

The MC Program

The MAKITA-MITSUI-MAN B&W Diesel two-stroke MC & MC-C engines are characterized by having mechanically driven camshaft controlled timing of fuel injection, exhaust valves, starting air valves and cylinder lubrication.

マキタ - 三井 - MAN B&W MC & MC-C 形 2 サイクルディーゼル機関の特徴は、燃料噴射、排気弁、始動空気弁及びシリンダ注油器のタイミングを、機械的に駆動されたカム軸を用いて制御していることです。

The ME-B Program

The ME-B engines are characterized by having electronically controlled timing of fuel injection and cylinder lubrication.

The new generation of electronically controlled diesel engines serves to reduced operating costs, to reduced emissions, to increase reliability and to provide a high degree of flexibility in terms of operating modes and programs.

The benefits of the ME-B engines are:

- fuel optimized over a wide power range
- improved cylinder lube oil consumption
- improved emission characteristics
- improved low load running,

ME-B形機関の特徴は、燃料噴射及びシリンダ注油器のタイミングを電子制御していることです。

電子制御された新世代のディーゼル機関は、運行費用の削減、排気ガス放出物の削減、信頼性の向上に適しており、また、運転モード及びスケジュールに高い柔軟性を与えることができます。

ME-B形機関の利点は、以下のとおりです：

- 広い負荷範囲における燃料消費率の最適化
- シリンダ潤滑油消費量の改善
- エミッション特性の改善
- 低負荷運転の改善

Layout Diagram

Any MCR point can be chosen within the below layout area as:

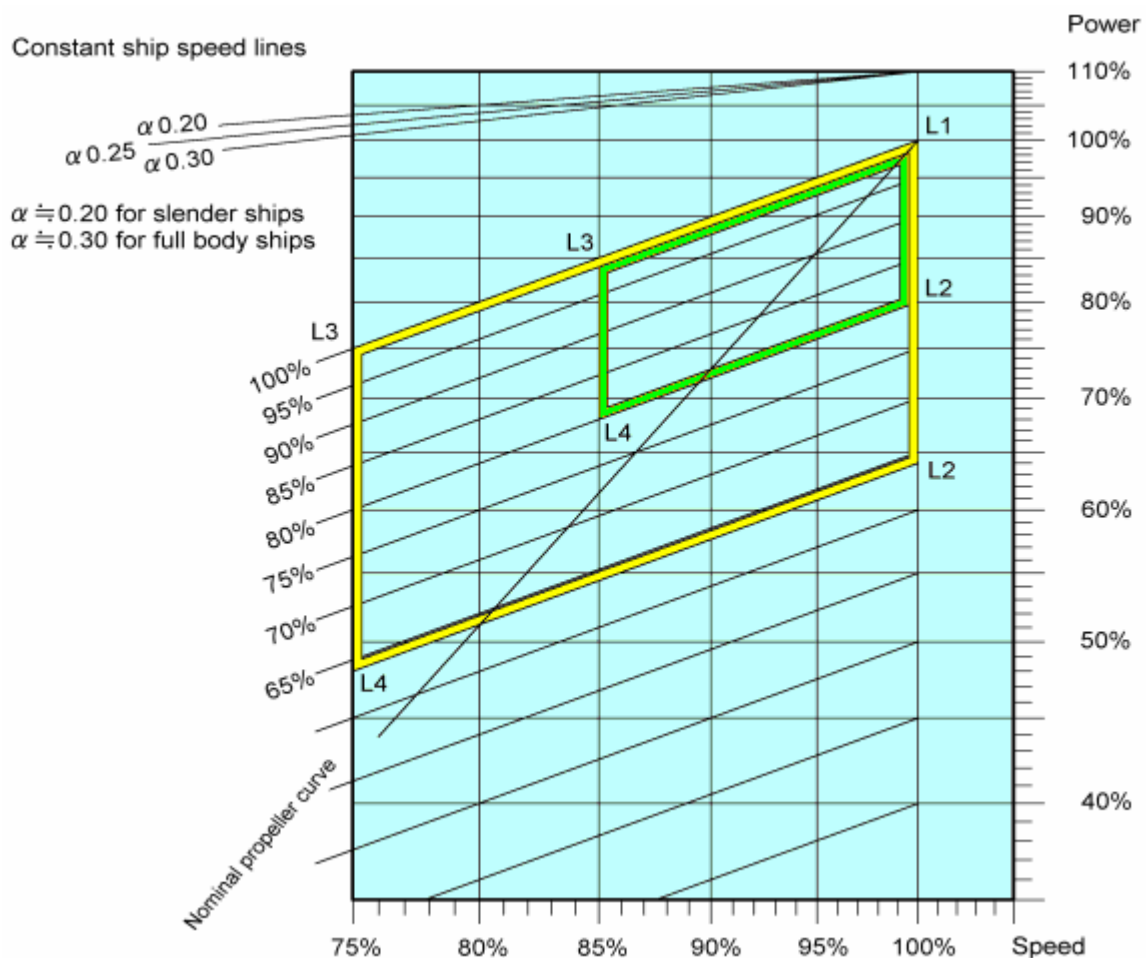
- Green area: S50MC-C(MARK8), S46MC-C, S42MC, S40ME-B, S35ME-B, S35MC, L35MC
- Yellow area: S50MC-C(MARK7), S50MC

Defined on the layout diagram left to obtain an optimum point (combination of output and speed) for laying out the propeller, engine and ship.

