



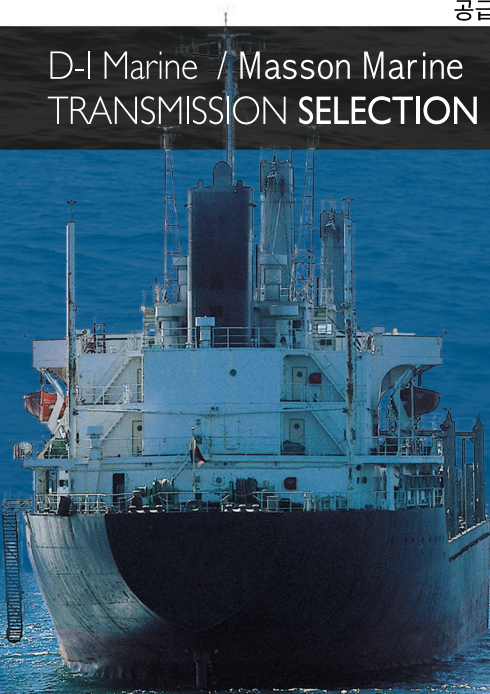
D-I
INDUSTRIAL CO., LTD.



FPP. CPP **MARINE TRANSMISSION**

공급범위: 50 ~ 5000마력

D-I Marine / Masson Marine
TRANSMISSION SELECTION GUIDE



동이공업(주)
D-I INDUSTRIAL CO., LTD.

동이공업

회사 소개	4
취급 제품	5
DMT 18A~DMT 140H	6~7
DMTP 5100~DMT 400H	8~9
DMT 100HL~DMTP 6500	10~11
DMTP 7500~DMT 550HL	12~13

Masson

Important Notes	16
Application form	17
Marine Gearboxes – standard series and ratios	18~27
Power-take-off – standard series and ratios	28
Twin input marine gearbox	29
Former range with continued manufacturing	30
Other former models – Support & correspondance	31
Controllable Pitch Propellers (CPP)	32
CPP models type	33
Former CPP models	34

회사소개

1. 주소 : 경남 진주시 상대2동 33-31번지
2. 홈페이지 : www.d-ico.kr
3. 설립일자 : 1990년 5월 14일
4. 연구소 설립 : 2005년 5월 10일
5. 제품 : 유압감속기, 조타기, PTO, 인터그랄샤프트서포트
6. 생산능력 : 6,000대 / 년
7. 부품소재사업 : 기어제작($\sim \phi 1,500$), Shaft, Hub, Clutch,
고탄성커플링(동력전달)
8. 직원(마린사업부) : 80명

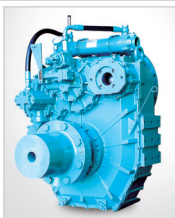
연혁

- 1990년** 회사설립
- 1994년** 두산인프라코어(주) [대우중공업] 감속기 공급
- 1997년** 해외제품 수출.
- 1998년** 유압조타기 개발 출시.
- 1999년** ISO9001 취득, 일본 히다치 니코사 PTO OEM공급
기술경쟁력 우수기업 선정(중소기업청)
ISO9001 인증
- 2001년** 벤처기업 지정
INNO-BIZ기업 선정
- 2002년** 대한민국 해군 공급
- 2003년** 수출 100만불탑 수상
- 2005년** 수출 300만불탑 수상
STX공급
- 2006년** 산업자원부장관상 수상
- 2007년** DPO 210, 310 개발
- 2008년** Flexible Coupling 개발, DIS 120, 300A
- 2009년** DMT550HL, DPO 410, DIS 100개발.
인도 ASHOCK 감속기 공급.
- 2010년** DMT280H, 550HL 일본 JC 선급 승인
- 2011년** Masson 감속기 국내공급 (FPP, CPP), DPO 160개발.





감속기



조타기



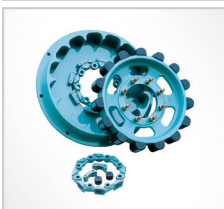
PTO



인터그 랄샤프트



이단감쇄커플링



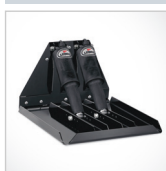
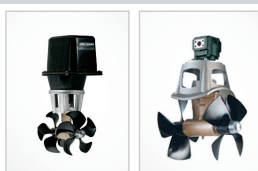
고탄성 커플링



사이드 트러스트



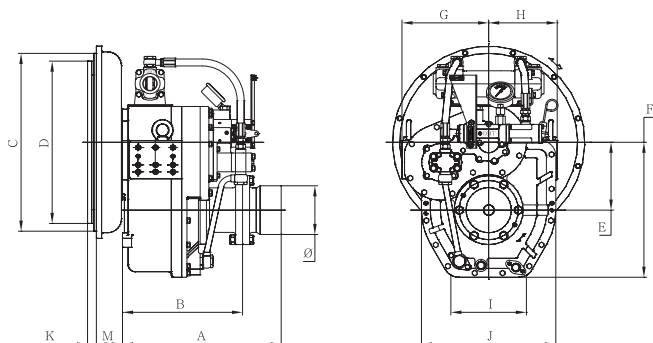
트림 탭



Marine Gearboxes - Standard series and ratios

Heavy duty ratings

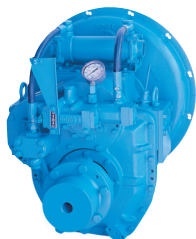
Model	Ratios	kW/rpm (hp/rpm)	Sample power capacities kW (hp)			Max rpm
DMT 18A			1800 rpm	2100 rpm	2400 rpm	
DMT 18A	1.64	0.018(0.024)	32(43)	37(50)	43(57)	3,500
DMT 18A	2.17	0.018(0.024)	32(43)	37(50)	43(57)	3,500
DMT 18A	2.52	0.018(0.024)	32(43)	37(50)	43(57)	3,500
DMT 18A	3.13	0.018(0.024)	32(43)	37(50)	43(57)	3,500
DMT 18A	3.32	0.018(0.024)	32(43)	37(50)	43(57)	3,500
DMT 25AL			1800 rpm	2100 rpm	2400 rpm	
DMT 25AL	1.64	0.031(0.042)	56(75)	66(88)	75(101)	3,500
DMT 25AL	2.07	0.031(0.042)	56(75)	66(88)	75(101)	3,500
DMT 25AL	2.52	0.031(0.042)	56(75)	66(88)	75(101)	3,500
DMT 25AL	2.96	0.031(0.042)	56(75)	66(88)	75(101)	3,500
DMT 25AL	3.32	0.031(0.042)	56(75)	66(88)	75(101)	3,500
DMT 50A			1800 rpm	2100 rpm	2400 rpm	
DMT 50A	1.61	0.057(0.077)	103(138)	120(161)	137(184)	3,000
DMT 50A	2.06	0.057(0.077)	103(138)	120(161)	137(184)	3,000
DMT 50A	2.45	0.057(0.077)	103(138)	120(161)	137(184)	3,000
DMT 50A	2.82	0.057(0.077)	103(138)	120(161)	137(184)	3,000
DMT 50A	3.12	0.057(0.077)	103(138)	120(161)	137(184)	3,000
DMT 50A	3.46	0.057(0.077)	103(138)	120(161)	137(184)	3,000
DMT 70T			1800 rpm	2100 rpm	2400 rpm	
DMT 70T	1.61	0.091(0.122)	164(220)	192(257)	218(293)	3,000
DMT 70T	2.06	0.091(0.122)	164(220)	191(257)	219(293)	3,000
DMT 70T	2.45	0.091(0.122)	164(220)	191(257)	219(293)	3,000
DMT 70T	2.82	0.091(0.122)	164(220)	191(257)	219(293)	3,000
DMT 70T	3.12	0.091(0.122)	164(220)	191(257)	219(293)	3,000
DMT 70T	3.46	0.091(0.122)	164(220)	191(257)	219(293)	3,000
DMT 100T			1800 rpm	2100 rpm	2400 rpm	
DMT 100T	1.61	0.101(0.136)	182(244)	213(285)	242(325)	3,000
DMT 100T	2.06	0.101(0.136)	182(244)	213(285)	242(325)	3,000
DMT 100T	2.45	0.101(0.136)	182(244)	213(285)	242(325)	3,000
DMT 100T	2.82	0.101(0.136)	182(244)	213(285)	242(325)	3,000
DMT 110A			1800 rpm	2100 rpm	2400 rpm	
DMT 110A	1.77	0.114(0.153)	206(276)	241(323)	275(369)	2,800
DMT 110A	2.09	0.114(0.153)	206(276)	241(323)	275(369)	2,800
DMT 110A	2.42	0.114(0.153)	206(276)	241(323)	275(369)	2,800
DMT 110A	2.82	0.114(0.153)	206(276)	241(323)	275(369)	2,800
DMT 110A	3.19	0.114(0.153)	206(276)	241(323)	275(369)	2,800
DMT 110A	3.81	0.114(0.153)	206(276)	241(323)	275(369)	2,800
DMT 140H			1800 rpm	2100 rpm	2400 rpm	
DMT 140H	1.97	0.136(0.182)	244(327)	284(381)	325(436)	2,800
DMT 140H	2.57	0.136(0.182)	244(327)	284(381)	325(436)	2,800
DMT 140H	3.03	0.136(0.182)	244(327)	284(381)	325(436)	2,800
DMT 140H	3.46	0.136(0.182)	244(327)	284(381)	325(436)	2,800



