runs, but there is no thrust	
Check that the propellers are fitted and fastened correctly and that there is no damage on the propeller shaft.	Re-fasten or replace if necessary
On counter rotating models ensure LH and RH propellers are installed correctly	Install correctly
Check that the flexible coupling between the motor and drive shaft is fitted correctly and not damaged.	Replace if necessary
Check that the gears are not damaged.	Replace if necessary
The thrusters performance is reduced	
Check that the propeller, gear house and tunnel are free from growth/ barnacles or debris and damage.	If there is growth in the tunnel, this will disturb/ block the water flow and significantly reduce performance
Check oil pressure and levels.	Fill if necessary

Advanced Control Panel Troubleshooting

MC_0352

Control panels operating on the S-link system display all faults via the control panel interface or via other warming methods.

To review any issues of your product refer to the appropriate user manual for a complete list of fault codes and troubleshooting guides.

For additional supporting documentation, we advise you to visit our website www.sleipnergroup.com



CHECK TO PERFORM	DATE
The thruster components are fastened securely.	
The area around the thruster is clean and dry. If there are signs of water or oil leaks, find the source and eliminate it	
Apply anti fouling on the the propeller and gear leg inside the truster housing	
All electrical connections are clean and fastened firmly.	
Change the anode.	
Check oil in the oil reservoir.	

Product Specifications

Product	Light Duty Thrust	Heavy Duty Thrust	Maximum Operation Time	Power	Weight
SH100	100 kg / 220 lbs	80 kg / 176 lbs	Continuous	6.9 kw / 9.3 hp	9.5kg / 21lbs
SH160	160 kg / 352 lbs	140 kg / 308 lbs	Continuous	10 kw / 13.4 hp	11.4 kg / 25.13 lbs
SH240	240 kg / 529 lbs	220 kg / 440 lbs	Continuous	14.9 kw / 20 hp	13.5 kg / 29.76 lbs
SH320	320 kg / 705 lbs	270 kg / 594 lbs	Continuous	17.4 kw / 23.3 hp	17.16 kg / 37.83 lbs
SH360	360 kg / 795 lbs	270 kg / 594 lbs	Continuous	27 kw / 37 hp	26 kg / 57.32 lbs
SH400	400 kg / 882 lbs	400 kg / 882 lbs	Continuous	30 kw / 41 hp	31 kg / 68.34 lbs
SH420	420 kg / 925 lbs	380 kg / 835 lbs	Continuous	31.8 kw / 42.6 hp	46 kg / 101.41 lbs
SH550	550 kg / 1210 lbs	500 kg / 1100 lbs	Continuous	39.9 kw / 53.5 hp	56 kg / 123.45 lbs
SH700	700 kg / 1543 lbs	700 kg / 1543 lbs	Continuous	43.4 kw / 58.2 hp	72-76 kg / 158-167 lbs
SH1000	1100 kg / 2425 lbs	1000 kg / 2205 lbs	Continuous	59.8 kw / 80.2 hp	168-182 kg / 370-401 lbs
SH1400	1400 kg / 3085 lbs	1400 kg / 3085 lbs	Continuous	80.1 kw / 107.4 hp	211 kg / 465.17 lbs

