



D-I
INDUSTRIAL CO., LTD.

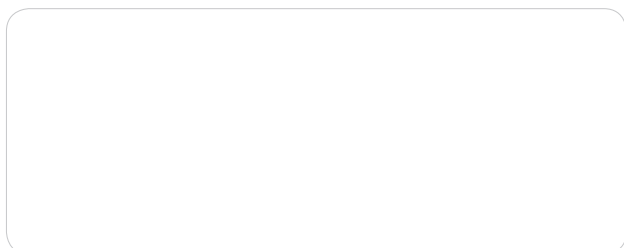
**MARINE TRANSMISSION
STEERING SYSTEM
POWER TAKE OFF**

13, Namgangro1367, Jinju, Gyeongnam, Republic of Korea (660-802)

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[C1504No1 DMT]

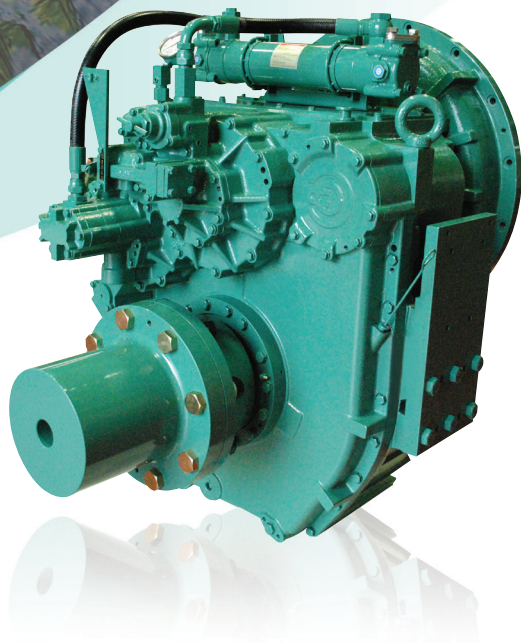


※ The contents described this catalogue may be modified without previous notice for performance improvement



MARINE TRANSMISSIONS

Hydraulic DMT Series



D-I MARINE TRANSMISSION
STEERING SYSTEM
POWER TAKE OFF
INDUSTRIAL CO., LTD.