Model	Bell housing	A	B	E	F	G	H	I	J	Ø	Weight kg(lb)
DMT 18A	SAE 3, 4, 5	341	255	118.7	244	177	135	157	260	72	
DMT 25AL	SAE 3, 4, 5	341	255	118.7	244	177	135	157	260	72	
DMT 50A	SAE 1, 2, 3, 4	382	286	160.5	323.5	217	175	170	326	100	
DMT 70T	SAE 1, 2, 3, 4	436	325	160.5	323.5	228	175	170	326	110	
DMT 100T	SAE 1, 2, 3, 4	471	325	160.5	323.5	288	175	170	326	120	
DMT 110A	SAE 1, 2, 3, 4	466	335	195	388	249	197	224	386	140	
DMT 140H	SAE 1, 2, 3, 4	455	344	195	388	249	197	244	386	140	

SAE bell housing

Model	Housing	Driving ring	C	D	M	K
D18A DMT25AL	SAE #3	11.5"	409.5	352.35	35	39.6
		10"	361.9	314.25	30	53.8
	SAE #4	7.5"	361.9	241.25	30	30.2
		7.5"	314.3	241.25	24	30.2
DMT50A, DMT70T DMT100T, DMT110A DMT140H	SAE #1	14"	511.1	466.65	75	25.4
	SAE #2	11.5"	447.6	352.35	35	39.6
	SAE #3	11.5"	409.5	352.35	35	39.6
	SAE #4	10"	361.9	314.25	30	53.8



Scope of supply

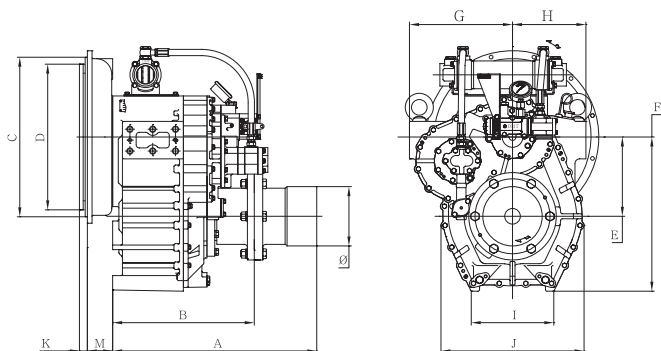
- Standard
 - Oil cooler assy
 - SAE bell housing
 - Plate type brackets
 - Propeller coupling
 - Pressure gauge
- Options
 - Trolling valve
 - Electric shift
 - Torsional coupling

Marine Gearboxes - Standard series and ratios

Heavy duty ratings

Model	Ratios	kW/rpm (hp/rpm)	Sample power capacities kW (hp)			Max rpm
DMTP 5100			1600 rpm	1800 rpm	2100 rpm	
DMTP 5100	1.47	0.175(0.234)	280(375)	315(422)	368(493)	2500
DMTP 5100	1.76	0.175(0.234)	280(375)	315(422)	368(493)	2500
DMTP 5100	1.93	0.175(0.234)	280(375)	315(422)	368(493)	2500
DMTP 5100	2.48	0.156(0.209)	250(335)	281(377)	328(440)	2500
DMTP 5100	3.08	0.156(0.209)	250(335)	281(377)	328(440)	2500
DMTP 5100	3.46	0.135(0.181)	216(290)	243(326)	284(381)	2500
DMTP 5100P			1800 rpm	2100 rpm	2300 rpm	
DMTP 5100P	1.25	0.175(0.234)	315(422)	365(490)	400(536)	2500
		0.037(0.049)	66(88)	77(103)	91(122)	2500
DMT 150H			1600 rpm	1800 rpm	2100 rpm	
DMT 150H	1.83	0.175(0.234)	280(375)	315(422)	368(493)	2,500
DMT 150H	2.09	0.175(0.234)	280(375)	315(422)	368(493)	2,500
DMT 150H	2.51	0.175(0.234)	280(375)	315(422)	368(493)	2,500
DMT 150H	3.08	0.175(0.234)	280(375)	315(422)	368(493)	2,500
DMT 150H	3.43	0.175(0.234)	280(375)	315(422)	368(493)	2,500
DMT 200H			1600 rpm	1800 rpm	2100 rpm	
DMT 200H	1.83	0.208(0.279)	356(477)	375(503)	437(586)	2500
DMT 200H	2.09	0.208(0.279)	356(477)	375(503)	437(586)	2500
DMT 200H	2.51	0.208(0.279)	356(477)	375(503)	437(586)	2500
DMT 200H	3.08	0.208(0.279)	356(477)	375(503)	437(586)	2500
DMT 200H	3.43	0.208(0.279)	356(477)	375(503)	437(586)	2500
DMT 240H			1600 rpm	1800 rpm	2100 rpm	
DMT 240H	1.50	0.228(0.306)	365(489)	410(550)	479(642)	2500
DMT 240H	1.97	0.228(0.306)	365(489)	410(550)	479(642)	2500
DMT 240H	2.44	0.228(0.306)	365(489)	410(550)	479(642)	2500
DMT 240H	2.93	0.228(0.306)	365(489)	410(550)	479(642)	2500
DMT 240H	3.40	0.228(0.306)	365(489)	410(550)	479(642)	2500
DMT 240P			1800 rpm	2100 rpm	2300 rpm	
DMT 240P	1.25(A)	0.270(0.363)	487(653)	568(762)	621(833)	2500
	1.25(B)	0.052(0.070)	94(126)	110(147)	120(161)	2500
DMT 280H			1600 rpm	1800 rpm	2100 rpm	
DMT 280H	2.06	0.311(0.417)	497(667)	559(750)	652(875)	2500
DMT 280H	2.50	0.311(0.417)	497(667)	559(750)	652(875)	2500
DMT 280H	2.92	0.311(0.417)	497(667)	559(750)	652(875)	2500
DMT 280H	3.26	0.311(0.417)	497(667)	559(750)	652(875)	2500
DMT 400H			1600 rpm	1800 rpm	2100 rpm	
DMT 400H	1.43	0.472(0.633)	755(1013)	850(1140)	992(1330)	2300
DMT 400H	1.72	0.472(0.633)	755(1013)	850(1140)	992(1330)	2300
DMT 400H	2.03	0.472(0.633)	755(1013)	850(1140)	992(1330)	2300
DMT 400H	2.46	0.420(0.563)	673(902)	757(1015)	883(1184)	2300
DMT 400H	2.75	0.369(0.494)	590(791)	664(890)	744(1038)	2300

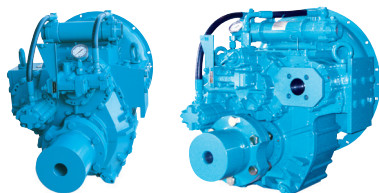
Dimensional date



Model	Bell housing	A	B	E	F	G	H	I	J	Ø	Weight kg(lb)
DMT 5100/P	SAE 1, 2, 3	531.3	391.3	195	390	270	250	206	383	150	
DMT 150H	SAE 1, 2	518	378	211.2	428	275	210	218	415	150	
DMT 200H	SAE 1, 2	590	390	211.2	428	275	210	218	415	185	
DMT240H/P	SAE 0, 1	639	439	227	458	330	240	244	447	185	
DMT 280H	SAE 0, 1	653.5	453.5	254	494	330	235	266	458	190	
DMT 400H	SAE 0, 1	705.5	505.5	235.9	450	360	360	266	436	190	

SAE bell housing

Model	Housing	Driving ring	C	D	M	K
DMTP5100	SAE #1	14"	511.1	466.65	75	25.4
	SAE #2	11.5"	447.6	352.35	35	39.6
	SAE #3	11.5"	409.5	352.35	35	39.6
DMT150H, DMT200H	SAE #1	14"	511.1	466.65	64	25.4
	SAE #2	11.5"	447.6	352.35	46	39.6
DMT240H, DMT280H	SAE #0	18"	647.7	571.5	81	15.7
	SAE #0	14"	647.7	466.65	81	25.4
	SAE #1	14"	511.1	466.65	81	25.4
DMT400H	SAE #0	18"	647.7	571.5	102	15.7
	SAE #0	14"	647.7	466.65	102	25.4
	SAE #1	14"	511.1	466.65	102	25.4



Scope of supply

• Standard

Oil cooler assy
SAE bell housing
Plate type brackets
Propeller coupling
Pressure gauge