Flow and Pressure Specifications

Third bord Th				1 tow and 1					
No. Processor	Thruster	Motor							
Heim Bild 1986 1986 1987 1987 1987 1988 198									
SH 1000 Umilemismal Signal (a) Signal (b) Sign		U6							
New Part									
No.	SH 100	U8					-		
SH 160 USG-PSI A.9 4.9 2175 5.7 2900 6.3 3625 0.3 0.20		U10							
Ne			-						
Hamiles Part Pa		U6							
SH 160 U10 U56-PSI<		118							
SH 100 USG-PSI 8.2 1305 9.5 1740 10.6 2172 U11 L/min-Bar 3.4.1 8.2 3.9.3 1189 10.4 11981 11.6 1972 U14 L/min-Bar 43.1 64 49.7 86 55.6 107 L/min-Bar 43.1 64 49.7 86 55.6 107 L/min-Bar 13.1 1247 12.7 152 22.2 23.0 275° U10 L/min-Bar 23.8 17.4 27.5 22.2 30.0 275° SH 240 L/min-Bar 22.3 17.4 27.5 22.2 33.0 275° SH 240 L/min-Bar 22.3 18.3 30.2 106 42.7 207 SH 240 L/min-Bar 23.1 124 27.2 207 207 33.8 28.2 SH 240 L/min-Bar 33.1 13.2 15.6 42.7 207 SH 240									
Hamman Mathemat 34.1 82 39.3 109 44.0 136 1972 Hamman Hamman 10.4 188 10.4 1881 11.6 1972 Limin-Bar 43.1 64 49.7 86 55.6 107 Limin-Bar 19.1 217 21.4 2275 12.4 275 Limin-Bar 23.8 174 5.65 3988 6.65 3988° Hamman Limin-Bar 23.2 174 5.65 3988 6.65 3988° Hamman Machan 22.2 158 30.2 211 33.8 204 Huff Hamman 33.1 112 11.9 30.2 221 13.3 302 Huff Hamman 33.1 112 43.0 240 247 207 207 207 207 207 207 207 207 207 207 207 207 207 207 207	SH 160	U10							
Harman		1111							
Name		011							
Name		U14							
SH USG-PSI 5.05 3147 5.65 3988 5.65 3988									
Name		U8							
SH 240		1110							
SH 240		010	USG-PSI			7.23		7.93	39882)
Harman		U11							
Name	SH 240								
New York Series		U14							
Harman		U16							
Hart									
Hart		U19			-				
Hart		1144	L/min-Bar	23.8	249	24.9	274	24.9	2743)
Name		U11	USG-PSI	6.29	3611	6.58	3973	6.58	3973 ³⁾
Name		U14							
SH320 BA16									
SH320 BA16		U16							
SH USG-PS 8.93 2494 10.30 3335 11.52 4162 USG-PS USG-PS 10.83 2088 12.50 2799 13.98 3495 2494 10.30 3335 11.52 4162 2496 USG-PS 10.83 2088 12.50 2799 13.98 3495 2494 2	SH320	DA16							
Hard	0.1020	DATO							
BA19		U19							
USG-PSI 10.59 2103 11.44 2813 13.69 3509 USG-PSI 13.05 1755 15.06 2349 16.86 2929 16.89 2929 16.89 2929 16.89 2929 16.89 2929 16.89 2929 16.89 2929 16.89 2929 16.89 2929 16.89 2929 16.89 2929 16.89 2929 16.89 2929 16.89 2929 16.89 2929 16.89 2929 2		DA40							
Name		BA19		10.59	2103	11.44	2813	13.69	3509
Name		U23							
SH360 Hamber Ha									
SH360 L/min-Bar USG-PSI USG-PSI 11.97 2553 13.82 234 15.45 4250 4250 U33 L/min-Bar USG-PSI USG-PSI USG-PSI USG-PSI 14.88 2118 17.2 2828 81.89 4496° BA23 L/min-Bar 54.5 146 62.3 196 70.3 245 USG-PSI 14.4 2118 16.46 2843 18.57 3553 SH400 U19 L/min-Bar 43.5 195 50.2 260 54.2 302°) U3G-PSI 11.49 2828 13.26 3771 14.32 4380°) BA23 USG-PSI 11.49 2828 13.26 3771 14.32 4380°) BA23 USG-PSI 13.82 2364 15.96 3162 17.83 3945 U29 L/min-Bar 44.7 188 51.6 251 56.2 298°) U29 L/min-Bar 49.8 169 57.6 225 64.3 281 U29 L/min-Bar 49.8 169 57.6 225 64.3 281 U33 USG-PSI 13.16 2450 15.22 3263 16.99 4075 U33 L/min-Bar 48.4 151 55.8 202 62.4 252 U3G-PSI 11.82 2146 17.09 2871 19.13 3582 U37 USG-PSI 14.82 2146 17.09 2871 19.13 3582 U37 USG-PSI 16.41 1914 18.97 2552 21.19 3190 UAG-PSI 16.41 1914 18.97 2552 21.19 3190 BA40 Umin-Bar 62.1 132 71.8 176 80.2 220 USG-PSI 16.42 1755 18.6 2335 20.79 2929 SH 50 USG-PSI 16.12 1755 18.6 2335 20.79 2929 BA40 Umin-Bar 61 121 70.4 161 78.7 202 USG-PSI 16.12 1755 18.6 2335 20.79 2929 SH 50 USG-PSI 22.25 2204 25.68 2944 28.72 3683 USG-PSI 23.65 2059 27.32 2755 30.5		U19							
SH360		DA 10							
Harman	SH360	DATS							
BA23	3H300	U23							
SH400 UsG-PSI 14.4 2118 16.46 2843 18.57 3553		DAGG							
SH400 USG-PSI 11.49 2828 13.26 3771 14.32 4380% 14.32 14.33 14.32 14.33 14.34 15.6 25.6 25.6 298% 14.42 14.42 14.42 14.45		BAZS	USG-PSI	14.4	2118	16.46	2843	18.57	3553
SH400		U19	L/min -Bar	43.5	195	50.2	260	54.2	3028)
BA23 USG-PSI 13.82 2364 15.96 3162 17.83 3945	SH400	010							
U26		BA23							