www.d-i.co.kr

Your **Reliable** Partner

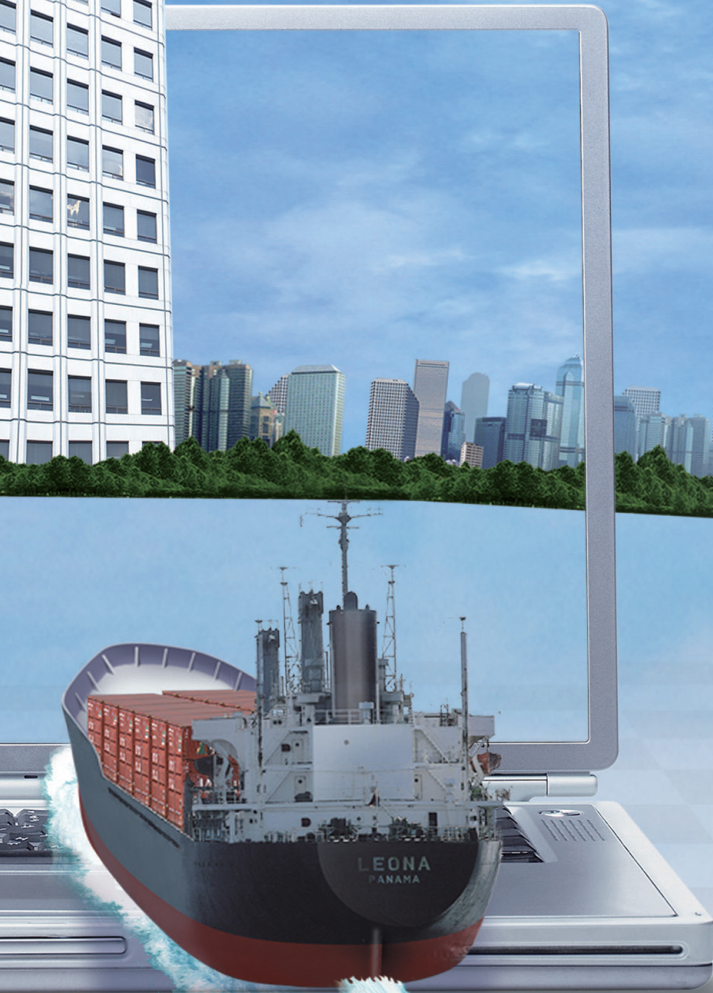
BETTER AND BETTER PRODUCTS
FOR THE FULL SATISFACTION OF CUSTOMER
IN ANY SEA



Summary

1. **Address :** 13, Namgangro1367, Jinju, Gyeongnam, Republic of Korea (660-802)
2. **Home page :** www.d-i.co.kr
3. **Foundation of the company :** 14th May, 1990
4. **Foundation of R&D department :** 10th May, 2005
5. **Product :** Marine transmission, Marine steering systems, PTO(Power take off),
Integral shaft supporter.
6. **Capacity of production :** 6,000 units /year
7. **The number of staffs :** 90





Business Fields

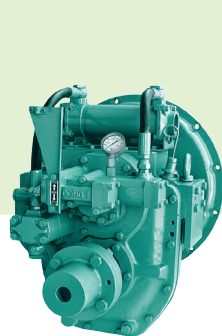
Marine Transmissions, PTOs(Power Take Offs), Hydraulic Steering Systems, Integral Shaft Supporters, Flexible Couplings, etc.

D-I INDUSTRIAL CO., LTD supports safe and convenient marine activities with the quality products through Total Marine Solutions which can meet customized requirements.

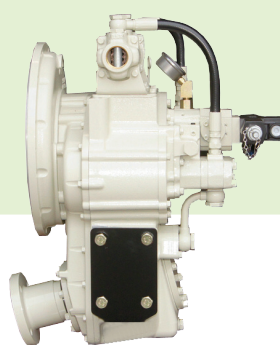


MARINE TRANSMISSIONS

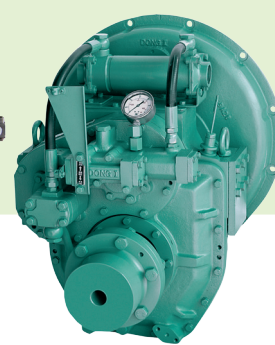
HYDRAULIC COMPACT CLUTCH TYPE
SAME TORQUE IN AHEAD & ASTERN
STANDARD SAE BELL HOUSING WITH COUPLINGS



DMT 50A



DMT 100IV



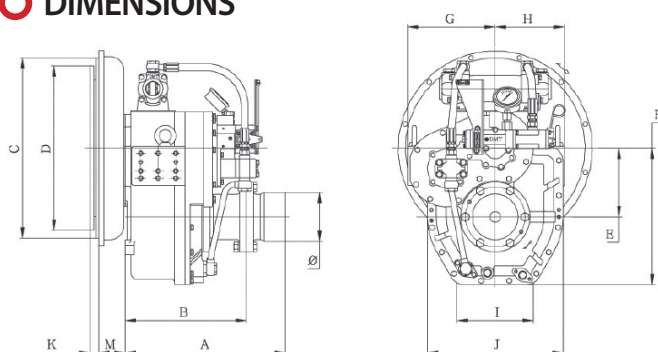
DMT 140H

PRODUCT CAPACITIES

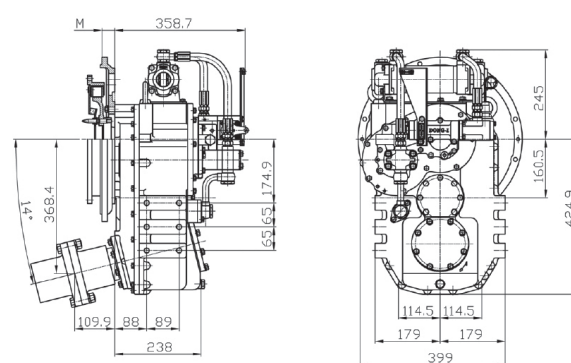
MODEL	Ratio	Max. Input Torque (kgf.m)	CAPACITY/ RPM		INPUT RATING						MAX RPM	APPROX. DRY WEIGHT(kg)	STANDARD BELL HOUSING
					1800RPM		2100RPM		2300RPM				
			kW	HP	kW	HP	kW	HP	kW	HP			
DMT 25AL	1.64, 2.07, 2.52 2.96, 3.32	30	0.030	0.041	55	73	63	85	70	94	3500	77	3, 4, 5
DMT 50A	1.61, 2.06, 2.45 2.82, 3.12, 3.46	55	0.056	0.075	101	136	118	158	129	173	3000	143	1, 2, 3, 4
DMT 90A	1.61, 2.06, 2.45 2.82, 3.12, 3.46	87	0.089	0.120	161	216	188	252	205	276	3000	162	1, 2, 3, 4
DMT 100IV	1.21, 1.54, 1.84 2.12, 2.52	103	0.105	0.141	190	255	222	297	243	326	4000	120	2, 3, 4
DMT 110A	1.77, 2.09, 2.42 2.82, 3.19, 3.81	110	0.112	0.151	202	272	236	317	259	348	2800	212	1, 2, 3, 4
DMT 140H	1.97, 2.57, 3.03 3.46	130	0.133	0.178	239	321	280	375	306	411	2800	218	1, 2, 3, 4

