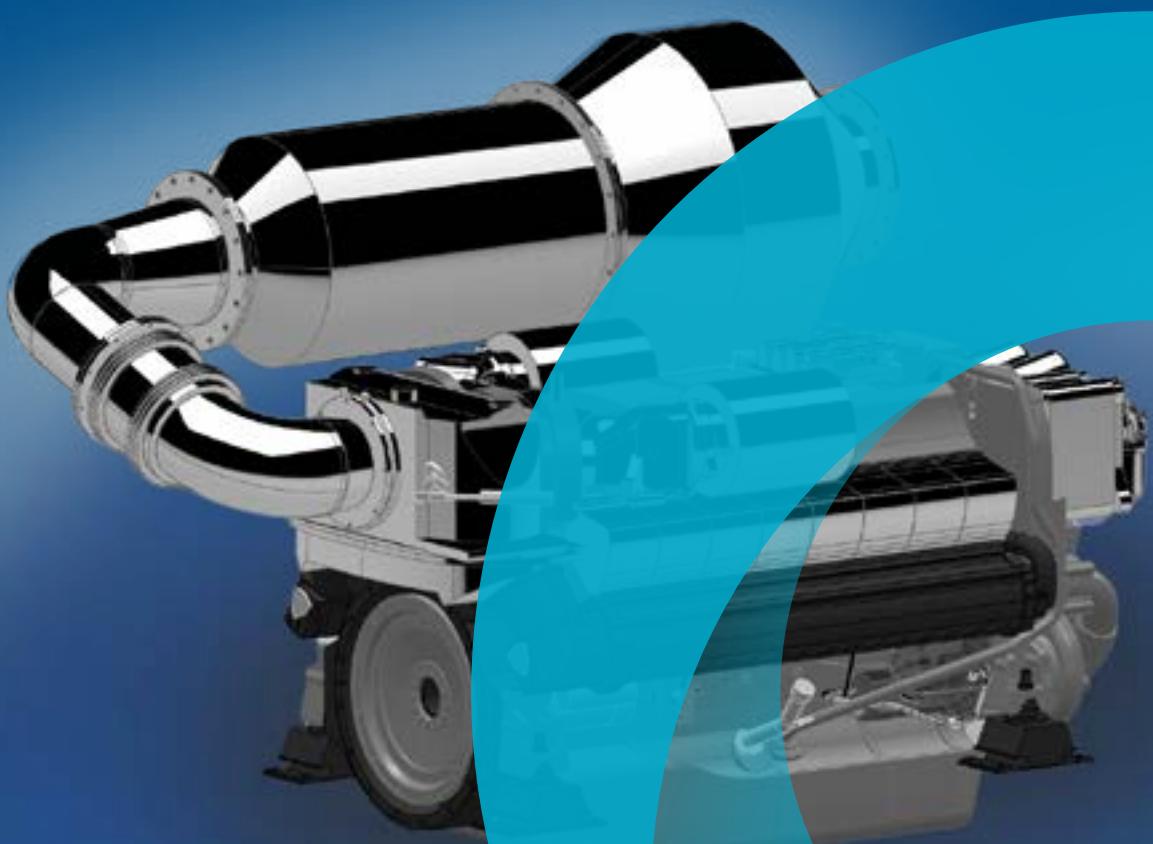




HØJTYDENDE FREMDRIFTSSYSTEMER

BOS Power S2000 M72 IMO Tier III



BROCHURE

VEJEN TIL LAVE UDLEDNINGER

BOS Power S2000 M72 IMO Tier III-motoren er en kompakt, let dieselmotor, baseret på den markedsledende **mtu** S2000-motorserie.

I kombination med et SCR-system opfylder den emissionsniveauerne i henhold til IMO Tier III og er certificeret af DNV til at opfylde NOx-reduktionskravene for drift i ECA-områder.



FOTO: Magne Lanåker

FLEKSIBLE LØSNINGER

Systemet er designet til små maskinrum og er let og kompakt med en fleksibel SCR-konfiguration, der muliggør optimal udnyttelse af pladsen.

Motorerne har et lavt brændstofferbrug i hele ydelsesområdet.