USG-PSI 11.81 2726 13.63 3640 14.85 43219 U29 L/min-Bar 49.8 169 57.6 225 64.3 281 USG-PSI 13.16 2450 15.22 3263 16.99 4075 40.8 40.8 40.8 40.9 40.75 40.8 40.8 40.9 40.75 40.8 40.8 40.9 40.75 40.8									
L/min-Bar 49.8 169 57.6 225 64.3 281 SH 420 USG-PSI 13.16 2450 15.22 3263 16.99 4075 BA32 L/min-Bar 48.4 151 55.8 202 62.4 252 USG-PSI 12.78 2190 14.74 2929 16.49 3654 USG-PSI 14.82 2146 17.09 2871 19.13 3582 L/min-Bar 62.1 132 71.8 176 80.2 220 USG-PSI 16.41 1914 18.97 2552 21.19 3190 L/min-Bar 61 121 70.4 161 78.7 202 BA40 L/min-Bar 69.8 158 80.5 211 90 264 USG-PSI 18.44 2291 21.27 3060 23.78 3828 P42 L/min-Bar 89.5 <td< td=""><td rowspan="3"></td><td>U26</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>		U26							
SH 420 BA32		[120	L/min-Bar	49.8		57.6		64.3	
SH 420 BA32 USG-PSI 12.78 2190 14.74 2929 16.49 3654 U33 L/min-Bar 56.1 148 64.7 198 72.4 247 U37 L/min-Bar 62.1 132 71.8 176 80.2 220 USG-PSI 16.41 1914 18.97 2552 21.19 3190 L/min-Bar 61 121 70.4 161 78.7 202 USG-PSI 16.12 1755 18.6 2335 20.79 2929 L/min-Bar 69.8 158 80.5 211 90 264 USG-PSI 18.44 2291 21.27 3060 23.78 3828 P42 L/min-Bar 84.2 152 97.2 203 108.7 254 USG-PSI 23.65 2059 27.32 2755 30.54 3437 SH550 BA45 L/min-Bar 77.8 139 <td>528</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		528							
H 420 U33		BA32							
USG-PSI 14.82 2146 17.09 2871 19.13 3582 USG-PSI 16.41 1914 18.97 2552 21.19 3190 19.13 19.14 18.97 2552 21.19 3190 19.15 19.15 16.41 1914 18.97 2552 21.19 3190 19.15 19.15 19.16 19.16 19.17 19.17 19.18 19.19 19.	SH 420	1100							
BA40		U33	USG-PSI	14.82	2146	17.09	2871	19.13	3582
BA40		U37							
BA40 USG-PSI 16.12 1755 18.6 2335 20.79 2929 BA40 L/min-Bar 69.8 158 80.5 211 90 264 USG-PSI 18.44 2291 21.27 3060 23.78 3828 P42 L/min-Bar 84.2 152 97.2 203 108.7 254 USG-PSI 22.25 2204 25.68 2944 28.72 3683 G45 USG-PSI 23.65 2059 27.32 2755 30.54 3437 USG-PSI 20.56 2016 23.75 2683 26.55 3364 USG-PSI 25.10 1856 28.98 2480 32.42 3089 P52 L/min-Bar 105.1 124 121.4 166 135.7 207 USG-PSI 27.77 1798 27.77 2407 35.85 3002 L/min-Bar 104.6 106 120.8 141 135.1 176 BA60									
H550 H540 USG-PSI 18.44 2291 21.27 3060 23.78 3828 254 P42 USG-PSI 22.25 2204 25.68 2944 28.72 3683 108.7 254 254 2568 2944 28.72 3683 237 USG-PSI 22.25 2204 25.68 2944 28.72 3683 2945 190 115.6 237 237 238 2480 231 232 245 246 246 247 247 247 247 247 247		BA40							
H569 BA45 18.44 2291 21.27 3060 23.78 3828 254 254 254 254 256 204 25.68 2944 28.72 3683 264 265	SH550	BAAO	L/min-Bar	69.8	158	80.5	211	90	264
H550 Column		DA+0							
SH550 L/min-Bar USG-PSI USG-PSI 23.65 2059 27.32 2755 30.54 3437 SH550 BA45 USG-PSI 23.65 2059 27.32 2755 30.54 3437 USG-PSI 23.65 2059 27.32 2755 30.54 3437 USG-PSI 25.66 2016 23.75 2683 26.55 3364 USG-PSI 25.10 1856 28.98 2480 32.42 3089 L/min-Bar 105.1 124 121.4 166 135.7 207 USG-PSI 27.77 1798 27.77 2407 35.85 3002 L/min-Bar 104.6 106 120.8 141 135.1 176		P42							
SH550 BA45 USG-PSI 23.65 2059 27.32 2755 30.54 3437 L/min-Bar 77.8 139 89.9 185 100.5 232 USG-PSI 20.56 2016 23.75 2683 26.55 3364 U50 L/min-Bar 95 128 109.7 171 122.7 213 USG-PSI 25.10 1856 28.98 2480 32.42 3089 P52 L/min-Bar 105.1 124 121.4 166 135.7 207 USG-PSI 27.77 1798 27.77 2407 35.85 3002 BA60 L/min-Bar 104.6 106 120.8 141 135.1 176		045							
H550 BA45		G45	USG-PSI	23.65	2059	27.32	2755	30.54	3437
U50 L/min-Bar 95 128 109.7 171 122.7 213 USG-PSI 25.10 1856 28.98 2480 32.42 3089 P52 L/min-Bar 105.1 124 121.4 166 135.7 207 USG-PSI 27.77 1798 27.77 2407 35.85 3002 L/min-Bar 104.6 106 120.8 141 135.1 176		BA45							
USG-PSI 25.10 1856 28.98 2480 32.42 3089 P52 L/min-Bar 105.1 124 121.4 166 135.7 207 USG-PSI 27.77 1798 27.77 2407 35.85 3002 L/min-Bar 104.6 106 120.8 141 135.1 176		1150							
USG-PSI 27.77 1798 27.77 2407 35.85 3002 L/min-Bar 104.6 106 120.8 141 135.1 176		U50							
BA60 L/min-Bar 104.6 106 120.8 141 135.1 176		P52							
BA60									
		BA60							