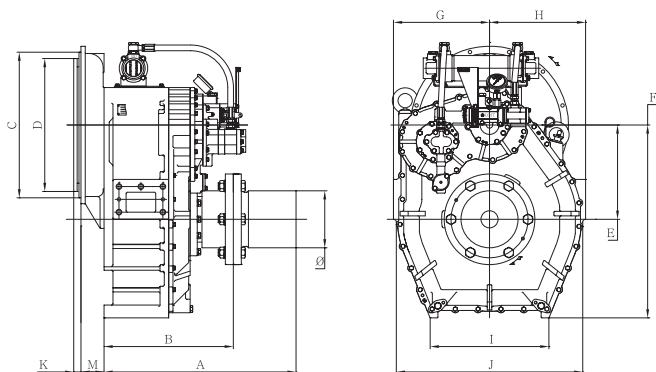
• Options

Trolling valve
Electric shift
Torsional coupling
Flexible coupling

Marine Gearboxes - Standard series and ratios

Heavy duty ratings

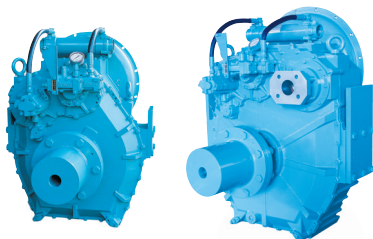
Model	Ratios	kW/rpm (hp/rpm)	Sample power capacities kW (hp)			Max rpm
DMT 100HL			1800 rpm	2100 rpm	2400 rpm	
DMT 100HL	4.07	0.101(0.136)	182(244)	196(261)	223(298)	3,000
DMT 100HL	4.50	0.101(0.136)	182(244)	196(261)	223(298)	3,000
DMT 100HL	4.95	0.101(0.136)	182(244)	196(261)	223(298)	3,000
DMT 100HL	5.29	0.091(0.121)	163(218)	189(254)	216(290)	3,000
DMT 100HL	5.95	0.079(0.106)	142(190)	165(221)	189(253)	3,000
DMT 135HL			1800 rpm	2100 rpm	2400 rpm	
DMT 135HL	4.07	0.136(0.183)	245(329)	286(384)	327(438)	2,800
DMT 135HL	4.50	0.131(0.175)	235(315)	274(367)	315(420)	2,800
DMT 135HL	4.95	0.121(0.162)	217(291)	253(339)	289(388)	2,800
DMT 170HL			1600 rpm	1800 rpm	2100 rpm	
DMT 170HL	4.04	0.175(0.234)	280(375)	315(422)	368(493)	2,500
DMT 170HL	4.48	0.175(0.234)	280(375)	315(422)	368(493)	2,500
DMT 180HL			1600 rpm	1800 rpm	2100 rpm	
DMT 180HL	5.15	0.175(0.234)	280(375)	315(422)	368(493)	2,500
DMT 180HL	5.96	0.175(0.234)	280(375)	315(422)	368(493)	2,500
DMT 200HL			1600 rpm	1800 rpm	2100 rpm	
DMT 200HL	4.04	0.208(0.279)	356(447)	375(503)	437(586)	2500
DMT 200HL	4.48	0.208(0.279)	333(447)	375(503)	437(586)	2500
DMT 260HL			1600 rpm	1800 rpm	2100 rpm	
DMT 260HL	3.53	0.269(0.361)	431(578)	485(650)	565(758)	2500
DMT 260HL	4.08	0.269(0.361)	431(578)	485(650)	565(758)	2500
DMT 260HL	4.52	0.269(0.361)	431(578)	485(650)	565(758)	2500
DMT 260HL	5.04	0.248(0.333)	422(553)	447(600)	522(700)	2500
DMTP 6500			1600 rpm	1800 rpm	2100 rpm	
DMTP 6500	5.11	0.269(0.361)	431(578)	485(650)	565(758)	2400
DMTP 6500	5.62	0.269(0.361)	431(578)	485(650)	565(758)	2400
DMTP 6500	5.91	0.269(0.361)	431(578)	485(650)	565(758)	2400
DMTP 6500	6.57	0.248(0.333)	412(533)	447(600)	522(700)	2400
DMTP 6500	6.95	0.248(0.333)	412(533)	447(600)	522(700)	2400



Model	Bell housing	A	B	E	F	G	H	I	J	Ø	Weight kg(lb)
DMT 100HL	SAE 1, 2, 3	462	351	274	563.5	284	284	370	552	134	
DMT 135HL	SAE 1, 2, 3	503.2	351.2	274	563.5	284	284	376	552	148	
DMT 170HL	SAE 1, 2	580	390	260.9	530.5	280	258	307	510	180	
DMT 180HL	SAE 1, 2	617.5	427.5	331	667	337	337	416	654	180	
DMT 200HL	SAE 1, 2	625	405	261	530.5	280	258	307	510	200	
DMT 260HL	SAE 0, 1	673.5	453.5	331	677	337	337	417	654	200	
DMTP 6500	SAE 0, 1	777	527	415	842	440	440	448	756.2	220	

SAE bell housing

Model	Housing	Driving ring	C	D	M	K
DMT100HL, DMT135HL	SAE #1	14"	511.1	466.65	80	25.4
	SAE #2	11.5"	447.6	352.35	44.5	39.6
	SAE #3	11.5"	409.5	352.35	44.5	39.6
DMT170HL, DMT180HL DMT200HL	SAE #1	14"	511.1	466.65	64	25.4
	SAE #2	11.5"	447.6	352.35	46	39.6
DMT260HL, DMTP6500	SAE #0	18"	647.7	571.5	81	15.7
	SAE #0	14"	647.7	466.65	81	25.4
	SAE #1	14"	511.1	466.65	81	25.4



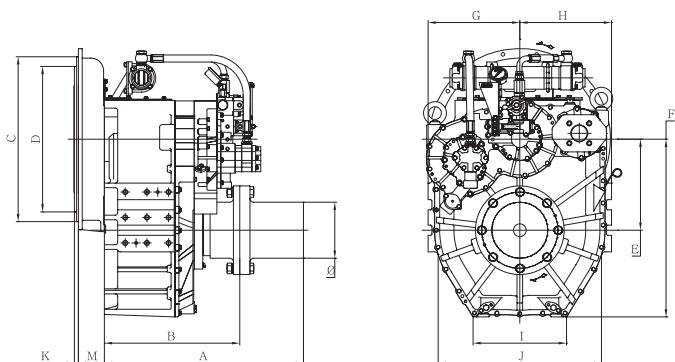
Scope of supply

- Standard
 - Oil cooler assy
 - SAE bell housing
 - Plate type brackets
 - Propeller coupling
 - Pressure gauge
- Options
 - Trolling valve
 - Electric shift
 - Torsional coupling
 - Flexible coupling

Marine Gearboxes - Standard series and ratios

Heavy duty ratings

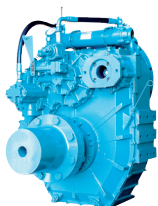
Model	Ratios	kW/rpm (hp/rpm)	Sample power capacities kW (hp)			Max rpm
DMTP 7500			1600 rpm	1800 rpm	2100 rpm	
DMTP 7500	3.56	0.311(0.417)	497(666)	559(750)	652(875)	2300
DMTP 7500	4.13	0.304(0.408)	487(653)	548(735)	639(857)	2300
DMTP 7500	4.59	0.298(0.400)	477(640)	537(720)	626(840)	2300
DMT 400HL			1400 rpm	1600 rpm	1800 rpm	
DMT 400HL	3.02	0.472(0.633)	665(887)	755(1013)	850(1140)	2300
DMT 400HL	3.28	0.472(0.633)	665(887)	755(1013)	850(1140)	2300
DMT 400HL	3.56	0.472(0.633)	665(887)	755(1013)	850(1140)	2300
DMT 400HL	4.07	0.472(0.633)	665(887)	755(1013)	850(1140)	2300
DMT 400HL	4.48	0.388(0.522)	545(731)	623(836)	700(940)	2300
DMT 400HL	4.95	0.388(0.522)	545(731)	623(836)	700(940)	2300
DMT 550HL			1400 rpm	1600 rpm	1800 rpm	
DMT 550HL	3.02	0.573(0.768)	802(1075)	916(1229)	1031(1383)	2300
DMT 550HL	3.28	0.573(0.768)	802(1075)	916(1229)	1031(1383)	2300
DMT 550HL	3.56	0.573(0.768)	802(1075)	916(1229)	1031(1383)	2300
DMT 550HL	4.07	0.573(0.768)	802(1075)	916(1229)	1031(1383)	2300
DMT 550HL	4.48	0.554(0.744)	776(1041)	887(1190)	998(1339)	2300
DMT 550HL	4.95	0.499(0.670)	669(938)	799(1072)	899(1206)	2300



Model	Bell housing	A	B	E	F	G	H	I	J	Ø	Weight kg(lb)
DMTP 7500	SAE 0, 1	683	463	319	634	330	330	435.8	616	200	
DMT 400HL	SAE 0, 1	781.6	531.6	357.5	698	360	360	368	641	220	
DMT 550HL	SAE 0, 1	801.6	551.6	357.5	698	360	360	368	641	220	

SAE bell housing

Model	Housing	Driving ring	C	D	M	K
DMTP, 7500	SAE #0	18"	647.7	571.5	81	15.7
	SAE #0	14"	647.7	466.65	81	25.4
	SAE #1	14"	511.1	466.65	81	25.4
DMT400HL, DMT550HL	SAE #0	18"	647.7	571.5	102	15.7
	SAE #0	14"	647.7	466.65	102	25.4
	SAE #1	14"	511.1	466.65	102	25.4



Scope of supply

• Standard

Oil cooler assy
SAE bell housing
Plate type brackets
Propeller coupling
Pressure gauge

• Options

Trolling valve
Electric shift
Torsional coupling
Flexible coupling



Important note

Transmission ratings

- Ratings are based on continuous operation (heavy duty), with little or no variations in engine speed and power:
 - Average engine operating hours: unlimited
 - Hull forms: displacement or semi displacement
 - Application: commercial vessels
- Ratings are shown in kW and SAE horsepower (or bhp). SAE hp equals 1,014 times metric hp.
- Ratings are valid for both engine-wise and counter-engine-wise rotations, and for reversing (for Fixed Pitch Propellers or FPP) or non reversing (for Controllable Pitch Propellers or CPP)
- Ratings apply to right-hand engines
- The given data is subject to modifications/corrections without prior notice

Specific applications

- For medium duty or any specific application, for gearboxes from 200 kW to 20 000 kW including twin input/single output units, please contact Masson Marine Engineering, who will be pleased to offer you advice and assistance to define the appropriate product

Model designation

- Our models vary within their family with the letter attached at the end of their name, as follows:
 - No letter: vertical offset
 - C: coaxial
- Then, their configuration is specified as follows:
 - NR: non reversing
 - EW: engine wise
 - CEW: counter engine wise

Survey Society Classification

- In most of the cases, the maximum shown ratings are accepted in full by major classification societies. If classification is requested, please contact Masson Marine to select the suitable gearbox.