下記のLayout Diagram において:

- 緑色線の内側: S50MC-C(MARK8), S46MC-C, S42MC, S40ME-B, S35ME-B, S35MC, L35MC
- 黄色線の内側: S50MC-C(MARK7), S50MC

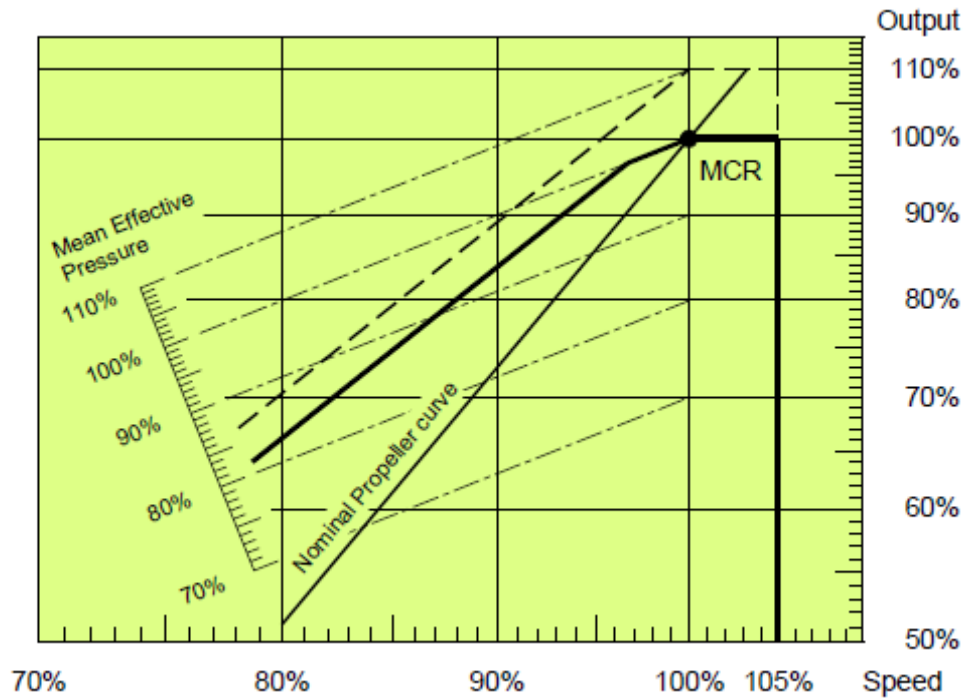
任意の点を MCR として選ぶことができ、船舶の計画にあたって最も適した出力及び回転速度の組合せを得ることができます。



Load Diagram

The limit for continuous running of engine is shown by the thick line in below load diagram for a chosen layout point (output and speed) as the MCR point.

MCR 点として選定されたLayout点(出力及び回転速度)について、下記の Load Diagramの太線の範囲内で、機関を連続運転することが可能です。



Engine Power

The engine power figures in the catalog remain valid up to “tropical conditions” at sea level, i.e.:

- Blower inlet temperature : 45
- Sea water inlet temperature : 32
- Atmospheric pressure : 1,000 hPa

本カタログに記載している機関出力は、下記の“熱帯条件”においても有効となります。

- プロア入口温度 : 45
- 海水入口温度 : 32
- 大気圧 : 1,000 hPa

■ Specific Fuel Oil Consumption

The SFOC figures stated in this catalog are based on the following condition.
(ISO 3046/1-1995)

Tolerance margin : refer the below “Emission Control”

- Fuel oil lower calorific value : 42,700 kJ/kg
- Blower inlet temperature : 25
- Charger air coolant temperature : 25
- Atmospheric pressure : 1,000 hPa

本カタログに記載している燃料消費率は、下記の条件によるものです。
(ISO 3046/1-1995)

燃料消費率公差は、下記 “Emission Control” 参照

- 燃料油低発熱量 : 42,700 kJ/kg
- プロア入口温度 : 25
- 掃気冷却水入口温度 : 25
- 大気圧 : 1,000 hPa

■ Emission Control

All engines in this catalog has option of modifying and adjusting to comply with the Regulation 13 of Annex VI - Regulation for Prevention of Air Pollution from ships, of MARPOL 73/78.

The fuel oil consumption has described the value when the engine is adjusted to IMO NO_x exhaust emission regulation. And, the fuel oil consumption tolerance margin applies “+3%” that has been used so far.

本カタログに記載している機関は、MARPOL 73/78 附属書VI - 船舶からの大気汚染防止のための規則 - 第13規則に適合するよう調整可能です。

燃料消費率は、IMO NO_x 排ガス規制に適合させるために機関調整を行った場合の値を記載しています。また、燃料消費率公差は、従来用いられてきた“+3%”を適用しています。

Specific Cylinder Oil Consumption

The figures given in this catalog represent values based on research as well as service experience.

For the MC/MC-C type engine, the cylinder lubricating system can be either the conventional mechanical lubricators (standard scope of supply) or electronically controlled Alpha lubricator system (option).

For the ME-B type engines, the Alpha lubricator system is equipped as standard scope of supply.