※ Classification and specification of the table could be different. Please contact us about it.

DIMENSIONS



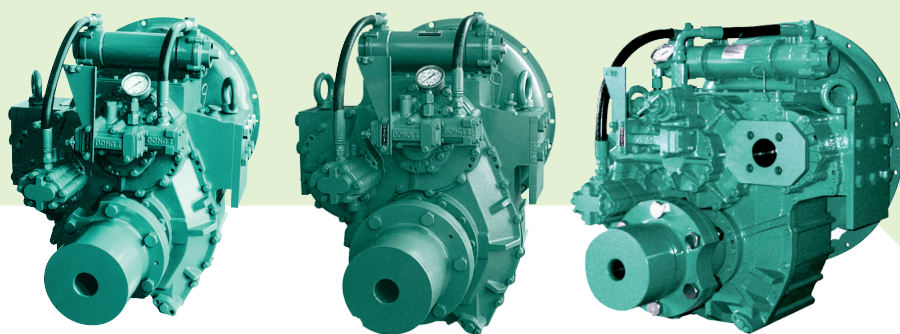
(DMT 25AL, 50A, 110A, 140H)



(DMT 100IV)

Model	A	B	E	F	G	H	I	J	Ø
DMT 25AL	355	255	118.7	244	177	135	157	260	72
DMT 50A	403	286	160.5	323.5	217	175	170	326	100
DMT 90A	436	325	160.5	323.5	228	175	170	326	110
DMT 110A	485	335	195	388	249	197	224	386	140
DMT 140H	494	344	195	388	249	197	224	386	140

Model	Housing	Driving ring	C	D	M	K
DMT 25AL	SAE #3	11.5"	409.5	352.35	35	39.6
	SAE #4	10"	361.9	314.25	30	53.8
		7.5"	361.9	241.25	30	30.2
DMT 50A	SAE #5	7.5"	314.3	241.25	24	30.2
DMT 50A	SAE #1	14"	511.1	466.65	75	25.4
DMT 90A	SAE #2	11.5"	447.6	352.35	35	39.6
DMT 100IV	SAE #3	11.5"	409.5	352.35	35	39.6
DMT 110A		10"	361.9	314.25	30	53.8
DMT 140H		7.5"	361.9	241.25	30	30.2



DMT 240H

DMT 280H

DMT 400H

OPTIONS

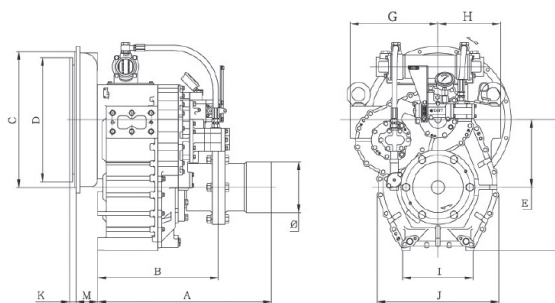
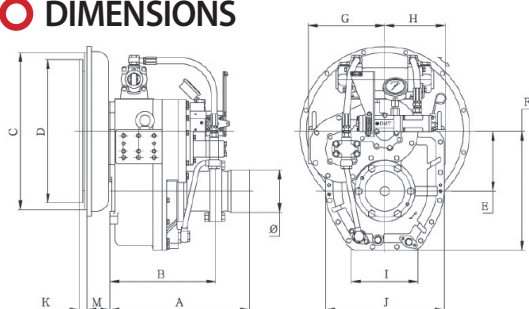
- TROLLING VALVE
- DUAL STAGE COUPLING
- ELECTRONIC SHIFTING VALVES