			60 % 80 %			%	100 %		
Thruster model	Motor type		Flow	Pressure	Flow	Pressure	Flow	Pressure	
	BA40	L/min-Bar	57	224	66	298			
	DA40	USG-PSI	15.01	3249	17.4	4322			
	BA45	L/min-Bar	64	196	73.5	261			
SH 700	DA45	USG-PSI	17.7	2843	19.4	3785			
3 700	BA56	L/min-Bar	79	160	91	213	102	266	
	BASO	USG-PSI	20.9	2321	24	3089	27	3858	
	BA60	L/min-Bar	85.5	149	99	199	110.5	248	
	BAOU	USG-PSI	22.6	2161	26.2	2886	29.2	3597	
	070	L/min-Bar	91	220					
	G70	USG-PSI	24	3190					
	G75	L/min-Bar	98	205					
		USG-PSI	25.9	2973					
CI 1000	BA80	L/min-Bar	90.4	188	104.4	251			
SH 1000		USG-PSI	23.9	2726	27.6	3640			
	BA90	L/min-Bar	99.5	167	115	225	128.5	279	
BA90 BA110		USG-PSI	26.3	2422	30.4	3263	40	4046	
	DA 110	L/min-Bar	122	139	140.5	185	157	231	
	BATTO	USG-PSI	32.2	2016	37.1	2683	41.5	3350	
SH 1400	BA125	L/min-Bar	113	197	131	263			
		USG-PSI	29.9	2857	34.6	3814			
	BA150	L/min-Bar	139	164	160.4	219	179.4	274	
		USG-PSI	36.7	2378	42.4	3176	47.4	3973	
3H 1400	BA160	L/min-Bar	145	154	167.5	205	187	257	
		USG-PSI	38.3	2233	44.3	2973	49.4	3727	
	DA 100	L/min-Bar	163	137	188.5	183	211	228	
	BA180	USG-PSI	43	1987	49.8	2654	55.7	3306	