Torsional Responsibility and Torsional Couplings

- The responsibility for ensuring torsional compatibility rests with the assembler of the driving and driven equipment. Masson Marine can not accept any liability for gearbox noise caused by vibrations or for damage to the gearbox, the flexible coupling or to other parts of the drive unit caused by any kind of vibration.

Warranty and Safe operation Notice

- The marine gearboxes and propellers are subject to the standard, agreed Masson Marine warranty conditions
- Modifications of the products are permissible only after consultation with Masson Marine
- The safe operation of Masson Marine products depends on the accordance with the technical data and proper installation, operation, maintenance and inspection as presented in our brochures and manuals
- Damage to the transmission caused by repeated or continuous emergency manoeuvres or abnormal operations is not covered by warranty

The Company

1908 Establishment of the company in Neuilly (near Paris)

1970's Integration to Pont-à-Mousson group (PAM) - transfer of the company to Saint Denis les Sens (actual plant)

1980's Integration to MAN/Renk group, as SEE (Société Européenne d'Engrenage)

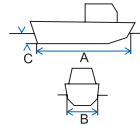


General Data

Customer ref.:
 Masson Marine ref.:
 Requested delivery time:
 Vessel operating country:
 Vessel type:
 Vessel name:
 Number of vessels:
 Number of propulsion lines (per ship):
 Construction: ☐ New ☐ Repowering
 Hull material:

Vessel Data

Requested vessel speed (knots):
 Vessel hull length at water line A (meters):
 Vessel hull beam at water line B (meters):
 Vessel draft, full load, at water line C (meters):
 Vessel displacement, light load (tons):
 Vessel displacement, full load (tons):



Engine Data

Engine brand and model:
 Engine power, each: kW@.. rpm
 Engine rotation: ☐ Clock wise ☐ Counter clock wise

Gearbox specifications

Reduction ratio:
 Offset configuration: ☐ Vertical ☐ Coaxial ☐ Other
 Installation method: ☐ Bell housing (SAE 00,0,1,2) ☐ Free standing
 Accessories: ☐ Shaft brake ☐ Elec. Control ☐ Other

Power-take-off (PTO)

PTa: 1st output:	Kw	rpm	Clutchable/live
2nd output:	Kw	rpm	Clutchable/live
3rd output:	Kw	rpm	Clutchable/live
PTI: ☐ Yes ☐ No	Ratings:	kW	rpm

Propeller specifications

Propeller type: ☐ FPP ☐ CPP ☐ Other:
☐ Free water ☐ Nozzle
 Propeller rotation: ☐ Clock wise ☐ Counter clock wise
 Propeller diameter (meters):
 Shaft length (meters):
 Stern tube length (meters):
 Lubrication: ☐ Oil ☐ Water

Classification

Classification society: ☐ BV ☐ LRS ☐ GL ☐ ABS ☐ Other:
 Type class: ☐ Type approval ☐ Full (material) classification
 Ice class: ☐ No ☐ Yes Type:

Download and submit the application form from our website www.masson.marine.com

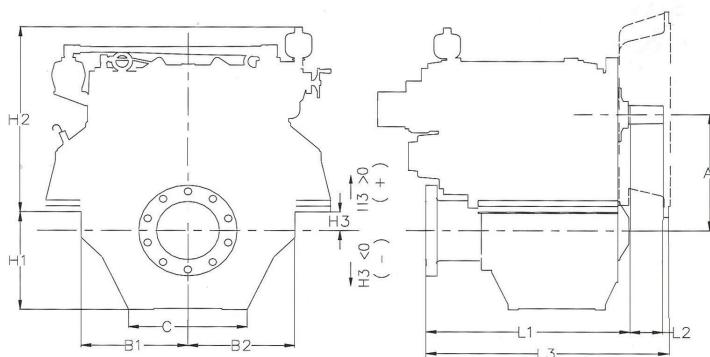
2000's Integration to ZF Marine group, as ZF Masson - Development of the Controllable Pitch Propellers

2006 Establishment of the independant company Masson Marine SAS - Joint Venture with Hangzhou Advance Gearbox Group

2007 Foundation of Masson Marine subsidiaries in Spain, Panama, Singapore
 Buy-out of CPP products and technology from France Hélices - Renou Dardel



Model	Ratios	kW/rpm (hp/rpm)	Sample power capacities kW (hp)			Max rpm
NFA			1800rpm	2100rpm	2300rpm	
NFA	1,057	0,189 (0,253)	340 (456)	397 (532)	435 (583)	2800
NFA	1,483	0,189 (0,253)	340 (456)	397 (532)	435 (583)	2800
NFA	2,000	0,189 (0,253)	340 (456)	397 (532)	435 (583)	2800
NFA	2,429	0,189 (0,253)	340 (456)	397 (532)	435 (583)	2800
NFA	3,000	0,163 (0,219)	293 (393)	342 (459)	375 (503)	2800
NFB			1800rpm	2100rpm	2300rpm	
NFB	3,040	0,188 (0,252)	338 (454)	395 (529)	432 (580)	2800
NFB	3,590	0,188 (0,252)	338 (454)	395 (529)	432 (580)	2800
NFB	4,050	0,186 (0,249)	335 (449)	391 (524)	428 (574)	2800
NFB	4,611	0,163 (0,219)	293 (393)	342 (459)	375 (503)	2800
NFB	4,940	0,152 (0,204)	274 (367)	319 (428)	350 (469)	2800
NFC			1800rpm	2100rpm	2300rpm	
NFC	4,103	0,210 (0,282)	378 (507)	441 (591)	483 (648)	2800
NFC	4,481	0,210 (0,282)	378 (507)	441 (591)	483 (648)	2800
NFC	4,920	0,210 (0,282)	378 (507)	441 (591)	483 (648)	2800
NFC	5,727	0,210 (0,282)	378 (507)	441 (591)	483 (648)	2800
NFC	6,400	0,193 (0,259)	347 (466)	405 (544)	444 (595)	2800
NFC	7,222	0,172 (0,231)	310 (415)	361 (484)	396 (531)	2800
NFC	7,706	0,162 (0,217)	292 (391)	340 (456)	373 (500)	2800
MM W3450			1200 rpm	1600 rpm	1800rpm	
MM W3450	4,077	0,361 (0,484)	433 (581)	578 (775)	650 (872)	2200
MM W3450	4,583	0,361 (0,484)	433 (581)	578 (775)	650 (872)	2200
MM W3450	4,913	0,361 (0,484)	433 (581)	578 (775)	650 (872)	2200
MM W3450	5,476	0,361 (0,484)	433 (581)	578 (775)	650 (872)	2200
NM W3450	5,850	0,361 (0,484)	433 (581)	578 (775)	650 (872)	2200
MM W3700			1200 rpm	1600 rpm	1800rpm	
MM W3700	4,077	0,388 (0,520)	466 (625)	621 (833)	698 (936)	2200
MM W3700	4,583	0,388 (0,520)	466 (625)	621 (833)	698 (936)	2200
MM W3700	4,913	0,388 (0,520)	466 (625)	621 (833)	698 (936)	2200
MM W3700	5,476	0,388 (0,520)	466 (625)	621 (833)	698 (936)	2200
MM W3700	5,850	0,388 (0,520)	466 (625)	621 (833)	698 (936)	2200



Dimensions (mm)

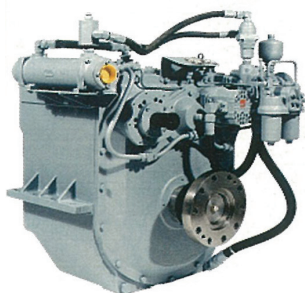
Model	Bell housing	A	B1+ B2	C	H1	H2	H3	L1	L2	L3	Weight kg(lb)
NFA	SAE 0, 1, 2	165	630	400	265	395	65	577	90	672	325 (720)
NFB	SAE 0, 1, 2	230	680	420	365	395	130	607	90	702	420 (930)
NFC	SAE 0, 1	338	760	480	470	610	130	607	90	702	620 (1370)
MM W3450	SAE 0, 1	379	804	484	390	746	0	839	90	908	1260 (2780)
MM W3700	SAE 0, 1	379	804	484	390	746	0	864	90	933	1260 (2780)



Fishing vessel "Quo Vadis "

Equipped with:

- Gearbox MM W3450



Main options for NFA, NFB, NFC:

- Various choice of brackets (H1, H2, H3 dimensions above are for bracket ref 80403663)
- For NFB and NFC only: Power-take-off solutions, retrofitable - see in this selection guide
- For NFC : compatibility with Controllable Pitch Propeller (CPP) - see in this selection guide

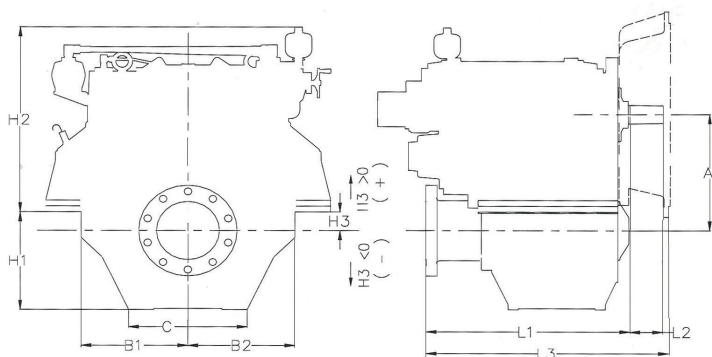
Main options for MM W3450, MM W3700:

- Classification, shaft brake, trailing pump
- Power-take-off 0, 1, 2 and 3 series, retrofitable - see in this selection guide
- Compatibility with Controllable Pitch Propeller (CPP) - see in this selection guide

Model	Ratios	kW/rpm (hp/rpm)	Sample power capacities kW (hp)			Max rpm
MM W3900			1200 rpm	1600 rpm	1800 rpm	
MM W3900	6,435	0,408 (0,547)	490 (657)	653 (876)	735 (986)	2100
MM W3900	6,820	0,389 (0,522)	466 (625)	622 (834)	699 (937)	2100
MM W3900	6,955	0,348 (0,467)	417 (559)	556 (746)	626 (839)	2100
MM W4400			1200 rpm	1600 rpm	1800 rpm	
MM W4400	3,486	0,540 (0,724)	648 (869)	864 (1159)	973 (1305)	2100
MM W4400	4,032	0,540 (0,724)	648 (869)	864 (1159)	973 (1305)	2100
MM W4400	4,448	0,540 (0,724)	648 (869)	864 (1159)	973 (1305)	2100
MM W4400	5,077	0,540 (0,724)	648 (869)	864 (1159)	973 (1305)	2100
MM W4400	5,542	0,540 (0,724)	648 (869)	864 (1159)	973 (1305)	2100
MM W4400	5,913	0,540 (0,724)	648 (869)	864 (1159)	973 (1305)	2100
MM W5200			1200 rpm	1600 rpm	1800 rpm	
MM W5200	3,964	0,611 (0,819)	733 (983)	978 (1312)	1100 (1475)	2100
MM W5200	4,345	0,611 (0,819)	733 (983)	978 (1312)	1100 (1475)	2100
MM W5200	4,962	0,611 (0,819)	733 (983)	978 (1312)	1100 (1475)	2100
MM W5200	5,458	0,611 (0,819)	733 (983)	978 (1312)	1100 (1475)	2100
MM W5200	5,955	0,611 (0,819)	733 (983)	978 (1312)	1100 (1475)	2100

Special gearboxes for lower ratios

MM W4000			1200 rpm	1600 rpm	1800 rpm	
MM W4000	1,501	0,510 (0,684)	612 (821)	816 (1094)	918 (1231)	1800
MM W4000	1,627	0,470 (0,630)	564 (756)	752 (1008)	846 (1135)	1900
MM W4000	1,695	0,451 (0,605)	541 (726)	722 (968)	812 (1089)	2000
MM W4000	1,914	0,399 (0,535)	479 (642)	638 (856)	718 (963)	2300
MM W4000	2,077	0,368 (0,493)	442 (592)	589 (790)	662 (888)	2600
MM W4000	2,257	0,339 (0,455)	407 (546)	542 (727)	610 (818)	2800
MM W4000	2,560	0,298 (0,400)	358 (480)	477 (639)	536 (719)	2800
MM W4000	2,917	0,262 (0,351)	314 (422)	419 (562)	472 (632)	2800
MM W4000	3,077	0,510 (0,684)	612 (821)	816 (1094)	918 (1231)	1800
MM W5700			1200 rpm	1600 rpm	1800 rpm	
MM W5700	1,976	0,712 (0,955)	854 (1146)	1139 (1528)	1282 (1719)	1800
MM W5700	2,370	0,712 (0,955)	854 (1146)	1139 (1528)	1282 (1719)	1800
MM W5700	2,712	0,712 (0,955)	854 (1146)	1139 (1528)	1282 (1719)	1800
MM W5700	3,133	0,712 (0,955)	854 (1146)	1139 (1528)	1282 (1719)	1800
MM W5700	3,574	0,624 (0,837)	749 (1004)	998 (1339)	1123 (1506)	1800



Dimensions (mm)

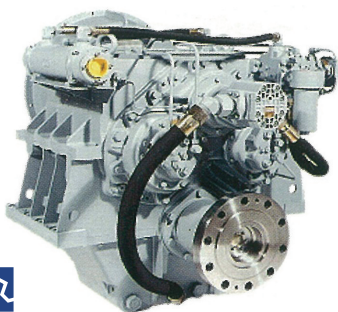
Model	Bell housing	A	B1+ B2	C	H1	H2	H3	L1	L2	L3	Weight kg(lb)
MM W3900	SAE 0, 1	400	908	800	400	705	0	524	77	637	1270 (2800)
MM W4000	SAE 0, 1	387	760	410	477	505	202	698	105	898	1180 (2600)
MM W4400	SAE 0, 1	400	908	800	400	705	0	524	77	637	1270 (2800)
MM W5200	SAE 0, 00	431	1116	550	492	742	0	855	90	1020	2000 (4410)
MM W5700	SAE 0, 00	434	853	460	535	583	226	791	130	944	1600 (3530)



Tuna boat "Progresso Futuro"
Shipyard "Mondego" (Spain)
Equipped with:
• Gearbox MM W5200

Main options:

- Classification, shaft brake, trailing pump
- Various choice of Power-take-off solutions, retrofittable - see in this selection guide
- Compatibility with Controllable Pitch Propeller (CPP) - see in this selection guide

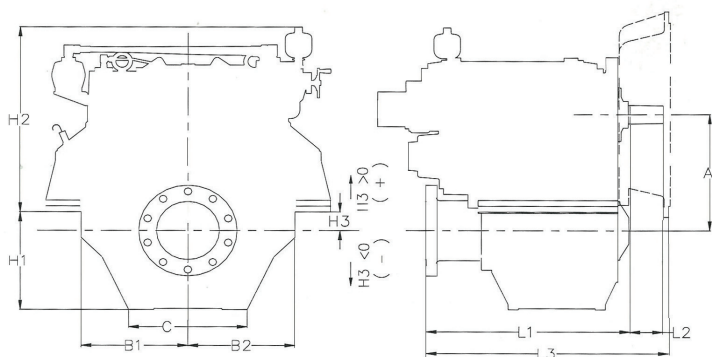


Marine Gearboxes - Standard series and ratios

Heavy duty ratings

Model	Ratios	kW/rpm (hp/rpm)	Sample power capacities kW (hp)			Max rpm
MM W6400			1200 rpm	1600 rpm	1800 rpm	
MM W6400	6,170	0,603 (0,809)	724 (970)	965 (1294)	1085 (1456)	2100
MM W6400	6,462	0,576 (0,772)	691 (927)	922 (1236)	1037 (1390)	2100
MM W6400	7,098	0,523 (0,701)	628 (842)	837 (1122)	941 (1262)	2100
MM W6400	7,446	0,497 (0,666)	596 (800)	795 (1066)	895 (1200)	2100
MM W7200			1200 rpm	1600 rpm	1800 rpm	
MM W7200	3,781	0,869 (1,165)	1043 (1398)	1390 (1865)	1564 (2098)	1850
MM W7200	3,951	0,848 (1,137)	1018 (1365)	1357 (1820)	1526 (2047)	1950
MM W7200	4,128	0,863 (1,157)	1036 (1389)	1381 (1852)	1553 (2083)	2000
MM W7200	4,314	0,811 (1,088)	973 (1305)	1298 (1740)	1460 (1958)	2100
MM W7200	4,508	0,785 (1,053)	942 (1263)	1256 (1684)	1413 (1895)	2100
MM W7200	4,925	0,733 (0,983)	880 (1180)	1173 (1573)	1319 (1769)	2100
MM W7200	5,281	0,696 (0,933)	835 (1120)	1114 (1493)	1253 (1680)	2100
MM W7200	5,633	0,654 (0,877)	785 (1052)	1046 (1403)	1177 (1579)	2100
MM W7400			1200 rpm	1600 rpm	1800 rpm	
MM W7400	4,609	0,869 (1,165)	1043 (1398)	1390 (1865)	1564 (2098)	1850
MM W7400	4,816	0,848 (1,137)	1018 (1365)	1357 (1820)	1526 (2047)	1950
MM W7400	5,032	0,863 (1,157)	1036 (1389)	1381 (1852)	1553 (2083)	2000
MM W7400	5,259	0,811 (1,088)	973 (1305)	1298 (1740)	1460 (1958)	2100
MM W7400	5,496	0,785 (1,053)	942 (1263)	1256 (1684)	1413 (1895)	2100
MM W7400	6,004	0,733 (0,983)	880 (1180)	1173 (1573)	1319 (1769)	2100
MM W7400	6,438	0,696 (0,933)	835 (1120)	1114 (1493)	1253 (1680)	2100
MM W7400	6,866	0,654 (0,877)	785 (1052)	1046 (1403)	1177 (1579)	2100
MM W7400	7,521	0,603 (0,809)	724 (970)	965 (1294)	1085 (1456)	2100
MM W7400	7,877	0,576 (0,772)	691 (927)	922 (1236)	1037 (1390)	2100
MM W7400	8,653	0,523 (0,701)	628 (842)	837 (1122)	941 (1262)	2100
MM W7400	9,077	0,497 (0,666)	596 (800)	795 (1066)	895 (1200)	2100
MM W8000			1000 rpm	1200 rpm	1600 rpm	
MM W8000	1,543	0,914 (1,226)	914 (1226)	1097 (1471)	1462 (1961)	1600
MM W8000	2,079	0,914 (1,226)	914 (1226)	1097 (1471)	1462 (1961)	1600
MM W8000	2,441	0,914 (1,226)	914 (1226)	1097 (1471)	1462 (1961)	1600
MM W8000	3,069	0,914 (1,226)	914 (1226)	1097 (1471)	1462 (1961)	1600
MM W8000	3,538	0,760 (1,019)	760 (1019)	912 (1223)	1216 (1631)	1600
MM W8000 C			1000 rpm	1200 rpm	1600 rpm	
MM W8000 C	1,988	1,411 (1,892)	1411 (1892)	- (-)	- (-)	1040
MM W8000 C	2,541	1,104 (1,480)	1104 (1480)	1325 (1777)	- (-)	1325
MM W8000 C	3,017	0,930 (1,247)	930 (1247)	1116 (1497)	- (-)	1575
MM W8000 C	3,460	0,811 (1,088)	811 (1088)	973 (1305)	1298 (1740)	1800
MM W8000 C	3,972	0,707 (0,948)	707 (948)	848 (1138)	1131 (1517)	1900
MM W8000 C	4,412	0,635 (0,852)	635 (852)	762 (1022)	1016 (1362)	1900
MM W8000 C	4,910	0,571 (0,766)	571 (766)	685 (919)	914 (1225)	1900
MM W8000 C	5,480	0,512 (0,687)	512 (687)	614 (824)	819 (1099)	1900
MM W8000 C	5,908	0,474 (0,636)	474 (636)	569 (763)	758 (1017)	1900