PRODUCT CAPACITIES

MODEL	Ratio	Max. Input Torque (kgf.m)	CAPACITY/ RPM		INPUT RATING						MAX RPM	APPROX. DRY WEIGHT(kg)	STANDARD BELL HOUSING
			kW	HP	1800RPM		2100RPM		2300RPM				
					kW	HP	kW	HP	kW	HP			
DMTP 5100	1.47, 1.76, 1.93	168	0.172	0.231	310	416	361	485	396	531	2500	270	1, 2, 3
	2.48, 3.08	150	0.153	0.206	276	370	322	433	353	474			
	3.46	130	0.133	0.178	239	321	280	375	306	411			
DMT 150H	1.83, 2.09, 2.51 3.08, 3.43	168	0.172	0.231	310	416	361	485	396	531	2500	287	1, 2
DMT 190H	1.83, 2.09, 2.51 3.08, 3.43	180	0.184	0.247	332	445	387	519	425	570	2500	310	1, 2
DMT 240H	1.50, 1.97, 2.44 2.93, 3.40	218	0.224	0.300	403	541	471	632	516	692	2500	400	0, 1
DMT 260H	2.06, 2.50, 2.92 3.26	258	0.265	0.355	477	640	557	747	610	818	2500	490	0, 1
DMT 280H	2.06, 2.50, 2.92 3.26	298	0.306	0.410	550	738	642	862	704	944	2500	506	0, 1
DMT 400H	1.43, 1.72, 2.03	453	0.465	0.624	838	1124	978	1311	1070	1436	2300	660	0, 1
	2.46	397	0.407	0.546	734	984	856	1148	937	1257			
	2.75	323	0.331	0.444	596	799	696	934	762	1022			
DMT 550H	1.43, 1.64, 1.81 2.03	551	0.565	0.758	1018	1366	1188	1593	1301	1745	2300	730	0, 1
	2.33	537	0.551	0.739	992	1331	1158	1553	1268	1701			
	2.60	485	0.498	0.667	895	1201	1045	1402	1145	1535			
	2.91	404	0.415	0.557	748	1003	872	1169	955	1281			

※ Classification and specification of the table could be different. Please contact us about it.

DIMENSIONS



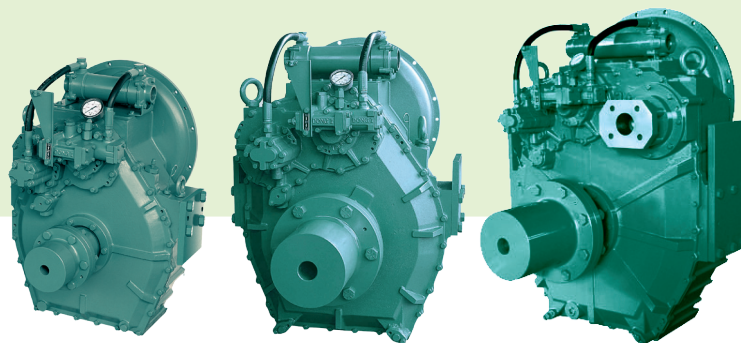
Model	A	B	E	F	G	H	I	J	Ø
DMTP 5100	531.3	391.3	195	390	270	250	206	383	150
DMT 150H	518	378	211.2	428	275	210	218	415	150
DMT 190H	590	390	211.2	428	275	210	218	415	185
DMT 240H	639	439	227	448	330	240	254	447	185
DMT 260H	653.5	453.5	254	484	330	235	276	458	190
DMT 280H	653.5	453.5	254	484	330	235	276	458	190
DMT 400H	705.6	505.5	235.9	450	360	360	266	436	190
DMT 550H	771.5	551.7	235.9	464	360	275	282	449	190

Model	Housing	Driving ring	C	D	M	K
DMTP 5100	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
DMT 150H	SAE #1	14"	511.1	466.65	64	25.4
DMT 190H	SAE #2	11.5"	447.6	352.35	46	39.6
DMT 240H	SAE #0	18"	647.7	571.5	81	15.7
DMT 260H	SAE #0	14"	647.7	466.65	81	25.4
DMT 280H	SAE #1	14"	511.1	466.65	81	25.4
DMT 400H	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
DMT 550H	SAE #0	18"	647.7	571.5	130	15.7
	SAE #0	14"	647.7	466.65	130	25.4
	SAE #1	14"	511.1	466.65	122	25.4

※ If you want to apply a high flexible coupling, the dimension "M" should be adjusted accordingly. Please contact us about it.