The Basic Setting of cylinder oil feed rate for the Alpha lubricating system can be reduced lower than that of conventional mechanical lubricators. Furthermore, the Alpha lubricator system regulates the cylinder oil feed rate at partial load proportionally to MEP.

本カタログに記載しているシリンダ潤滑油消費量は、研究所及び海上実績を基にした値としています。

MC/MC-C形機関のシリンダ注油システムは、従来の機械式注油器(標準装備)、あるいは電子制御式アルファ注油システム(オプション)となります。ME-B形機関には、電子制御式アルファ注油システムが標準装備されます。

アルファ注油システムによって実現されるシリンダ注油率のBasic Settingは、機械式注油器のそれに比べて低くすることが可能です。さらに、アルファ注油システムは、部分負荷における注油率をMEPに比例して制御しています。

MC, MC-C engines with Mechanical lubricator (guidance value)

	S-MC / S-MC-C	L-MC
Basic Setting	1.5 g/kW·h	1.2 g/kW·h
Minimum Feed Rate	0.95 g/kW·h	0.8 g/kW·h

ME-B, MC, MC-C engines with Alpha lubricator system (guidance value)

	S-ME-B	S-MC / MC-C / L-MC
Basic Setting	1.53 g/kW·h	1.1 g/kW·h
Minimum Feed Rate	0.7 g/kW·h	0.8 g/kW·h

As the another control regulation for cylinder feed rate, the Alpha ACC (Adaptive Cylinder oil Control) can be selected, where the cylinder oil feed rate is adjusted depending on sulphur percentage (S%) in the fuel oil. Furthermore, the cylinder oil feed rate at partial load is regulated proportionally to engine load.

アルファ注油器における別の注油率設定方法として、アルファACC (Adaptive Cylinder oil Control) を選択した場合、シリンダ注油率は、燃料油中に含まれる硫黄分含有量 (S%) に応じて調整されます。また、部分負荷における注油率は、LOAD に比例して制御されます。

(guidance value)

Feed Rate (TBN 40)	$0.34 \times 70/40 \times S\% \text{ g/kW}\cdot\text{h}$
Feed Rate (TBN 70)	$0.34 \times S\% \text{ g/kW}\cdot\text{h}$
Minimum Feed Rate	0.7 g/kW·h