Servicekomponenter er let tilgængelige for øget installations- og vedligeholdelsesvenlighed.



Fleksibelt design tilpasset fartøjet



Kompakt og let design



Omfattende serviceydelser og value care-serviceaftaler

VELEGNET

mtu Series 2000 M72 common rail-motorerne er beregnet til mellem tung drift (1B) og har fremragende accelerationsegenskaber og et højt moment ved lav belastning.

Med deres kompakte og kraftfulde design er 1B-motorerne særligt velegnede til hurtigfærger, SAR-både, patruljebåde, vindmølle-servicefartøjer og mandskabsfartøjer.



Høj
driftseffektivitet



Fremragende
accelerationsegenskaber

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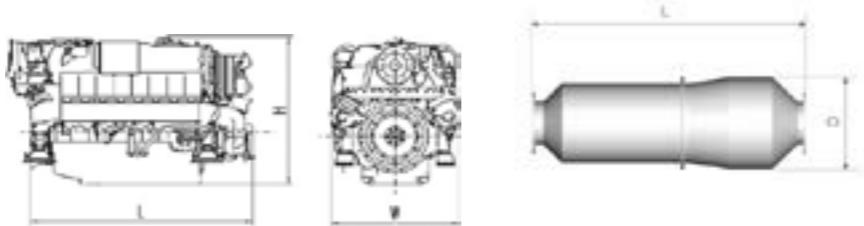
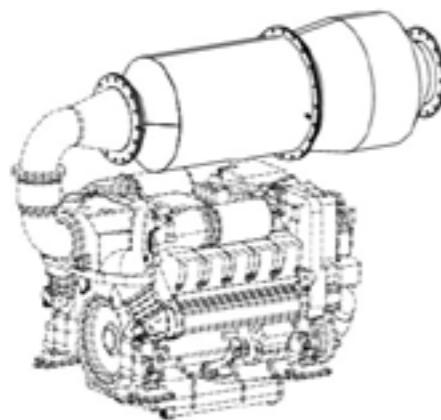
mtu 8/10V 2000 M72 til hurtige fartøjer med høje belastningsfaktorer (1B)

Engine type	8V 2000 M72			10V 2000 M72		
Speed	rpm	2250	1950	1200	2250	1950
Maximum power	kW	720	710	370	900	880
	bhp	(965)	(950)	(495)	1205	1180
Power on propeller curve (n 3)	kW	720	475	115	900	585
	bhp	(965)	(635)	(155)	1205	785
Fuel consumption	g/kWh	214	215	219	213	211
on propeller curve 1)	l/hr	185,6	123,0	30,3	321,0	148,7
Urea consumption 2)	g/kWh	9,5	9,5	9,5	9,5	9,5

1) Tolerance +5% per ISO 3046, Diesel fuel to DIN 590 (low sulphur fuel) with a min L.H.V. of 42800 kJ/kg (18390 BTU/lb)

2) AdBlue 32,5% Urea, tolerance 5%

ENGINE	SCR			
Engine with SCR	Dimensions (LxWxH) mm	Mass engine, dry [kg]	Dimensions (LxD) mm	Mass SCR system, dry [kg]
8V2000M72	1379 x 1130 x 1200	1970	2164 x 700	278 ¹⁾
10V2000M72	1544 x 1130 x 1230	2230	2164 x 750	300 ¹⁾



Typical applications: Fast ferries, wind mill service vessels, SAR, Patrol vessels(catamarans surface effect ships) and displacement yachts

1) Weight of complete SCR system including catalyst, mixer, 100 l urea tank (dry), control cabinet, wiring and dosing unit

Engine type	8V 2000 M72	12V 2000 M72
Rated power ICFN	kW	720
	(bhp)	(965)
Speed	rpm	2250
No. of cylinders		8
Bore stroke	mm	135/156
Displacement, total	l	17,9
Flywheel housing		SAE 1
Aftertreatment system		LD-type
Max exhaust backpressure 2)	mbar	45
Exhaust emissions		IMO III