D-I HIGH RATIO MARINE TRANSMISSIONS

HYDRAULIC COMPACT CLUTCH TYPE
SAME TORQUE IN AHEAD & ASTERN
STANDARD SAE BELL HOUSING WITH COUPLINGS



DMT 100HL

DMT 260HL

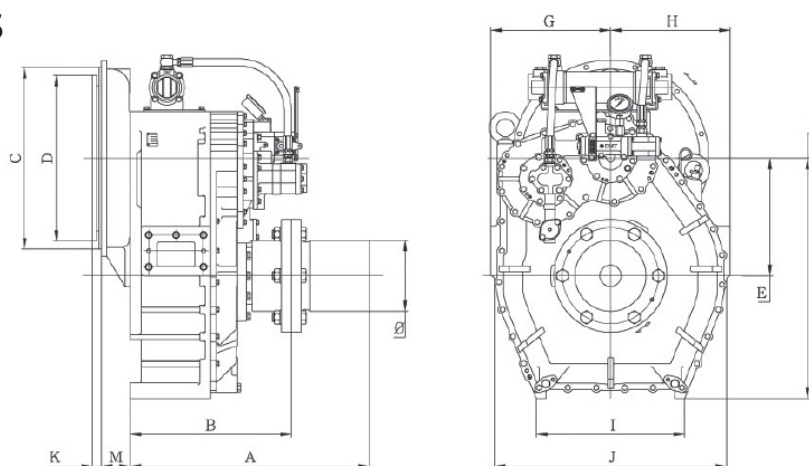
DMT 6500

PRODUCT CAPACITIES

MODEL	Ratio	Max. Input Torque (kgf.m)	CAPACITY/ RPM		INPUT RATING						MAX RPM	APPROX. DRY WEIGHT(kg)	STANDARD BELL HOUSING
					1800RPM		2100RPM		2300RPM				
			kW	HP	kW	HP	kW	HP	kW	HP			
DMT 100HL	4.07, 4.50, 4.95	89	0.091	0.122	164	219	191	256	209	281	3000	263	1, 2, 3
	5.29	86	0.088	0.118	158	213	185	248	202	272			
	5.95	75	0.076	0.103	138	185	161	216	176	236			
DMT 135HL	4.07	131	0.134	0.180	241	324	282	378	309	415	2800	293	1, 2, 3
	4.50	125	0.128	0.172	230	309	269	361	295	396			
	4.95	115	0.118	0.158	214	287	249	334	272	365			
DMT 170HL	4.04, 4.48	168	0.172	0.231	310	416	361	485	396	531	2500	352	1, 2
DMT 180HL	5.15, 5.96	168	0.172	0.231	310	416	361	485	396	531	2500	475	1, 2
DMT 190HL	4.04, 4.48	180	0.184	0.247	332	445	387	519	425	570	2500	370	1, 2
DMT 260HL	3.53, 4.08, 4.52	258	0.265	0.355	477	640	557	747	610	818	2500	640	0, 1
	5.04	239	0.245	0.328	441	591	514	690	564	756			
DMTP 6500	5.11, 5.62, 5.91	258	0.265	0.356	477	640	557	747	610	818	2800	850	0, 1
	6.57, 6.95	238	0.245	0.328	440	590	514	689	563	755			

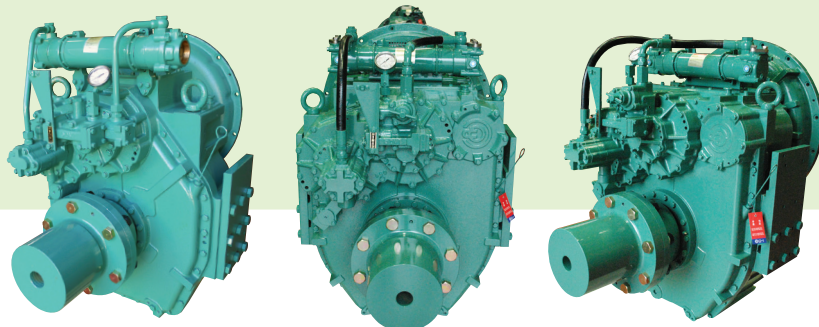
※ Classification and specification of the table could be different. Please contact us about it.