Dimensions (mm)

Model	Bell housing	A	B1+ B2	C	H1	H2	H3	L1	L2	L3	Weight kg(lb)
MM W6400	SAE 0, 00	500	848	470	315	900	0	807	130	960	2000 (4410)
MM W7200	SAE 0, 00	500	848	470	315	900	0	807	130	960	2000 (4410)
MM W7400	SAE 0, 00	570	990	520	403	973	0	807	130	960	2450 (5400)
MM W8000	-	357	860	530	360	960	-25	1164	130	-	1800 (3970)
MM W8000C	-	0	860	530	360	960	-25	1121	165	-	1800 (3970)

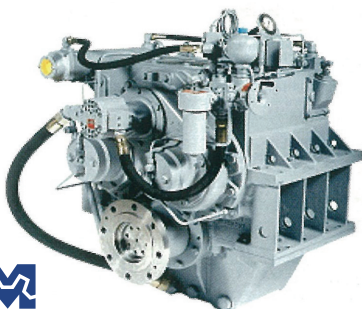


Tug boat "Epi Successo"
Shipyard "Francisco Cardama" (Spain)

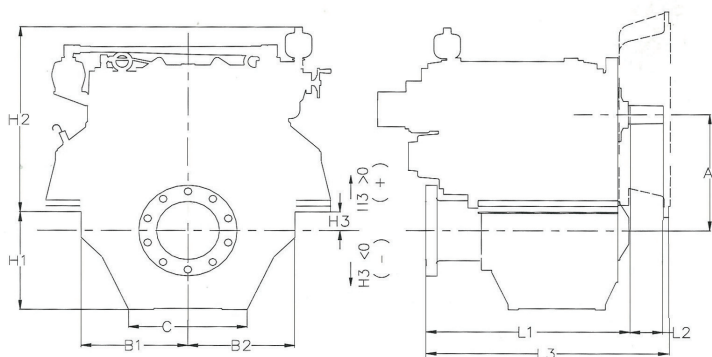
Equipped with:
• 2 Gearboxes MM W7400

Main options:

- Classification, shaft brake, trailing pump
- Various choice of Power-take-off solutions, retrofittable - see in this selection guide
- Compatibility with Controllable Pitch Propeller (CPP) - see in this selection guide



Model	Ratios	kW/rpm (hp/rpm)	Sample power capacities kW (hp)			Max rpm
MM W12000			750 rpm	1000 rpm	1200 rpm	
MM W12000	1,522	1,369 (1,836)	1027 (1377)	1369 (1836)	1643 (2203)	1250
MM W12000	2,053	1,369 (1,836)	1027 (1377)	1369 (1836)	1643 (2203)	1250
MM W12000	2,545	1,369 (1,836)	1027 (1377)	1369 (1836)	1643 (2203)	1250
MM W12000	2,742	1,369 (1,836)	1027 (1377)	1369 (1836)	1643 (2203)	1250
MM W12000	3,034	1,369 (1,836)	1027 (1377)	1369 (1836)	1643 (2203)	1250
MM W12000	3,330	1,246 (1,671)	935 (1253)	1246 (1671)	1495 (2005)	1250
MM W12000 C			750 rpm	1000 rpm	1200 rpm	
MM W12000 C	2,096	1,805 (2,421)	1354 (1815)	- (-)	- (-)	860
MM W12000 C	2,503	1,632 (2,189)	1224 (1641)	1632 (2189)	- (-)	1030
MM W12000 C	2,982	1,393 (1,868)	1045 (1401)	1393 (1868)	1672 (2242)	1230
MM W12000 C	3,428	1,212 (1,625)	909 (1219)	1212 (1625)	1454 (1950)	1400
MM W12000 C	3,944	1,053 (1,412)	790 (1059)	1053 (1412)	1264 (1695)	1625
MM W12000 C	4,390	0,947 (1,270)	710 (952)	947 (1270)	1136 (1524)	1800
MM W12000 C	4,897	0,849 (1,139)	637 (854)	849 (1139)	1019 (1366)	1800
MM W12000 C	5,476	0,758 (1,016)	569 (762)	758 (1016)	910 (1220)	1800
MM W12000 C	5,913	0,702 (0,941)	527 (706)	702 (941)	842 (1130)	1800
MM W12000 C	6,496	0,638 (0,856)	479 (642)	638 (856)	766 (1027)	1800
MM W17000			1200 rpm	1600 rpm	1800 rpm	
MM W17000	3,034	1,081 (1,450)	1297 (1740)	1730 (2319)	1946 (2609)	1800
MM W17000	3,538	1,081 (1,450)	1297 (1740)	1730 (2319)	1946 (2609)	1800
MM W17000	4,087	1,081 (1,450)	1297 (1740)	1730 (2319)	1946 (2609)	1800
MM W17000	4,571	1,081 (1,450)	1297 (1740)	1730 (2319)	1946 (2609)	1800
MM W17000	4,950	1,081 (1,450)	1297 (1740)	1730 (2319)	1946 (2609)	1800
MM W17000	5,500	1,081 (1,450)	1297 (1740)	1730 (2319)	1946 (2609)	1800
MM W18000			1000 rpm	1200 rpm	1600 rpm	
MM W18000	1,810	2,090 (2,803)	2090 (2803)	2508 (3363)	3344 (4484)	1800
MM W18000	2,105	2,090 (2,803)	2090 (2803)	2508 (3363)	3344 (4484)	1800
MM W18000	2,576	2,090 (2,803)	2090 (2803)	2508 (3363)	3344 (4484)	1800
MM W18000	2,967	2,090 (2,803)	2090 (2803)	2508 (3363)	3344 (4484)	1800
MM W18000	3,407	1,755 (2,353)	1755 (2353)	2106 (2824)	2808 (3766)	1800
MM W18000	3,786	1,659 (2,225)	1659 (2225)	1991 (2670)	2654 (3560)	1800
MM W18000 C			1000 rpm	1200 rpm	1600 rpm	
MM W18000 C	2,457	2,525 (3,386)	2525 (3386)	3030 (4063)	- (-)	1500
MM W18000 C	2,916	2,127 (2,852)	2127 (2852)	2552 (3423)	3403 (4564)	1600
MM W18000 C	3,461	1,792 (2,403)	1792 (2403)	2150 (2884)	2867 (3845)	1600
MM W18000 C	3,975	1,560 (2,092)	1560 (2092)	1872 (2510)	2496 (3347)	1600
MM W18000 C	4,418	1,404 (1,883)	1404 (1883)	1685 (2259)	2246 (3012)	1600
MM W18000 C	4,922	1,260 (1,690)	1260 (1690)	1512 (2028)	2016 (2704)	1600
MM W18000 C	5,298	1,170 (1,569)	1170 (1569)	1404 (1883)	1872 (2510)	1600
MM W18000 C	5,711	1,086 (1,456)	1086 (1456)	1303 (1748)	1738 (2330)	1600
MM W18000 C	6,761	0,929 (1,246)	929 (1246)	1115 (1495)	1486 (1993)	1600
MM W18000 C	7,288	0,862 (1,156)	862 (1156)	1034 (1387)	1379 (1850)	1600



Dimensions (mm)

Model	Bell housing	A	B1+ B2	C	H1	H2	H3	L1	L2	L3	Weight kg(lb)
MM W12000	-	414	930	624	400	1029	-25	1247	130	-	2530 (5580)
MM W12000C	-	0	930	624	400	1029	-25	1185	163	-	2530 (5580)
MM W17000	-	482	1080	768	480	1160	-30	1353	130	-	3500 (7720)
MM W18000	-	482	1080	768	480	1143	-30	1361	163	-	3650 (8050)
MM W18000C	-	0	1080	768	480	1143	-30	1297	176	-	3650 (8050)



57.4 m Patrol Vessel
Shipyard "Navantia" (Spain)
Equipped with:
• 2 Gearboxes MM W18000C