1) IMO – International Maritime Organization

2) Including SCR system

Engine system	Standard equipment
Exhaust after treatment system	SCR-system with integrated mixer and catalyst. Air assisted Urea injection.
Engine starting system	Electric starter 24V
Auxiliary PTO	Alternator, 80A, 28V, 2 pole
Engine oil system	Gear driven lube oil pump, lube-oil duplex filter with diverter valve, lube-oil heat exchanger, handpump for oil extraction
Engine fuel system	Fuel feed pump, fuel hand pump, fuel pre-filter, fuel main filter with diverter valve, on-engine fuel oil cooler, HP fuel pump, jacketed HP fuel lines, injection nozzles (CR system), flame proof hose lines, leak-off fuel tank level monitored
Engine cooling system	Coolant-to-raw water plate core heat exchanger, self-priming centrifugal raw water pump, gear driven coolant circulation pump
Engine combustion air system	Sequential turbocharging with 2 water-cooled exhaust-gas turbochargers, on-engine set of combustion-air filters
Engine exhaust system	Triple-walled, liquid-cooled, on-engine exhaust manifolds, single centrally located exhaust outlet, 1 exhaust bellow horizontal discharge
Engine mounting system	Resilient mounts at free end
Engine management system	Engine control and monitoring system (ADEC)

Engine system	Optional equipment
Auxiliary PTO	Alternator, 140A, 28V, 2 pole, bilge pump, on-engine PTOs
Oil system	Centrifugal oil filter, oil replenishment system
Fuel system	Duplex fuel pre - filter
Cooling system	Coolant preheating system
Exhaust system	1 exhaust bellow vertical discharge
Mounting system	Resilient mounts at driving end
Engine Management system	In compliance with Classification Society Regulations
Monitoring / Control system	BlueVision New Generation MCS, RCS
Power Transmission	Torsional resilient coupling
Classification	ABS, BV, CCS, DNV-GL, KR, JG, LR, NK, RINA

> Power definition according ISO 3046

> Intake air temperature 25°C/Sea water temperature 25°C

> Intake air depression 15 mbar / Exhaust back pressure 30 mbar

> Barometric pressure 1000 mbar

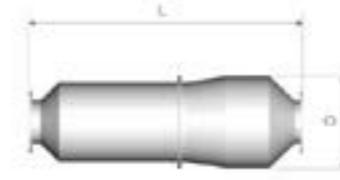
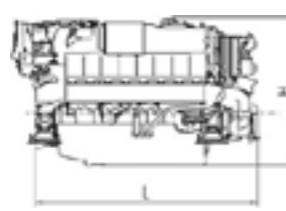
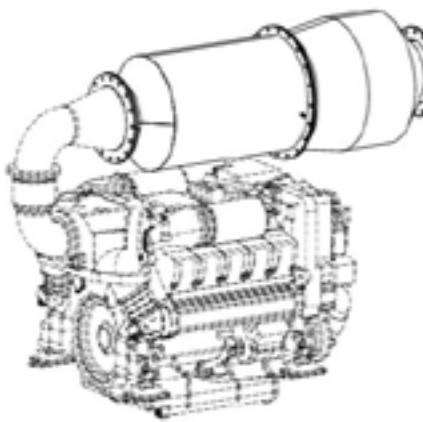
> Power reduction at 45°C/32°C: none

Specifications are subject to change without notice. All dimensions are approximate. For complete information refer to installations drawing. For further information consult your MTU distributor/dealer. May have options that are not fitted as standard to the standard engine.

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mtu 12/16V 2000 M72 til hurtige fartøjer med høje belastningsfaktorer (1B)

ENGINE		SCR		
Engine with SCR	Dimensions (LxWxH) mm	Mass engine, dry [kg]	Dimensions (LxD) mm	Mass SCR system, dry [kg]
12V2000M72	1869 x 1293 x 1364	2780	2194 x 850	340 ¹⁾
16V2000M72	2287 x 1293 x 1404	3337	2247 x 950	385 ¹⁾



Typical applications: Fast ferries, wind mill service vessels, SAR, Patrol vessels (catamarans monohulls, surface effect ships) and displacement yachts

1) Weight of complete SCR system including catalyst, mixer, 100 l urea tank (dry), control cabinet, wiring and dosing unit