DIMENSIONS



Model	A	B	E	F	G	H	I	J	Ø
DMT 100HL	501	351	274	563.5	284	284	370	552	134
DMT 135HL	503.2	351.2	274	563.5	284	284	370	552	148
DMT 170HL	580	390	260.9	521.5	280	258	316	510	180
DMT 180HL	617.5	427.5	331	667	337	337	425.5	654	180
DMT 190HL	625	405	261	530.5	280	258	307	510	200
DMT 260HL	673.5	453.5	331	662	337	337	432	654	200
DMTP 6500	777	527	415	842	440	440	448	756.2	220

Model	Housing	Driving ring	C	D	M	K
DMT 100HL DMT 135HL	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
DMT 170HL DMT 180HL DMT 190HL	SAE #1	14"	511.1	466.65	64	25.4
	SAE #2	11.5"	447.6	352.35	46	39.6
DMT 260HL DMTP 6500	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



DMT 300HL

DMT 460HL

DMT 560HL

OPTIONS

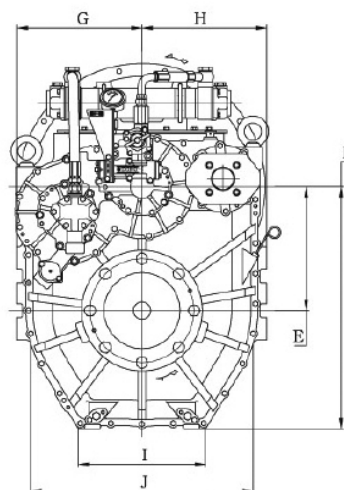
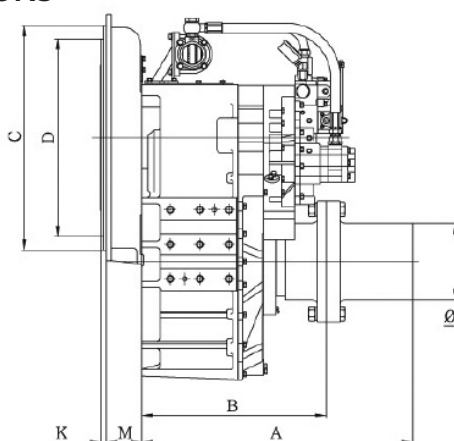
- TROLLING VALVE
- DUAL STAGE COUPLING
- ELECTRONIC SHIFTING VALVES

PRODUCT CAPACITIES

MODEL	Ratio	Max. Input Torque (kgf.m)	CAPACITY/ RPM		INPUT RATING						MAX RPM	APPROX. DRY WEIGHT(kg)	STANDARD BELL HOUSING
					1800RPM		2100RPM		2300RPM				
			kW	HP	kW	HP	kW	HP	kW	HP			
DMT 300HL	3.56	298	0.305	0.410	550	738	642	862	703	943	2300	700	0, 1
	4.13	292	0.300	0.402	539	723	630	845	690	926			
	4.59	286	0.293	0.394	529	710	617	828	676	907			
DMT 460HL	3.02, 3.28 3.56, 4.07	453	0.465	0.623	837	1123	976	1309	1070	1435	2300	750	0, 1
	4.48	409	0.420	0.563	756	1013	881	1182	966	1296			
	4.95	374	0.383	0.514	690	926	806	1081	883	1184			
DMT 560HL	3.02, 3.28 3.56, 4.07	550	0.564	0.757	1017	1364	1186	1590	1299	1742	2300	830	0, 1
	4.48	526	0.540	0.723	972	1303	1134	1520	1242	1665			
	4.95	435	0.446	0.599	805	1080	939	1259	1028	1379			

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DIMENSIONS



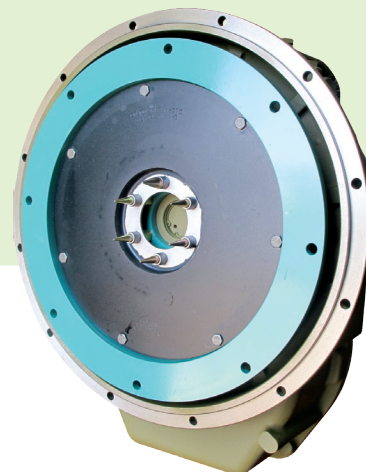
Model	A	B	E	F	G	H	I	J	Ø
DMT 300HL	673.4	453.4	319	647.5	325	330	438.6	660	200
DMT 460HL	781.6	531.6	357.5	698	360	360	377	659.4	220
DMT 560HL	801.6	551.6	357.5	698	360	360	377	659	220

Model	Housing	Driving ring	C	D	M	K
DMT 300HL	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
DMT 460HL	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
DMT 560HL	SAE #0	18"	647.7	571.5	130	15.7
	SAE #0	14"	647.7	466.65	130	25.4
	SAE #1	14"	511.1	466.65	122	25.4

※ If you want to apply a high flexible coupling, the dimension "M" should be adjusted accordingly. Please contact us about it.