1) Max. thrust: 182kg 2) Max. thrust: 228kg 3) Max. thrust: 211kg 4) Max. thrust: 269kg 5) Max. thrust: 302kg 6) Max. thrust: 307kg 7) Max. thrust: 310kg 8) Max. thrust: 370kg 9) Max. thrust: 399kg

Sleipner Group Waste Disposal and Recycling Guide

Introduction:

At Sleipner Group, we prioritize sustainability and encourage the repair and re-manufacturing of products to extend their life cycles. If disposal is necessary, please follow these guidelines to recycle and manage waste responsibly, ensuring our efforts align with environmental protection efforts.

Electric Motors and Electronics:

- Disconnect from any power sources and dismantle them carefully.
- · Recycle components through certified e-waste recycling centers that can adequately handle and recover electronic materials.
- Dispose of any non-recyclable electronic parts according to local environmental regulations.

Metals:

- Collect and sort metal parts for recycling as scrap metal.
- To increase recycling efficiency, ensure that metals are clean and free from non-metal attachments.

Plastics:

- Identify recyclable plastics based on local recycling guidelines.
- · Remove any non-plastic components and clean them before recycling to improve the quality of the recycled material.

Hazardous Materials:

- · Correctly identify any hazardous substances within components, such as batteries or capacitors etc.
- Follow local regulations for the safe disposal of hazardous materials to prevent pollution and protect environmental health.

General Disposal Instructions:

- Consult local recycling programs to determine the acceptability of various materials.
- Use authorized disposal services to ensure compliance with environmental standards.

Safe Disposal Practices:

· Adhere to local laws and regulations for waste management to minimize environmental impact and ensure community safety.

This guide is designed to help reduce our products' environmental footprint through responsible end-of-life management. Please contact your local waste management supplier or our support team for more specific disposal information or further assistance.

Service and support

MC 0024

Find your local professional dealer from our certified worldwide network for expert service and support. visit our website www.sleipnergroup.com/support

Product spare parts and additional resources

MC 0024

For additional supporting documentation, we advise you to visit our website www.sleipnergroup.com and find your Sleipner product.