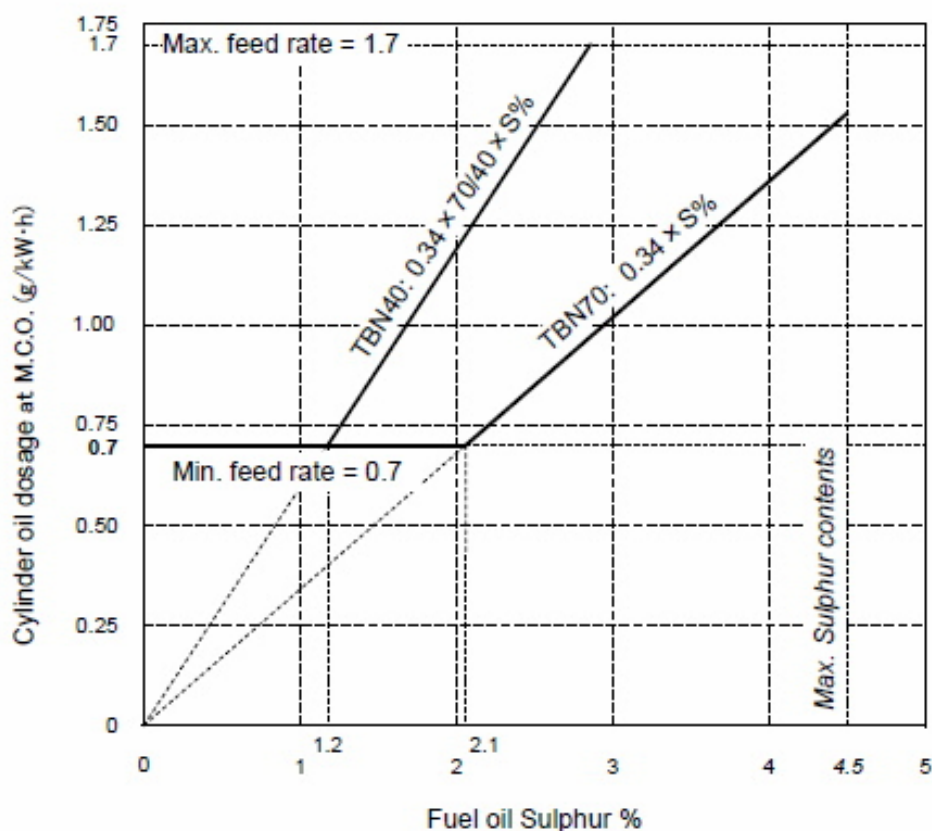
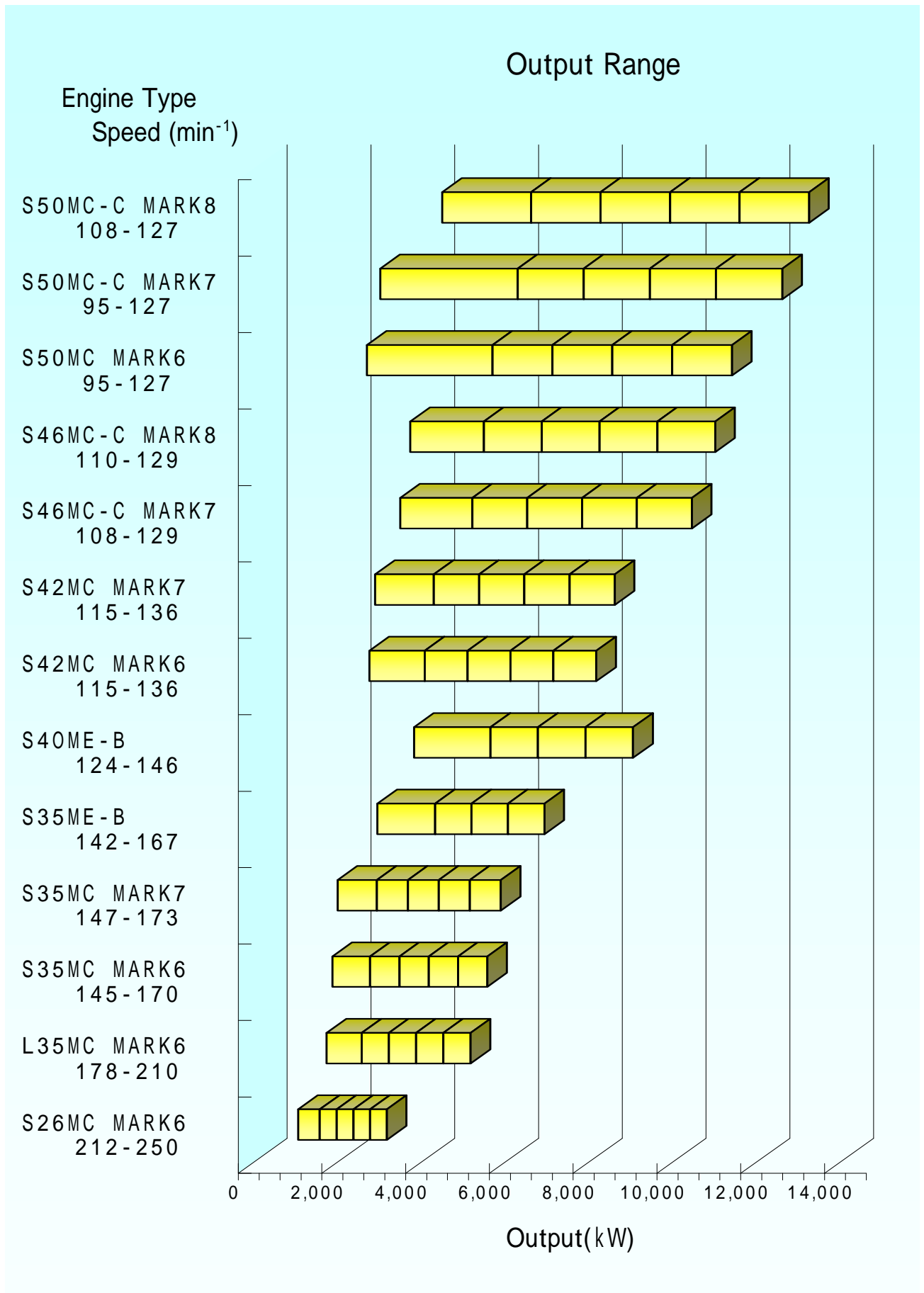


Fig. 1 Sulphur content and Basic Feed Rate at M.C.O.

Output Range



MEMO

S50MC-C Mark8

Bore : 500 mm

Stroke : 2000 mm

Layout points		L1	L2	L3	L4
Speed	min ⁻¹	127	127	108	108
mep	MPa	2.00	1.60	2.00	1.60
Cylinder	Power				
4S50MC - C	kW	6,640	5,320	5,640	4,520
	BHP	9,040			
5S50MC - C	kW	8,300	6,650	7,050	5,650
	BHP	11,300			
6S50MC - C	kW	9,960	7,980	8,460	6,780
	BHP	13,560			
7S50MC - C	kW	11,620	9,310	9,870	7,910
	BHP	15,820			
8S50MC - C	kW	13,280	10,640	11,280	9,040
	BHP	18,080			

Specific Fuel Oil Consumption (SFOC)

g/kW·h	174.3	167.4	174.3	167.4
g/BHP·h	128.4			

Lubricating and Cylinder Oil Consumption

Lubricating oil	4 - 5 kg/cyl.·day	(guidance value)
Cylinder oil	refer item "Specific Cylinder Oil Consumption"	

Main Dimensions and Masses

Cyl. No.	4	5	6	7	8
Dry Mass ton	155	181	207	238	273
L mm	4,739	5,589	6,439	7,289	8,139
A mm	8,583	8,583	8,583	8,583	8,583
B mm	7,495	7,495	7,495	7,495	7,495
C mm	1,088	1,088	1,088	1,088	1,088
D mm	3,150	3,150	3,150	3,150	3,150
E mm	850	850	850	850	850
H1 mm	9,450	9,450	9,450	9,450	9,450
H2 mm	8,900	8,900	8,900	8,900	8,900