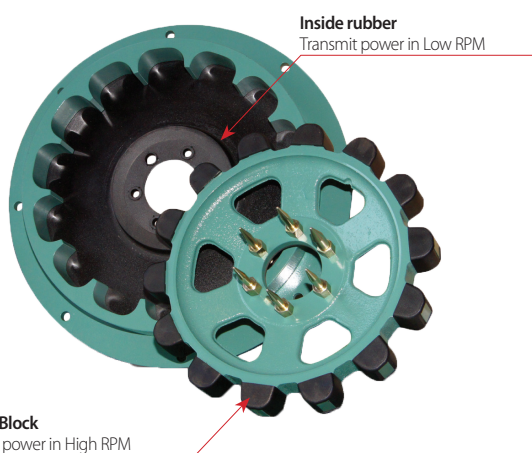
FLEXIBLE COUPLING

REDUCE NOISE AND VIBRATION
11.5", 14" FLYWHEEL AVAILABLE

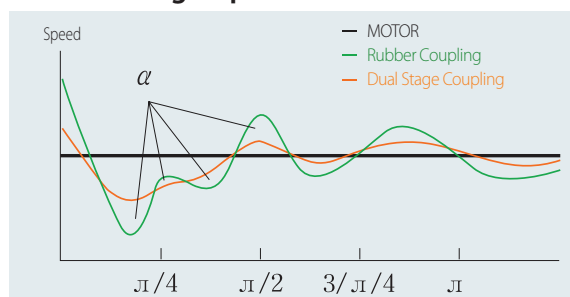


DUAL STAGE COUPLING

The Dual Stage Coupling has 2 kinds of rubber blocks to reduce noise and vibration in different RPM section. Inner blocks transmit power in low RPM section and outer blocks transmit power in high RPM (over 1,000RPM) section



Factors of Angle Speed

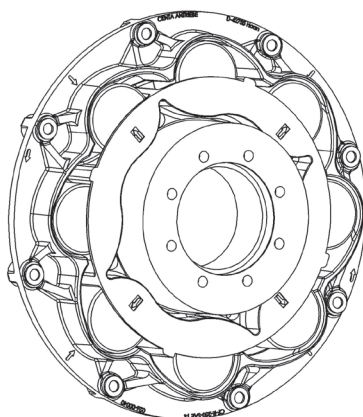


* DUAL STAGE RUBBER BLOCKS absorb the impacts & noises occurred from connecting parts.
* And they also decrease the vibrations following the engine explosion timing.

FLEXIBLE COUPLING



HC

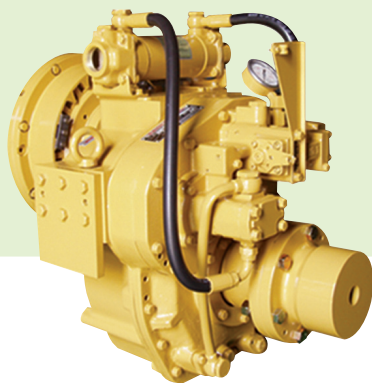


CFR



The Flexible Coupling protects propulsion shaft system by reducing and absorbing vibration torques from engine operation and impact torque in clutch shifting.

With Torque Limit application, even when the rubber parts are damaged, emergency power transmissions are available.



DMT 140P

INDUSTRIAL TRANSMISSION

WATER JET
WATER PUMP, HYDRAULIC PUMP,
SAND PUMP, FIRE FIGHTING PUMP

PRODUCT CAPACITIES

MODEL NAME	Rotate Direction	Reduction Ratio	Max. Input (RPM)	Max. Input Torque (kgf. m)	Output Capacity (HP)			Standard Housing
					1800RPM	2100RPM	2400RPM	
DMT 140P	AHEAD	1.47	2800	130	322	375	429	1, 2, 3
	ASTERN	1.47	2800	35	86	101	115	
DMT 240P	AHEAD	1.25	2500	260	653	762	833	0, 1
	ASTERN	1.25	2500	50	126	147	161	
DMP 400P	AHEAD	1.25	2500	453	1,138	1,328	1,518	0, 1
	ASTERN	1.25	2500	90	226	263	301	

