

自主品牌系列四冲程推进主机

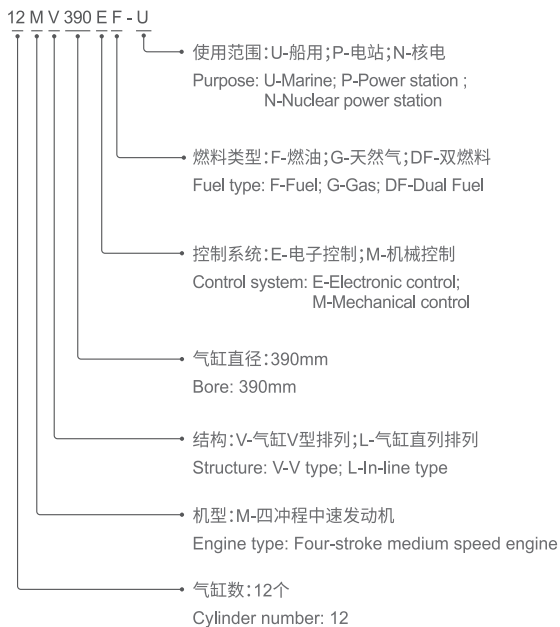
M390系列四冲程发动机

M390 Four-stroke Propulsion Engines



发动机型号说明

Engine type designation



M390系列四冲程发动机

Four stroke engine

M390系列四冲程发动机能满足大型陆用电站, 核电应急发电机组, 1至5万吨级近海、内河船舶, 大型工程船, 海工平台, LNG船, 豪华邮轮等高端重大装备的动力需求。

M390 series four-stroke engine can meet the power needs of large power stations, nuclear emergency generating sets, 10,000-50,000-ton offshore, inland river ships, large engineering ships, offshore engineering platforms, LNG ships, luxury cruises and other high-end major equipment.

M390中速柴油机满足IMO Tier II 排放标准(应用SCR装置可达到Tier III), 具有高技术指标、高功率密度、低排放、低油耗、可靠性高、振动及噪声低、大修期长、维修便捷等特点。

M390 medium-speed diesel engines are compliant with IMO Tier II emissions standards (Tier III can be achieved with application of SCR device); It has the characteristics of high technical index, high power density, low emission, low fuel consumption, high reliability, low vibration and noise, long overhaul period and convenient maintenance.

超过60年的船舶动力装置研发、制造与经验。

There is inheritance of over 60 years of Marine power plant research and development, manufacturing and experience.

该系列柴油机发动机设计有常规机械喷油、高压共轨喷油以及双燃料三种机型, 可满足客户多种要求。

Three types of engine are designed in those series, including the Conventional mechanical fuel injection(M) engine, the Electronic control common rail(E) engine and Dual fuel (DF) engine, which may satisfy the variety of requirements from customers.

◉ ML390EF-U 直列型共轨版

缸径Bore:390mm, 冲程Stroke:550mm

Speed MEP	600r/min 25.9bar
5ML390EF	4250kW
6ML390EF	5100kW
7ML390EF	5950kW
8ML390EF	6800kW
9ML390EF	7650kW

燃油消耗率 Specific Fuel Oil Consumption (SFOC) to ISO condition*

MCR	100%
ML390EF	179 g/kWh +5%

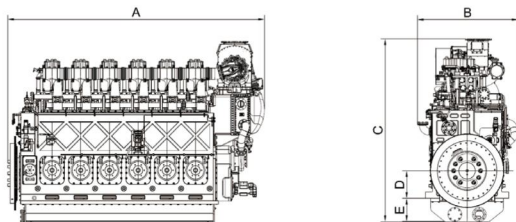
滑油消耗率 Specific lube oil consumption 0.8g/kWh

尺寸 Dimension*

Cyl.No.		5	6	7	8	9
A	mm	5560	6260	6960	7660	8360
B	mm	2480	2480	2480	2480	2480
C	mm	4570	4570	4570	4570	4570
D	mm	675	675	675	675	675
E	mm	500	500	500	500	500
Dry mass	t	64	71	79	86	95

对于双主机装置, 柴油机中心线最小间距为3700mm

Minimum centerline distance for twin engine installation : 3700mm



◉ MV390EF-U V型共轨版

缸径Bore:390mm, 冲程Stroke:550mm

Speed MEP	600r/min 25.9bar
10MV390EF	8500kW
12MV390EF	10200kW
14MV390EF	11900kW
16MV390EF	13600kW
18MV390EF	15300kW
20MV390EF	17000kW

燃油消耗率 Specific Fuel Oil Consumption (SFOC) to ISO condition*

MCR	100%
MV390EF	179 g/kWh +5%

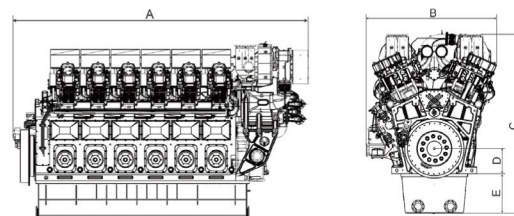
滑油消耗率 Specific lube oil consumption 0.8g/kWh

尺寸 Dimension*

Cyl.No.		10	12	14	16	18	20
A	mm	7110	7950	8790	9630	10470	11310
B	mm	3450	3450	3450	3450	3450	3450
C	mm	4450	4450	4450	4450	4450	4450
D	mm	675	675	675	675	675	675
E	mm	570	570	570	570	570	570
Dry mass	t	97	110	123	136	149	163

