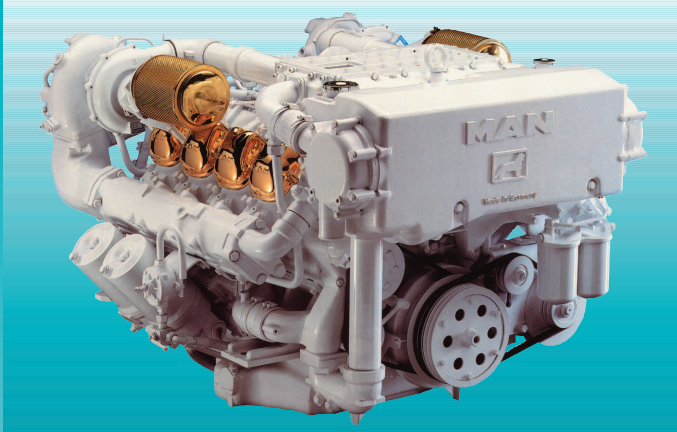


PROPULSION ENGINES

POWER: HEAVY DUTY	147-588 kW
MEDIUM DUTY	176-809 kW
LIGHT DUTY	198-956 kW



Engine and Gearbox:

MAN 4-stroke high-speed marine diesel engines and all well-known gearboxes, for fixed as well as controllable pitch propeller.

Construction:

All sets are delivered with engine and gearbox foundation for direct installation in the ship.

Cooling System:

The sets are available with sea water/fresh water cooling incl. all pumps, all mounted on the set. Alternatively for connection to box coolers.

Starting System:

24V electric start or compressed air.

Control System:

The sets are delivered with control systems according to the customers' demands, i.e. instrument panels for engine room, bridge with necessary alarms and shut-downs according to the classification rules, if requested.

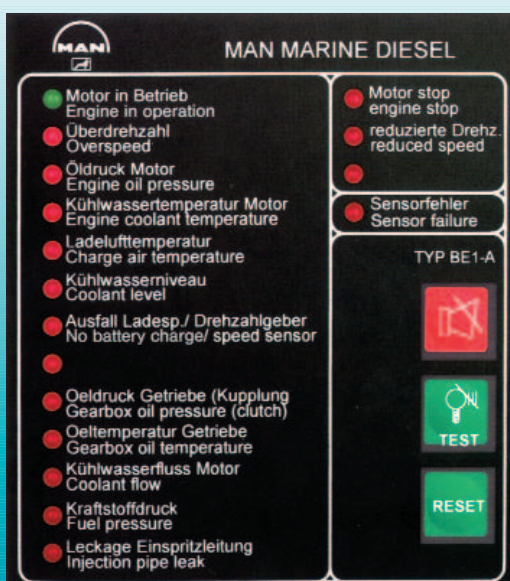
Furthermore, the sets are available with remote control levers for Engine speed and propeller rotation/pitch of propeller.

Quality, Economy:

The engines are characterized by:

- **Low fuel oil consumption, approx. 190 g/kW**
- **Long lifetime, 20,000 operation hours before first overhaul**
- **Low maintenance costs**
- **Low noise level, approx. 95 dB**
- **Compactness and low weight, approx. 3,5 kg/kW**
- **New Turbo-system with a so-called wastegate to prevent black smoke at low engine speed**
- **Meet newest environmental standards**

All these advantages, together with the high quality, make a DEMP propulsion engine a valuable, long-term investment.