Warranty statement

MC_0024

- Sleipner Motor AS (The "Warrantor") warrants that the equipment (parts, materials, and embedded software of products) manufactured by the Warrantor is free from defects in workmanship and materials for purpose for which the equipment is intended and under normal use and maintenance service (the "Warranty").
- 2. This Warranty is in effect for two years (Leisure Use) or one year (Commercial and other Non-leisure Use) from the date of delivery/purchase by the end user, with the following exceptions;
 - (a) For demonstration vessels, or vessels kept on the water, the dealer is considered as the end user from 6 months after their launch of the vessel:
 - (b) The warranty period starts no later than 18 months after the first launch of the vessel.
 - Please note that the boat manufacturer and dealer must pay particular attention to correct maintenance and service both by the products manuals as well as general good practice for the location the boat is kept in the period the boat is in their care. In cases where the 6 and 18 months grace periods for boat builders and dealers are passed, it is possible to obtain a full warranty upon inspection and approval of the warrantor or such representative.
- 3. Certain parts, classified as wearable or service parts, are not covered by the warranty. A failure to follow the required maintenance and service work as described in the product manual render all warranty on parts or components directly or indirectly affected by this void. Please also note that for some parts, time is also a factor separately from actual operational hours.
- 4. This Warranty is transferable and covers the equipment for the specified warranty period.
- 5. The warranty does not apply to defects or damages caused by faulty installation or hook-up, abuse or misuse of the equipment including exposure to excessive heat, salt or fresh water spray, or water immersion except for equipment specifically designed as waterproof.
- 6. In case the equipment seems to be defective, the warranty holder (the "Claimant") must do the following to make a claim:

 (a) Contact the dealer or service centre where the equipment was purchased and make the claim. Alternatively, the Claimant can make the claim to a dealer or service centre found at www.sleipnergroup.com. The Claimant must present a detailed written statement of the nature and circumstances of the defect, to the best of the Claimant's knowledge, including product identification and serial nbr., the date and place of purchase and the name and address of the installer. Proof of purchase date should be included with the claim, to verify that the warranty period has not expired:
 - (b) Make the equipment available for troubleshooting and repair, with direct and workable access, including dismantling of furnishings or similar, if any, either at the premises of the Warrantor or an authorised service representative approved by the Warrantor. Equipment can only be returned to the Warrantor or an authorised service representative for repair following a pre-approval by the Warrantor's Help Desk and if so, with the Return Authorisation Number visible postage/shipping prepaid and at the expense of the Claimant.
- 7. Examination and handling of the warranty claim:
 - (a) If upon the Warrantor's or authorised service Representative's examination, the defect is determined to result from defective material or workmanship in the warranty period, the equipment will be repaired or replaced at the Warrantor's option without charge, and returned to the Purchaser at the Warrantor's expense. If, on the other hand, the claim is determined to result from circumstances such as described in section 4 above or a result of wear and tear exceeding that for which the equipment is intended (e.g. commercial use of equipment intended for leisure use), the costs for the troubleshooting and repair shall be borne by the Claimant;
 - (b) No refund of the purchase price will be granted to the Claimant, unless the Warrantor is unable to remedy the defect after having a reasonable number of opportunities to do so. In the event that attempts to remedy the defect have failed, the Claimant may claim a refund of the purchase price, provided that the Claimant submits a statement in writing from a professional boating equipment supplier that the installation instructions of the Installation and Operation Manual have been complied with and that the defect remains.
- 8. Warranty service shall be performed only by the Warrantor, or an authorised service representative, and any attempt to remedy the defect by anyone else shall render this warranty void.
- 9. No other warranty is given beyond those described above, implied or otherwise, including any implied warranty of merchantability, fitness for a particular purpose other than the purpose for which the equipment is intended, and any other obligations on the part of the Warrantor or its employees and representatives.
- 10. There shall be no responsibility or liability whatsoever on the part of the Warrantor or its employees and representatives based on this Warranty for injury to any person or persons, or damage to property, loss of income or profit, or any other incidental, consequential or resulting damage or cost claimed to have been incurred through the use or sale of the equipment, including any possible failure or malfunction of the equipment or damages arising from collision with other vessels or objects.
- 11. This warranty gives you specific legal rights, and you may also have other rights which vary from country to country.

Patents

MC_0024

At Sleipner we continually reinvest to develop and offer the latest technology in marine advancements. To see the many unique designs we have patented, visit our website www.sleipnergroup.com/patents

Notes	MC_00:

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Learn more about our products at www.sleipnergroup.com



SLEIPNER MOTOR AS

P.O. Box 519
N-1612 Fredrikstad
Norway
www.sleipnergroup.com
Made in Norway