对于双主机装置, 柴油机中心线最小间距为4000mm

Minimum centerline distance for twin engine installation : 4000mm



ML390MF-U 直列型机械版

缸径Bore:390mm, 冲程Stroke:550mm

Speed MEP	600r/min 25.9bar
5ML390MF	4250kW
6ML390MF	5100kW
7ML390MF	5950kW
8ML390MF	6800kW
9ML390EF	7650kW

燃油消耗率 Specific Fuel Oil Consumption (SFOC) to ISO condition*

MCR	100%
ML390MF	184 g/kWh +5%

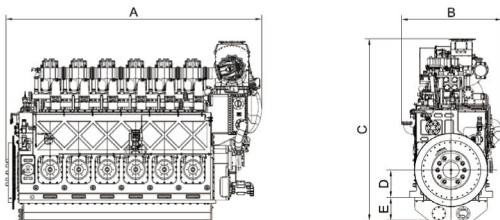
滑油消耗率 Specific lube oil consumption 0.8g/kWh

尺寸 Dimension*

Cyl.No.		5	6	7	8	9
A	mm	5560	6260	6960	7660	8360
B	mm	2480	2480	2480	2480	2480
C	mm	4570	4570	4570	4570	4570
D	mm	675	675	675	675	675
E	mm	500	500	500	500	500
Dry mass	t	64	71	79	86	95

对于双主机装置, 柴油机中心线最小间距为3700mm

Minimum centerline distance for twin engine installation : 3700mm



MV390MF-U V型机械版

缸径Bore:390mm, 冲程Stroke:550mm

Speed MEP	600r/min 25.9bar
10MV390MF	8500kW
12MV390MF	10200kW
14MV390MF	11900kW
16MV390MF	13600kW
18MV390MF	15300kW
20MV390MF	17000kW

燃油消耗率 Specific Fuel Oil Consumption (SFOC) to ISO condition*

MCR	100%
MV390MF	184 g/kWh +5%

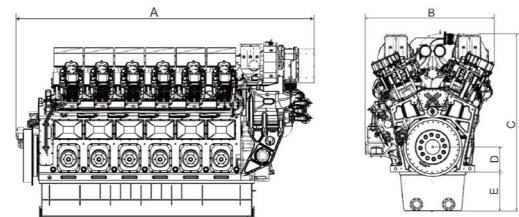
滑油消耗率 Specific lube oil consumption 0.8g/kWh

尺寸 Dimension*

Cyl.No.		10	12	14	16	18	20
A	mm	7110	7950	8790	9630	10470	11310
B	mm	3450	3450	3450	3450	3450	3450
C	mm	4450	4450	4450	4450	4450	4450
D	mm	675	675	675	675	675	675
E	mm	570	570	570	570	570	570
Dry mass	t	97	110	123	136	149	163

对于双主机装置, 柴油机中心线最小间距为4000mm

Minimum centerline distance for twin engine installation : 4000mm



◦ ML390DF-U 直列型双燃料版

缸径Bore:390mm, 冲程Stroke:550mm

Speed MEP	600r/min 19.8bar
5ML390DF	3250kW
6ML390DF	3900kW
7ML390DF	4550kW
8ML390DF	5200kW
9ML390DF	5850kW

燃油消耗率 Specific Fuel Oil Consumption (SFOC) to ISO condition*

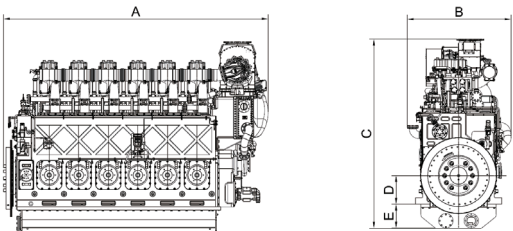
MCR	100%(fuel oil)	100%(fuel gas)
ML390DF	186 g/kWh+5%	7900 kJ/kWh

滑油消耗率 Specific lube oil consumption 0.8g/kWh

尺寸 Dimension*

Cyl.No.		5	6	7	8	9
A	mm	5560	6260	6960	7660	8360
B	mm	2480	2480	2480	2480	2480
C	mm	4570	4570	4570	4570	4570
D	mm	675	675	675	675	675
E	mm	500	500	500	500	500
Dry mass	t	64	71	79	86	95

对于双主机装置, 柴油机中心线最小间距为3700mm
Minimum centerline distance for twin engine installation : 3700mm



◦ MV390DF-U V型双燃料版

缸径Bore:390mm, 冲程Stroke:550mm

Speed MEP	600r/min 19.8bar
10MV390DF	6500kW
12MV390DF	7800kW
14MV390DF	9100kW
16MV390DF	10400kW
18MV390DF	11700kW
20MV390DF	13000kW

燃油消耗率 Specific Fuel Oil Consumption (SFOC) to ISO condition*

MCR	100%(fuel oil)	100%(fuel gas)
MV390DF	186 g/kWh+5%	7900 KJ/kWh

滑油消耗率 Specific lube oil consumption 0.8g/kWh

尺寸 Dimension*

Cyl.No.		10	12	14	16	18	20
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B	mm	3450	3450	3450	3450	3450	3450
C	mm	4450	4450	4450	4450	4450	4450
D	mm	675	675	675	675	675	675
E	mm	570	570	570	570	570	570
Dry mass	t	97	110	123	136	149	163

对于双主机装置, 柴油机中心线最小间距为4000mm
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