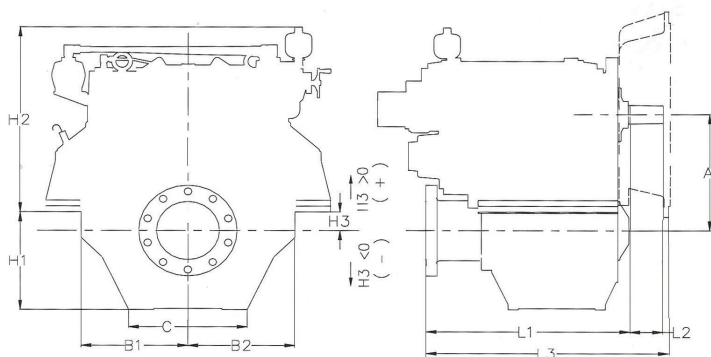
Main options:

- Classification, shaft brake, trailing pump
- Various choice of Power-take-off solutions, retrofittable - see in this selection guide
- Compatibility with Controllable Pitch Propeller (CPP) - see in this selection guide



Model	Ratios	kW/rpm (hp/rpm)	Sample power capacities kW (hp)			Max rpm
MM W20000			1000 rpm	1200 rpm	1500 rpm	
MM W20000	3,214	2,343 (3,142)	2343 (3142)	2812 (3770)	3515 (4713)	1800
MM W20000	3,317	2,343 (3,142)	2343 (3142)	2812 (3770)	3515 (4713)	1800
MM W20000	3,658	2,343 (3,142)	2343 (3142)	2812 (3770)	3515 (4713)	1800
MM W20000	4,364	2,343 (3,142)	2343 (3142)	2812 (3770)	3515 (4713)	1800
MM W20000	4,933	2,343 (3,142)	2343 (3142)	2812 (3770)	3515 (4713)	1800
MM W20000	5,593	2,192 (2,940)	2192 (2940)	2630 (3527)	3288(4409)	1800
MM W20000	6,179	1,873 (2,512)	1873 (2512)	2248 (3014)	2810 (3768)	1800
MM W20500			1000 rpm	1200 rpm	1500 rpm	
MM W20500	3,029	2,525 (3,386)	2525 (3386)	3030 (4063)	3788 (5079)	1500
MM W20500	3,614	2,525 (3,386)	2525 (3386)	3030 (4063)	3788 (5079)	1500
MM W20500	4,085	2,525 (3,386)	2525 (3386)	3030 (4063)	3788 (5079)	1500
MM W20500	4,850	2,127 (2,852)	2127 (2852)	2552 (3423)	3191 (4279)	1600
MM W20500	5,756	1,792 (2,403)	1792 (2403)	2150 (2884)	2688 (3605)	1600
MM W20500	5,959	1,731 (2,321)	1731 (2321)	2077 (2786)	2597 (3482)	1600
MM W20500	6,611	1,560 (2,092)	1560 (2092)	1872 (2510)	2340 (3138)	1600
MM W20500	7,348	1,404 (1,883)	1404 (1883)	1685 (2259)	2106 (2824)	1600
MM W20500	8,185	1,260 (1,690)	1260 (1690)	1512 (2028)	1890 (2535)	1600
MM W35000			750 rpm	900 rpm	1000 rpm	
MM W35000	2,027	3,700 (4,962)	2775 (3721)	3330 (4466)	3700 (4962)	1000
MM W35000	2,424	3,700 (4,962)	2775 (3721)	3330 (4466)	3700 (4962)	1000
MM W35000	3,036	3,700 (4,962)	2775 (3721)	3330 (4466)	3700 (4962)	1000
MM W35000	3,560	3,700 (4,962)	2775 (3721)	3330 (4466)	3700 (4962)	1000
MM W35000	3,750	3,700 (4,962)	2775 (3721)	3330 (4466)	3700 (4962)	1000
MM W35100			750 rpm	900 rpm	1000 rpm	1000
MM W35100	4,040	3,700 (4,962)	2775 (3721)	3330 (4466)	3700 (4962)	
MM W35100	4,478	3,700 (4,962)	2775 (3721)	3330 (4466)	3700 (4962)	1000
MM W35100	5,000	3,700 (4,962)	2775 (3721)	3330 (4466)	3700 (4962)	1000
MM W35100	5,400	3,700 (4,962)	2775 (3721)	3330 (4466)	3700 (4962)	1000

MM W20000 is also available on demand in coaxial version, named MM W20000C.



Dimensions (mm)

Model	Bell housing	A	B1+ B2	C	H1	H2	H3	L1	L2	L3	Weight kg(lb)
MM W20000	-	720	1420	712	685	1491	-35	1479	163	-	5700 (12570)
MM W20500	-	238	1420	712	685	1491	-35	1456	167	-	5700 (12570)
MM W35000	-	700	1476	1028	770	1750	-40	2129	167	-	9000 (19850)
MM W35100	-	775	1476	1028	770	1810	-40	2129	167	-	10000 (22050)



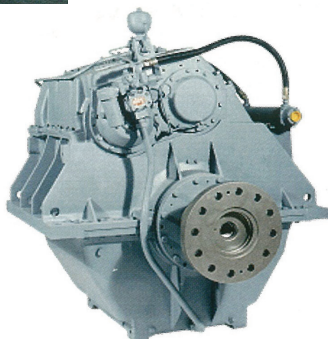
56 m longliner ship "LE SAINT-ANDRE "
Delivered by the shipyard "PIRIOU" to
"Pêche Avenir" in 2009

Equipped with:

- Gearbox MM W20000 NR with power-take-in (type B4) for 700 kW electrical booster
- CPP MMS 780
- Bureau Veritas class, ice 1C

Main options:

- Classification, shaft brake, trailing pump
- Various choice of Power-take-off solutions, retrofittable - see in this selection guide
- Compatibility with Controllable Pitch Propeller (CPP) - see in this selection guide



Power-take-off

Standard gearbox series

Power-take-off for gearboxes from NFB to NFC

PTO type	Output quantity	With clutch	Without clutch	Torque daN.m
PTO NFB	1	x	x	60 to 90
PTO NFC	1	x	x	90

Power-take-off for gearboxes from MM W3450 to MM W7400

PTO type	Output quantity	With clutch	Without clutch	Torque daN.m
PTO type 0 *	1		x	25
PTO type 1	1	x	x	140
PTO type 2	2	x	x	2 x 140
PTO type 3	3	x	x	3 x 140

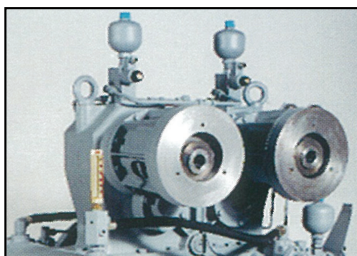
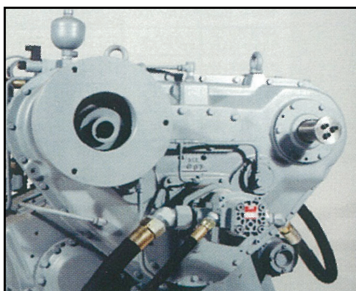
*PTO type 0 can be added to PTO type 1, 2 or 3

Power-take-off for gearboxes from MM W8000 to MM W35100

PTO type	Output quantity	With clutch	Without clutch	Torque daN.m
PTO type A	1		x	engine torque
PTO type B2	1	x	x	450
PTO type B3	1	x **	x	190
PTO type B4	1	x **	x	530
PTO type C *	2	x	x	2 x 375

*PTO type C can be added to PTO type A, B2 or B3

**The clutch is available only in non-reversing (NR) gearboxes



Options:

- Pump adaptation to SAE standard
- Auxiliary pumps

Marine Gearboxes - Twin input gearbox

Heavy duty ratings and dimensional data

Model	Ratios	kW/rpm (hp/rpm)	Sample power capacities kW (hp)			Max rpm
MM RSY 281		<i>per input</i>	<i>1500 rpm</i>	<i>1800 rpm</i>	<i>2100 rpm</i>	
MM RSY 281	3,527	0,371 (0,498)	557 (746)	668 (896)	779 (1045)	2100
MM RSY 281	4,130	0,316 (0,424)	474 (636)	569 (763)	664 (890)	2100
MM RSY 281	4,757	0,275 (0,369)	413 (553)	495 (664)	578 (774)	2100
MM RSY 281	5,602	0,233 (0,312)	350 (469)	419 (562)	489 (656)	2100
MM RSY 281	6,353	0,225 (0,302)	338 (453)	405 (543)	473 (634)	2100
MM RSY 281	7,284	0,184 (0,247)	276 (370)	331 (444)	386 (518)	2100

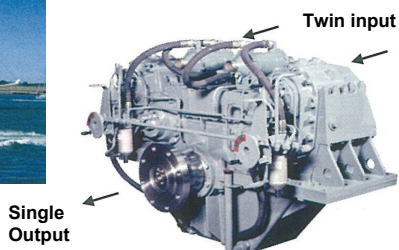
Main options:

- Classification
- Compatibility with Controllable Pitch Propeller (CPP) - see in this selection guide



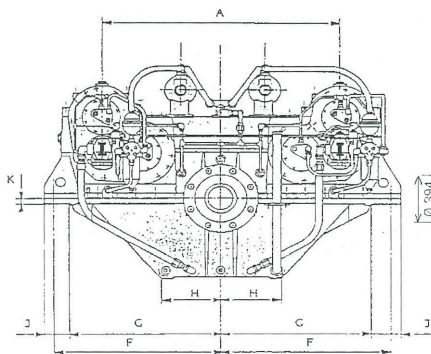
Sailing boat "Santa Maria Manuela"
Shipyard "Factorias de Marin" (Spain)