Engine type	12V 2000 M72	16V 2000 M72
Rated power ICFN kW (bhp)	1080 (1450)	1440 (1930)
Speed rpm	2250	2250
No. of cylinders	12	16
Bore stroke mm	135/156	135/156
Displacement, total l	26,8	35,7
Flywheel housing	SAE 0	SAE 0
Aftertreatment system	LF-type	LG-type
Max exhaust backpressure 2) mbar	45	45
Exhaust emissions	IMO III	IMO III

1) IMO – International Maritime Organization

2) Including SCR system

Engine type	12V 2000 M72			16V 2000 M72		
Speed	rpm	2250	1950	1200	2250	1950
Maximum power	kW bhp	1080 1450	1060 1420	525 705	1440 1930	690 925
Power on propeller curve (n 3)	kW bhp	1080 965	720 635	170 155	1440 1930	225 300
Fuel consumption on propeller curve 1)	g/kWh l/hr	208 270.7	217 188.2	218 44.6	208 360.9	218 59.1
Urea consumption 2)	g/kWh	9.5	9.5	9.5	9.5	9.5

1) Tolerance +5% per ISO 3046, Diesel fuel to DIN 590 (low sulphur fuel) with a min L.H.V. of 42800 kJ/kg (18390 BTU/lb)

2) AdBlue 32,5% Urea, tolerance 5%

Engine system	Standard equipment
Exhaust after treatment system	SCR-system with integrated mixer and catalyst. Air assisted Urea injection.
Engine starting system	Electric starter 24V
Auxiliary PTO	Alternator, 80A, 28V, 2 pole
Engine oil system	Gear driven lube oil pump, lube-oil duplex filter with diverter valve, lube-oil heat exchanger, handpump for oil extraction
Engine fuel system	Fuel feed pump, fuel hand pump, fuel pre-filter, fuel main filter with diverter valve, on-engine fuel oil cooler, HP fuel pump, jacketed HP fuel lines, injection nozzles (CR system), flame proof hose lines, leak-off fuel tank level monitored
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> Intake air temperature 25°C/Sea water temperature 25°C

> Intake air depression 15 mbar / Exhaust back pressure 30 mbar

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> Power reduction at 45°C/32°C: none

Specifications are subject to change without notice. All dimensions are approximate. For complete information refer to installations drawing. For further information consult your MTU distributor/dealer. May have options that are not fitted as standard to the standard engine.

UDVALGTE REFERENCER

BOS Power S2000 M72 IMO Tier III
– Har operatørernes tillid.

MS RygerCruice

Drevet af: 4 x **mtu** 8V 2000 M72
Værft: Brødrene Aa
Levering: 2024

MS Fjordfart

Drevet af: 4 x **mtu** 10V 2000 M72
Værft: Brødrene Aa
Levering: 2024

MS Rygerfonn

Drevet af: 2 x **mtu** 10V 2000 M72
Værft: Brødrene Aa
Levering: 2023

MS Fredrikke Tønder-Olsen

Drevet af: 4 x **mtu** 10V 2000 M72
Værft: Brødrene Aa
Levering: 2020

MS Fjordglimt

Drevet af: 2 x **mtu** 8V 2000 M72
Værft: Brødrene Aa
Levering: 2018

MS Fjordsol

Drevet af: 2 x **mtu** Series 60
Værft: Brødrene Aa
Levering: 2018

MS Seacat Mayflower

Drevet af: 2 x **mtu** 12V 2000 M72
Værft: Mainstay Marine Solutions
Levering: 2024

MS Fjorgyn

Drevet af: 4 x **mtu** 10V 2000 M72
Værft: Oma Baatbyggeri
Levering: 2021

MS Rygerprinsessen

Drevet af: 2 x **mtu** 8V 2000 M72
Værft: Oma Baatbyggeri
Levering: 2019

MS Regine Normann

Drevet af: 4 x **mtu** 10V 2000 M72
Værft: Brødrene Aa
Levering: 2018

MS Elsa Lula Renberg

Drevet af: 4 x **mtu** 10V 2000 M72
Værft: Brødrene Aa
Levering: 2018



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