RATING LIST

Engine type ¹⁾	Cylinder arrangement and quantity ²⁾	① MCR rating, heavy duty ³⁾	② MCR rating, medium duty ³⁾	③ MCR rating, light duty ³⁾	Max. rating for classification ⁴⁾	Speed	Fuel oil consumption	Bore / Stroke / Volume	Max. length ⁵⁾	Width ⁵⁾	Height with low oil sump ⁵⁾	Height from middle crankshaft to top of engine ⁵⁾	Weight, dry ⁶⁾	Proposal for gearboxes ⁶⁾	Gearbox weight
		kW (HP)	kW (HP)	kW (HP)	kW (HP)	rpm	g/kWh	mm/mm/ltr	mm	mm	mm	mm	kg		kg
D 0826 LE 40	6 R	147 (200)	— —	— —	147 (200)	2100	203	108/120	1130	855	830	554	640	HSW 800 A2 ③	64
		— —	176 (240)	— —	176 (240)	2400	208	6,6						MG 5050 A ③	80
		— —	— —	198 (270)	198 (270)	2600	215								
D 2866 E	6 R	125 (170)	132 (180)	— —	125 (170)	1500	208	128/155	1500	860	1026	695	985	MG 5081 ①	179
		151 (205)	162 (220)	— —	151 (205)	1800	213	11,97						IRM 310 PL ①	142
		165 (224)	178 (242)	— —	165 (224)	2100	220							MG 507-1 ②	159
		— —	— —	185 (252)	170 (231)	2200	225							IRM 301 PL-2 ②	94
D 2866 TE	6 R	190 (258)	206 (280)	— —	206 (280)	1800	210	128/155	1448	897	1148	817	1000	MG 5081 ①	179
		— —	221 (300)	— —	221 (300)	2100	217	11,97						IRM 311 PL ①	149
		— —	225 (306)	235 (320)	235 (320)	2200	225							IRM 301A-2 ③	99
		— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —
D 2866 TE 9)	6 R	203 (276)	223 (303)	— —	218 (296)	1800	210	128/155	1448	897	1148	817	1000	MG 5091 ①	220
		— —	225 (306)	— —	225 (306)	2100	215	11,97						MG 5081 ②	179
		— —	— —	250 (340)	250 (340)	2200	218							IRM 301 A-2 ③	99
		— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —
D 2866 LXE 40	6 R	250 (340)	279 (379)	— —	279 (379)	1800	202	128/155	1448	897	1148	817	1020	MG 5114 ①	203
		— —	294 (400)	— —	294 (400)	2100	212	11,97						IRM 350 PL ①	256
		— —	— —	324 (440)	324 (440)	2200	220							IRM 310 A ③	149
D 2866 LE 403	6 R	— —	368 (500)	— —	368 (500)	2100	234	128/155	1320	869	998	667	1160	MG 5114 ②	203
		— —	— —	— —	— —	— —	— —	11,97						IRM 350 PL ②	256
D 2866 LE 402	6 R	— —	— —	368 (500)	368 (500)	2200	233	128/155						MG 5085 A ③	123
		— —	— —	— —	— —	— —	— —	11,97						IRM 310 A ②	149
D 2866 LE 405	6 R	— —	— —	449 (610)	441 (600)	2200	227	128/155						MG 5090 A ③	215
		— —	— —	— —	— —	— —	— —	11,97						IRM 311 A ③	150
D 2848 LE	8 V	280 (380)	294 (400)	— —	294 (400)	1800	205	128/142	1176	1206	998	640	1210	MG 5114 ①	203
		— —	331 (450)	— —	331 (450)	2100	208	14,62						BW 155 ①	263
		— —	347 (472)	— —	375 (510)	2300	210							MG 5091 ②	220
D 2848 LE 401	8 V	— —	397 (540)	— —	397 (540)	2100	219	128/142	1176	1216	1048	660	1310	MG 5114 ②	203
		— —	— —	500 (680)	500 (680)	2300	232	14,62						IRM 350 A ③	234
D 2848 LE 405	8 V	— —	478 (650)	— —	— —	2100	212	128/142	1176	1230	1073	685	1340	BW 155 ②	263
		— —	— —	— —	— —	— —	— —	14,62						— —	— —
D 2848 LE 403	8 V	— —	— —	588 (800)	— —	2300	230	128/142	1176	1230	1073	685	1340	MG 5114 A ③	206
		— —	— —	— —	— —	— —	— —	14,62						IRM 350 A ③	234
D 2840 LE	10 V	346 (470)	365 (496)	— —	365 (496)	1800	200	128/142	1480	1183	1072	691	1410	MG 5141 ①	281
		— —	412 (560)	— —	412 (560)	2100	208	18,27						WAF 242 ①	500
		— —	434 (590)	— —	467 (635)	2300	210							BW 155 ①	263
D 2840 LE 402	10 V	441 (600)	— —	— —	441 (600)	1800	212	128/142	1334	1219	1170	660	1510	MG 5202 ①	587
		— —	— —	— —	— —	— —	— —	18,27						BW 191-2 ①	680
D 2840 LE 401	10 V	— —	478 (650)	— —	478 (650)	2100	212	128/142	1334	1211	1069	660	1520	BW 155 ②	263
		— —	— —	603 (820)	603 (820)	2300	222	18,27						MG 5114 A ③	206
		— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	IRM 350 A ③	234
D 2840 LE 403	10 V	— —	— —	772 (1050)	— —	2300	227	128/142	1334	1230	1118	685	1570	BW 155 ③	263
		— —	— —	— —	— —	— —	— —	18,27						— —	— —
D 2842 LE	12 V	420 (571)	441 (600)	— —	441 (600)	1800	200	128/142	1638	1183	1172	769	1610	WAF 340 ①	600
		— —	497 (676)	— —	497 (676)	2100	208	21,93						BW 190 ①	333
		— —	520 (707)	— —	559 (760)	2300	210							BW 155 ②	263
D 2842 LE 403	12 V	529 (720)	— —	— —	— —	1800	216	128/142	1491	1230	1105	685	1750	MG 5202 ①	587
		— —	— —	— —	— —	— —	— —	21,93						BW 191-2 ①	680
		— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —
D 2842 LE 401	12 V	— —	588 (800)	— —	588 (800)	2100	212	128/142	1491	1211	1082	660	1700	BW 190 ②	333
		— —	— —	735 (1000)	735 (1000)	2300	222	21,93						WVS 234 M ③	280
		— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	BW 160/A ③	286
D 2842 LE 408	12 V	— —	735 (1000)	— —	735 (1000)	2100	216	128/142	1491	1230	1105	685	1750	WVS 430/1 ②	505
		— —	— —	— —	— —	— —	— —	21,93						BW 190/A ②	333
D 2842 LE 402	12 V	— —	— —	809 (1100)	809 (1100)	2300	224	128/142	1491	1211	1082	660	1720	WVS 234 M ③	280
		— —	— —	— —	— —	— —	— —	21,93						BW 165/A ③	288
D 2842 LE 406	12 V	— —	— —	882 (1200)	— —	2300	228	128/142	1491	1230	1105	685	1750	WVS 234 M ③	280
		— —	— —	— —	— —	— —	— —	21,93						BW 165 P3/A3 ③	272
D 2842 LE 40410)	12 V	— —	— —	956 (1300)	— —	2300	228	128/142	1491	1230	1105	685	1800	BW 165 P4 ③	280
		— —	— —	— —	— —	— —	— —	21,93						WVS 234/2 ③	335

Agent for:



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