S50MC-C Mark7

Bore : 500 mm

Stroke : 2000 mm

Layout points		L1	L2	L3	L4
Speed	min ⁻¹	127	127	95	95
mep	MPa	1.90	1.22	1.90	1.22
Cylinder	Power				
4S50MC - C	kW	6,320	4,040	4,720	3,040
	BHP	8,600			
5S50MC - C	kW	7,900	5,050	5,900	3,800
	BHP	10,750			
6S50MC - C	kW	9,480	6,060	7,080	4,560
	BHP	12,900			
7S50MC - C	kW	11,060	7,070	8,260	5,320
	BHP	15,050			
8S50MC - C	kW	12,640	8,080	9,440	6,080
	BHP	17,200			

Specific Fuel Oil Consumption (SFOC)

g/kW·h	174.3	162.7	174.3	162.7
g/BHP·h	128.4			

Lubricating and Cylinder Oil Consumption

Lubricating oil	4 - 5 kg/cyl.·day	(guidance value)
Cylinder oil	refer item "Specific Cylinder Oil Consumption"	

Main Dimensions and Masses

Cyl. No	4	5	6	7	8
Dry Mass ton	155	181	207	238	273
L mm	4,739	5,589	6,439	7,289	8,139
A mm	8,583	8,583	8,583	8,583	8,583
B mm	7,495	7,495	7,495	7,495	7,495
C mm	1,088	1,088	1,088	1,088	1,088
D mm	3,150	3,150	3,150	3,150	3,150
E mm	850	850	850	850	850
H1 mm	9,450	9,450	9,450	9,450	9,450
H2 mm	8,900	8,900	8,900	8,900	8,900



S50MC Mark6

Bore : 500 mm

Stroke : 1910 mm

Layout points		L1	L2	L3	L4
Speed	min ⁻¹	127	127	95	95
mep	MPa	1.80	1.15	1.80	1.15
Cylinder	Power				
4S50MC	kW	5,720	3,640	4,280	2,720
	BHP	7,760			
5S50MC	kW	7,150	4,550	5,350	3,400
	BHP	9,700			
6S50MC	kW	8,580	5,460	6,420	4,080
	BHP	11,640			
7S50MC	kW	10,010	6,370	7,490	4,760
	BHP	13,580			
8S50MC	kW	11,440	7,280	8,560	5,440
	BHP	15,520			

Specific Fuel Oil Consumption (SFOC)

g/kW·h	174.3	162.7	174.3	162.7
g/BHP·h	128.4			

Lubricating and Cylinder Oil Consumption

Lubricating oil	4 - 5 kg/cyl.·day	(guidance value)
Cylinder oil	refer item "Specific Cylinder Oil Consumption"	

Main Dimensions and Masses

Cyl. No	4	5	6	7	8
Dry Mass ton	171	195	225	255	288
L mm	5,336	6,226	7,116	8,006	8,896
A mm	8,481	8,481	8,481	8,481	8,481
B mm	7,396	7,396	7,396	7,396	7,396
C mm	1,085	1,085	1,085	1,085	1,085
D mm	2,950	2,950	2,950	2,950	2,950
E mm	890	890	890	890	890
H1 mm	9,240	9,240	9,240	9,240	9,240
H2 mm	8,760	8,760	8,760	8,760	8,760

S46MC-C Mark8

Bore : 460 mm

Stroke : 1932 mm

Layout points		L1	L2	L3	L4
Speed	min ⁻¹	129	129	110	110
mep	MPa	2.00	1.60	2.00	1.60
Cylinder	Power				
4S46MC - C	kW	5,520	4,420	4,700	3,760
	BHP	7,520			
5S46MC - C	kW	6,900	5,525	5,875	4,700
	BHP	9,400			
6S46MC - C	kW	8,280	6,630	7,050	5,640
	BHP	11,280			
7S46MC - C	kW	9,660	7,735	8,225	6,580
	BHP	13,160			
8S46MC - C	kW	11,040	8,840	9,400	7,520
	BHP	15,040			

Specific Fuel Oil Consumption (SFOC)

g/kWh	174.3	168.8	174.3	168.8
g/BHP·h	128.4			

Lubricating and Cylinder Oil Consumption

Lubricating oil	3.5 - 4.5 kg/cyl.·day	(guidance value)
Cylinder oil	refer item "Specific Cylinder Oil Consumption"	

Main Dimensions and Masses

Cyl. No	4	5	6	7	8
Dry Mass ton	133	153	171	197	217
L mm	4,364	5,146	5,928	6,710	7,492
A mm	8,117	8,117	8,117	8,117	8,117
B mm	7,131	7,131	7,131	7,131	7,131
C mm	986	986	986	986	986
D mm	2,924	2,924	2,924	2,924	2,924
E mm	782	782	782	782	782
H1 mm	8,860	8,860	8,860	8,860	8,860
H2 mm	8,520	8,520	8,520	8,520	8,520



S46MC-C Mark7

Bore : 460 mm

Stroke : 1932 mm

Layout points		L1	L2	L3	L4
Speed	min ⁻¹	129	129	108	108
mep	MPa	1.90	1.52	1.90	1.52
Cylinder	Power				
4S46MC - C	kW	5,240	4,200	4,400	3,520
	BHP	7,140			
5S46MC - C	kW	6,550	5,250	5,500	4,400
	BHP	8,925			
6S46MC - C	kW	7,860	6,300	6,600	5,280
	BHP	10,710			
7S46MC - C	kW	9,170	7,350	7,700	6,160
	BHP	12,495			
8S46MC - C	kW	10,480	8,400	8,800	7,040
	BHP	14,280			