Gearbox MM RSY 281 with CPP MMS 480

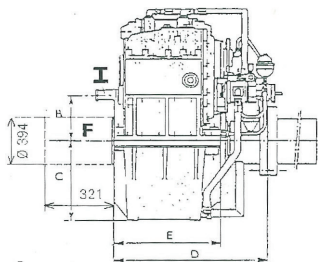


Dimensions (mm)

Model	A	B	C	D	E	F	G	H	J	K
MM RSY 281	1401	165	475	710	498	968	850	300	150	25



Arbres d'entrée ► **I**
Input shaft



No bell housing, no PTO

Weight: 2600 kg (5733 lb)



Power-take-off

Former range with continued manufacturing

Power-take-off for gearboxes from 201 to 281

PTO type	Output quantity	With clutch	Without clutch	Torque daN.m
PTO type 1	1	x	x	70
PTO type 2	2	x	x	90

Options:

- Pump adaptation to SAE standard
- Auxiliary pumps

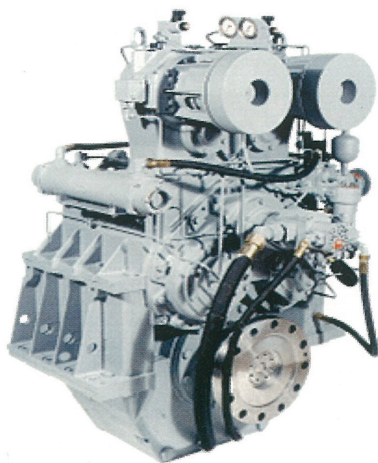
Power-take-off for gearboxes from 401 to 701

PTO type	Output quantity	With clutch	Without clutch	Torque daN.m
PTO type 0*	1		x	25
PTO type 1	1	x	x	140
PTO type 2	2	x	x	2 x 140
PTO type 3	3	x	x	3 x 140

- PTO type 0 can be added to PTO type 1, 2 or 3

Options:

- Pump adaptation to SAE standard
- Auxiliary pumps



Support of your good old Masson gearbox ...

Gearboxes with the following model names were manufactured under the brand names Masson, Pont-à-Mousson or Renk S.E.E. (Societe Européenne d'Engrenages) Manufacturing is discontinued, but after-sales support is still possible.
Please contact Masson Marine for parts and retrofit.

- RSA 60
- RCD 60
- 200
- 280
- 400
- 570

Former name, actual name: correspondance table

Some of the gearbox models changed names during the company history.
Herebelow is a correspondance table between former and actual model names

Former name	Actual Range
RSD 201, ECD 201, ESD 201	201
RSD 281, ECD 281, ESD 281	281
NGC, RCD 320, ECD 320, EID 320, ZF W3200, MM W3200	MM W3450
RSD 401, ECD 401, ESD 401, ZF W4000	401
RSD 401 GP, ECD 401 GP, ESD 401 GP or RSD 501, ECD 501, ESD 501 or RSD 601, ECD 601, ESD 601 or ZF W6000	601
RSD 471, ECD 471, ESD 471, ZF W4700	471
RSD 571, ECD 571, ESD 571	571
RSD 701, ECD 701, ESD 701, ZF W7100	701
RSD 603, ECD 603, ESD 603, ZF W6300, MM W6300	MM W6400
RSD 703, ECD 703, ESD 703, ZF W7000, MM W7000	MM W7200
RSD 753, ECD 753, ESD 753, ZF W7300, MM W7300	MM W7400
RCD 800, ECD 800, EID 800, ESD 800, ZF W8000, ZF W8200	MM W8000
RSL 800, ECL 800, ESL 800, ZF W8000C	MM W8000C
RCD 1250, ECD 1250, EID 1250, ESD 1250, ZF W12000, ZF W12200	MM W12000
RSI 1250, ECL 1250, ESL 1250, ZF W12000C	MM W12000C
RCD 1650, ECD 1650, EID 1650, ZF W16500, MM W16500	MM W17000
RCD 1850, ECD 1850, EID 1850, ESD 1850, ZF W18000, ZF W18200	MM W18000
RSL 1850, ECL 1850, ESL 1850, ZF W18000C	MM W18000C
RCD 2035, ECD 2035, EID 2035, ESD 2035, ZF W20000, ZF W20200	MM W20000
RSL 2035, ECL 2035, ESL 2035, ZF W20000C	MM W20000C
RSA 2035, ECA 2035, ESA 2035, ZF W20500	MM W20500

Controllable Pitch Propellers (CPP)

Heavy duty ratings and dimensional data

Dimensions (mm)

Model *	kW / rpm (hp / rpm)	Hub Ø B	Max Shaft Ø	Max ØA	Max D	E	Min I
MMS 300	0,6 (0,8)	300	100	1350	392	108	860
MMS 430	1,3 (1,7)	432	132	1850	518	303	933
MMS 480	2,5 (3,4)	480	160	2160	547	369	1097
MMI 480						467	1053
MMS 520	4,5 (6,0)	520	190	2340	587	360	1253
MMS 660	7,5 (10,1)	660	230	2880	664	460	1442
MMI 660						606	1457
MMS 720	11,0 (14,8)	720	255	3240	780	550	1610
MMS 780	15,0 (20,1)	780	285	3600	780	550	1745
MMI 780						700	1839
MMI 860	22,0 (29,5)	860	325	3930	942	761	1839
MMI 960	29,5 (39,6)	960	370	4385	970	913	2020
MMI 1070	42,0 (56,3)	1070	390	4890	1040	960	2060

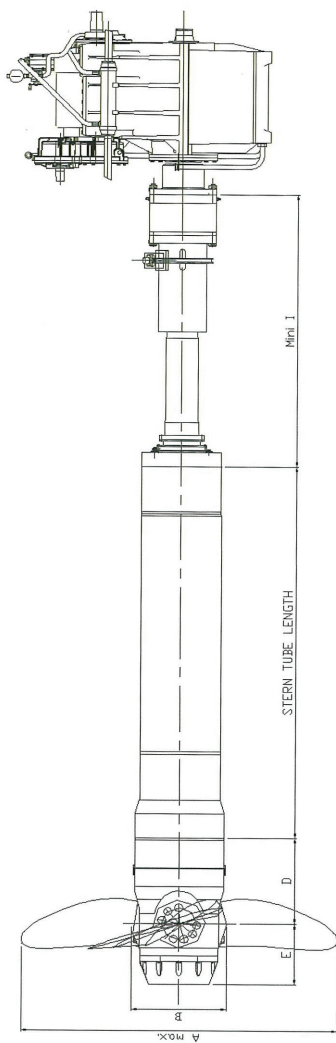
Model types:

- MMS : pitch actuator built on the gear box output flange
- MMI : pitch actuator built in the propeller hub

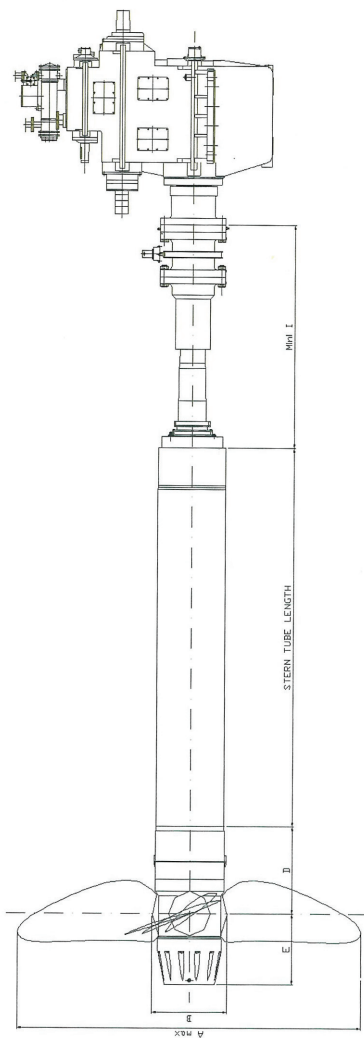


Fixed Pitch Propellers (FPP), nozzles also supplied by Masson Marine, please consult us.

MMS model type



MMI model type



Former CPP models

Support and correspondance table

Former name, actual name: correspondance table

The CPP models changed names during the history of the owner company, from Renou Dardel (RDL) to France Helices (FH), then to Masson Marine.

Herebelow is a correspondance table between former and actual model names

Former name	Actual Model
HPV/CPP 204	MMS 300
HPV/CPP 404	MMS 430
HPV / CPP 604 or 704	MMS 480
HPV / CPP 804 or 1004	MMS 520
HPV / CPP 1004 or 1504	MMS 660
HPV / CPP 1504, 2004 or 2504	MMS 720
HPV / CPP 2004 or 2504	MMS 780
HPV / CPP 3005	MMS 860

Other former CPP models manufactured by Masson Marine

HPV / CPP 303, 403, 603, 803



D-I
INDUSTRIAL CO., LTD.



Workboat Propulsion Systems



XMH

XIN MING HUA PTE LTD
XMH ENGINEERING PTE LTD

No. 44 Sungei Kadut Avenue
Singapore 729667

Tel : (65) 6368 0188
Fax : (65) 6368 0633
Email : sales@engine.com.sg
Website : www.xmh.com.sg



YOUR CONNECTION
TO THE RIGHT MACHINE

01 DMMT