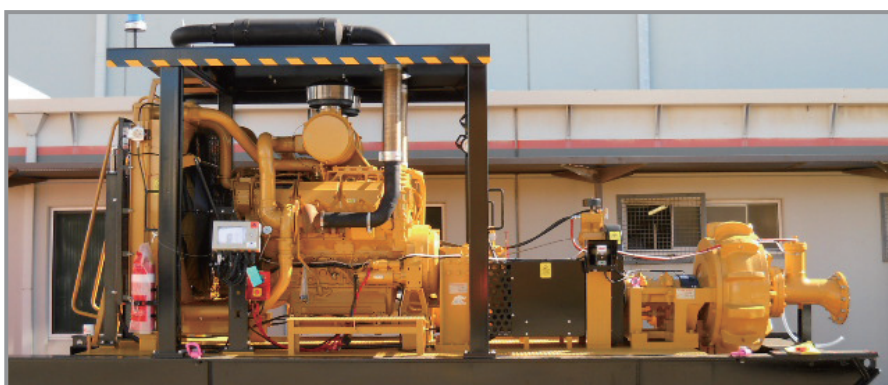
* Different torque and capacity in ahead and astern function.

Ahead and Astern clutches can be exchanged each other for twin propulsion system.

Dimension data for installation is as same as each **DMTP 5100, DMT 240H, DMT 400H**

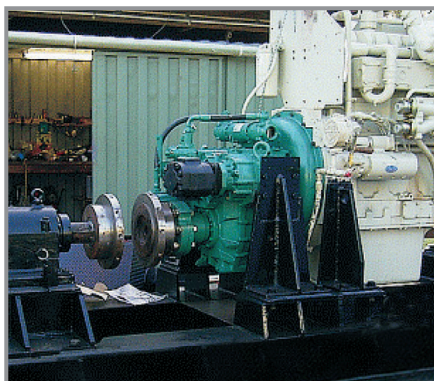
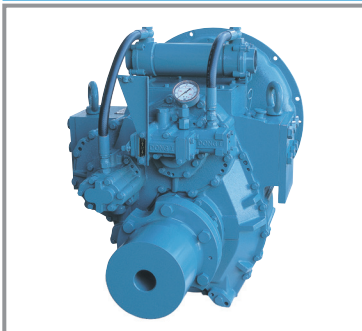
PUMP DRIVE APPLICATIONS

DMT 400P



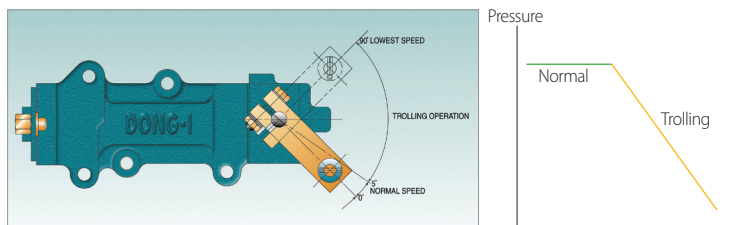
Applicable to drive Water Jet, Dredging pump, Fire fighting pump and other industrial equipments

DMT 240P



TROLLING VALVE

SLOW SPEED OPERATION OR MANEUVERING



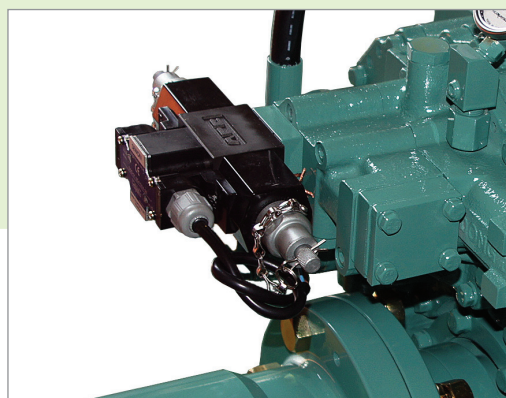
The TROLLING VALVE is designed to allow very low speed operation by precisely controlling clutch slippage

The trolling valve is fitted directly on the selector valve. Trolling operation can be applied both ahead and astern direction. Trolling valve operation must be limited to a maximum of 900 engine RPM

ELECTRONIC CONVERSION VALVE

SUITABLE FOR ELECTRONIC ENGINE

- Sustainable sailing by adopting urgency operating valve
- Compatible to all electronic engine control makers
- Safety with solenoid valve by global makers



ELECTRONIC CONTROL SYSTEM

SERIES 4500 SERIES 4500 SINGLE TYPE





EXPORT TO TOTAL 66 COUNTRIES

- Europe : Turkey, UK, Netherlands, etc. 19 countries
- Middle East : U.A.E, Saudi Arabia, etc. 10 countries
- Asia : Singapore, Philippines, etc. 14 countries
- America & Others : Chile, Brazil, Australia, etc. 23 countries