Specific Fuel Oil Consumption (SFOC)

g/kW·h	174.3	168.8	174.3	168.8
g/BHP·h	128.4			

Lubricating and Cylinder Oil Consumption

Lubricating oil	3.5 - 4.5 kg/cyl.·day	(guidance value)		
Cylinder oil	refer item "Specific Cylinder Oil Consumption"			

Main Dimensions and Masses

Cyl. No	4	5	6	7	8
Dry Mass ton	133	153	171	197	217
L mm	4,364	5,146	5,928	6,710	7,492
A mm	8,117	8,117	8,117	8,117	8,117
B mm	7,131	7,131	7,131	7,131	7,131
C mm	986	986	986	986	986
D mm	2,924	2,924	2,924	2,924	2,924
E mm	782	782	782	782	782
H1 mm	8,860	8,860	8,860	8,860	8,860
H2 mm	8,520	8,520	8,520	8,520	8,520

S42MC Mark7

Bore : 420 mm

Stroke : 1764 mm

Layout points		L1	L2	L3	L4
Speed	min ⁻¹	136	136	115	115
mep	MPa	1.95	1.56	1.95	1.56
Cylinder	Power				
4S42MC	kW	4,320	3,460	3,660	2,920
	BHP	5,880			
5S42MC	kW	5,400	4,325	4,575	3,650
	BHP	7,350			
6S42MC	kW	6,480	5,190	5,490	4,380
	BHP	8,820			
7S42MC	kW	7,560	6,055	6,405	5,110
	BHP	10,290			
8S42MC	kW	8,640	6,920	7,320	5,840
	BHP	11,760			

Specific Fuel Oil Consumption (SFOC)

g/kW·h	177.0	171.6	177.0	171.6
g/BHP·h	130.0			

Lubricating and Cylinder Oil Consumption

Lubricating oil	3 - 4 kg/cyl.·day	(guidance value)
Cylinder oil	refer item "Specific Cylinder Oil Consumption"	

Main Dimensions and Masses

Cyl. No	4	5	6	7	8
Dry Mass ton	109	125	143	160	176
L mm	4,240	4,988	5,736	6,484	7,232
A mm	7,589	7,589	7,589	7,589	7,589
B mm	6,689	6,689	6,689	6,689	6,689
C mm	900	900	900	900	900
D mm	2,670	2,670	2,670	2,670	2,670
E mm	748	748	748	748	748
H1 mm	8,255	8,255	8,255	8,255	8,255
H2 mm	7,880	7,880	7,880	7,880	7,880



S42MC Mark6

Bore : 420 mm

Stroke : 1764 mm

Layout points		L1	L2	L3	L4
Speed	min ⁻¹	136	136	115	115
mep	MPa	1.85	1.48	1.85	1.48
Cylinder	Power				
4S42MC	kW	4,100	3,280	3,480	2,780
	BHP	5,580			
5S42MC	kW	5,125	4,100	4,350	3,475
	BHP	6,975			
6S42MC	kW	6,150	4,920	5,220	4,170
	BHP	8,370			
7S42MC	kW	7,175	5,740	6,090	4,865
	BHP	9,765			
8S42MC	kW	8,200	6,560	6,960	5,560
	BHP	11,160			

Specific Fuel Oil Consumption (SFOC)

g/kW·h	174.0	168.6	174.0	168.6
g/BHP·h	128.0			

Lubricating and Cylinder Oil Consumption

Lubricating oil	3 - 4 kg/cyl.·day	(guidance value)
Cylinder oil	refer item "Specific Cylinder Oil Consumption"	

Main Dimensions and Masses

Cyl. No	4	5	6	7	8
Dry Mass ton	109	125	143	160	176
L mm	4,240	4,988	5,736	6,484	7,232
A mm	7,589	7,589	7,589	7,589	7,589
B mm	6,689	6,689	6,689	6,689	6,689
C mm	900	900	900	900	900
D mm	2,670	2,670	2,670	2,670	2,670
E mm	748	748	748	748	748
H1 mm	8,255	8,255	8,255	8,255	8,255
H2 mm	7,880	7,880	7,880	7,880	7,880

S40ME-B

Bore : 400 mm

Stroke : 1770 mm

Layout points		L1	L2	L3	L4
Speed	min ⁻¹	146	146	124	124
mep	MPa	2.10	1.68	2.10	1,68
Cylinder	Power				
5S40ME - B	kW	5,675	4,550	4,825	3,850
	BHP	7,725			
6S40ME - B	kW	6,810	5,460	5,790	4,620
	BHP	9,270			
7S40ME - B	kW	7,945	6,370	6,755	5,390
	BHP	10,815			
8S40ME - B	kW	9,080	7,280	7,720	6,160
	BHP	12,360			

Specific Fuel Oil Consumption (SFOC)

g/kW·h	178.5	173.4	178.5	173.4
g/BHP·h	131.3			

Lubricating and Cylinder Oil Consumption

Lubricating oil	3 - 4 kg/cyl.·day	(guidance value)
Cylinder oil	refer item "Specific Cylinder Oil Consumption"	

Main Dimensions and Masses

Cyl. No		5	6	7	8
Dry Mass ton		111	127	142	156
L mm		5,000	5,700	6,400	7,100
A mm		7,376	7,376	7,376	7,376
B mm		6,426	6,426	6,426	6,426
C mm		950	950	950	950
D mm		2,590	2,590	2,590	2,590
E mm		700	700	700	700
H1 mm		8,100	8,100	8,100	8,100
H2 mm		7,700	7,700	7,700	7,700



S35ME-B

Bore : 350 mm

Stroke : 1550 mm

Layout points		L1	L2	L3	L4
Speed	min ⁻¹	167	167	142	142
mep	MPa	2.10	1.68	2.10	1.68
Cylinder	Power				
5S35ME-B	kW	4,350	3,475	3,700	2,975
	BHP	5,925			
6S35ME-B	kW	5,220	4,170	4,440	3,570
	BHP	7,110			
7S35ME-B	kW	6,090	4,865	5,180	4,165
	BHP	8,295			
8S35ME-B	kW	6,960	5,560	5,920	4,760
	BHP	9,480			

Specific Fuel Oil Consumption (SFOC)

g/kW·h	179.5	174.4	179.5	174.4
g/BHP·h	132.0			

Lubricating and Cylinder Oil Consumption

Lubricating oil	2 - 3 kg/cyl.·day	(guidance value)
Cylinder oil	refer item "Specific Cylinder Oil Consumption"	

Main Dimensions and Masses

Cyl. No		5	6	7	8
Dry Mass ton		70	81	91	100
L mm		4,378	4,990	5,602	6,214
A mm		6,454	6,454	6,454	6,454
B mm		5,624	5,624	5,624	5,624
C mm		830	830	830	830
D mm		2,265	2,265	2,265	2,265
E mm		612	612	612	612
H1 mm		7,080	7,080	7,080	7,080
H2 mm		6,710	6,710	6,710	6,710

S35MC Mark7

Bore : 350 mm

Stroke : 1400 mm

Layout points		L1	L2	L3	L4
Speed	min ⁻¹	173	173	147	147
mep	MPa	1.91	1.53	1.91	1.53
Cylinder	Power				
4S35MC	kW	2,960	2,380	2,520	2,020
	BHP	4,040			
5S35MC	kW	3,700	2,975	3,150	2,525
	BHP	5,050			
6S35MC	kW	4,440	3,570	3,780	3,030
	BHP	6,060			
7S35MC	kW	5,180	4,165	4,410	3,535
	BHP	7,070			
8S35MC	kW	5,920	4,760	5,040	4,040
	BHP	8,080			

Specific Fuel Oil Consumption (SFOC)

g/kW·h	181.5	176.1	181.5	176.1
g/BHP·h	133.5			

Lubricating and Cylinder Oil Consumption

Lubricating oil	2 - 3 kg/cyl.·day	(guidance value)
Cylinder oil	refer item "Specific Cylinder Oil Consumption"	

Main Dimensions and Masses

Cyl. No	4	5	6	7	8
Dry Mass ton	57	65	75	84	93
L mm	3,520	4,120	4,720	5,320	5,920
A mm	6,053	6,053	6,053	6,053	6,053
B mm	5,403	5,403	5,403	5,403	5,403
C mm	650	650	650	650	650
D mm	2,200	2,200	2,200	2,200	2,200
E mm	600	600	600	600	600
H1 mm	6,725	6,725	6,725	6,725	6,725
H2 mm	6,400	6,400	6,400	6,400	6,400



S35MC Mark6

Bore : 350 mm

Stroke : 1400 mm

Layout points		L1	L2	L3	L4
Speed	min ⁻¹	170	170	145	145
mep	MPa	1.84	1.47	1.84	1.47
Cylinder	Power				
4S35MC	kW	2,800	2,240	2,380	1,900
	BHP	3,800			
5S35MC	kW	3,500	2,800	2,975	2,375
	BHP	4,750			
6S35MC	kW	4,200	3,360	3,570	2,850
	BHP	5,700			
7S35MC	kW	4,900	3,920	4,165	3,325
	BHP	6,650			
8S35MC	kW	5,600	4,480	4,760	3,800
	BHP	7,600			

Specific Fuel Oil Consumption (SFOC)

g/kW·h	178.4	172.9	178.4	172.9
g/BHP·h	131.5			

Lubricating and Cylinder Oil Consumption

Lubricating oil	2 - 3 kg/cyl.·day	(guidance value)
Cylinder oil	refer item "Specific Cylinder Oil Consumption"	

Main Dimensions and Masses

Cyl. No	4	5	6	7	8
Dry Mass ton	57	65	75	84	93
L mm	3,520	4,120	4,720	5,320	5,920
A mm	6,053	6,053	6,053	6,053	6,053
B mm	5,403	5,403	5,403	5,403	5,403
C mm	650	650	650	650	650
D mm	2,200	2,200	2,200	2,200	2,200
E mm	600	600	600	600	600
H1 mm	6,725	6,725	6,725	6,725	6,725
H2 mm	6,400	6,400	6,400	6,400	6,400

L35MC Mark6

Bore : 350 mm

Stroke : 1050 mm

Layout points		L1	L2	L3	L4
Speed	min ⁻¹	210	210	178	178
mep	MPa	1.84	1.47	1.84	1.47
Cylinder	Power				
4L35MC	kW	2,600	2,080	2,200	1,760
	BHP	3,540			
5L35MC	kW	3,250	2,600	2,750	2,200
	BHP	4,425			
6L35MC	kW	3,900	3,120	3,300	2,640
	BHP	5,310			
7L35MC	kW	4,550	3,640	3,850	3,080
	BHP	6,195			
8L35MC	kW	5,200	4,160	4,400	3,520
	BHP	7,080			

Specific Fuel Oil Consumption (SFOC)

g/kW·h	177.0	171.6	177.0	171.6
g/BHP·h	130.0			

Lubricating and Cylinder Oil Consumption

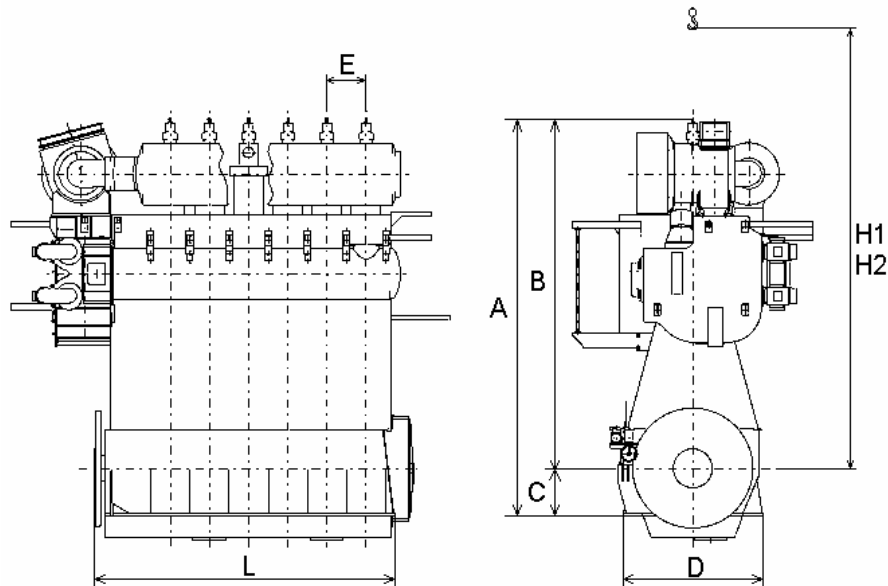
Lubricating oil	2 - 3 kg/cyl.·day	(guidance value)
Cylinder oil	refer item "Specific Cylinder Oil Consumption"	

Main Dimensions and Masses

Cyl. No	4	5	6	7	8
Dry Mass ton	50	58	67	75	83
L mm	3,485	4,085	4,685	5,285	5,885
A mm	5,061	5,061	5,061	5,061	5,061
B mm	4,511	4,511	4,511	4,511	4,511
C mm	550	550	550	550	550
D mm	1,980	1,980	1,980	1,980	1,980
E mm	600	600	600	600	600
H1 mm	5,445	5,445	5,445	5,445	5,445
H2 mm	5,125	5,125	5,125	5,125	5,125



■ Main Dimension and Dry Masses



Main dimensions stated in this catalog are given in mm, for guidance only.

Dismantling height:

H1: Normal vertical lift

H2: Vertical lift between cylinder cover studs

The masses are stated for engines with standard turbocharger, a standard turning wheel and can vary up to 10% depending on the design and options chosen such as moment compensators, tuning wheel, etc.

Note:

For S50MC-C, S50MC, S46MC-C engines, standard turbocharger arrangement is AFT side, however, REAR side arrangement is also possible.

本カタログに記載している機関の主要寸法(mm)は、ガイダンス寸法です。

開放高さ寸法は:

H1: 通常垂直吊り高さ

H2: 垂直吊り高さ(シリンダカバー締付用スタッド間)

機関重量は、標準過給機、標準回転勢車を装備した場合におけるものであり、モーメントコンペンサータ、チューニングホイール等といったオプション項目や設計点により、10%程度増量することがあります。

注記:

S50MC-C, S50MC, S46MC-C機関の過給機は、AFT側が標準配置ですが、REAR側に配置することも可能です。

MEMO



本 社 〒760-0065
香川県高松市朝日町4丁目1 - 1
TEL : 087-821-5501 FAX : 087-821-5510
<http://www.makita-corp.com/>
E-mail : webmaster@makita-corp.com

東京事務所 〒105-0004
東京都港区新橋5丁目5 - 1 (IMC ビル新橋5F)
TEL : 03-6430-9393 FAX : 03-6430-9391

大阪営業所 〒532-0011
大阪府大阪市淀川区西中島1丁目9 - 20 (新中島ビル)
TEL : 06-6307-8002 FAX : 06-6307-8004

Head Office Asahi-machi 4-1-1, Takamatsu, kagawa 760-0065 Japan
TEL : +81-87-821-5501 FAX : +81-87-821-5510
<http://www.makita-corp.com/>
E-mail : webmaster@makita-corp.com

Tokyo Branch IMC-Bldg., Shinbashi5F, Shinbashi 5-5-1, Minato-ku, Tokyo 105-0004, Japan
TEL : +81-3-6430-9393 FAX : +81-3-6430-9391

Osaka Office Shin-Nakajima Bldg., Nishinakajima 1-9-20 Yodogawa-ku, Osaka 532-0011, Japan
TEL : +81-6-6307-8002 FAX : +81-6-6307-8004

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