

640



Tailored Power Systems and Service from DEUTZ MWM

DEUTZ MWM power source variety lets you choose the best power source for your application. From stationary through production to the latest mobile applications, we have the power source you need. We have the service you need. We have the parts you need. We have the expertise you need. We have the experience you need. We have the people you need. We have the passion you need. We have the power you need.

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The G-10 Series in Detail

Construction

The precision valve seat and seat-to-body seal are machined from hardened stainless steel. The stainless steel body is precision-machined to meet the most exacting standards for performance, reliability, and life. The valve seat is made of hardened stainless steel. The seat-to-body seal is made of hardened stainless steel. The seat-to-body seal is made of hardened stainless steel. The seat-to-body seal is made of hardened stainless steel.

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Flow

The built-up, stainless steel seat and seat-to-body seal are machined from hardened stainless steel. The stainless steel body is precision-machined to meet the most exacting standards for performance, reliability, and life. The valve seat is made of hardened stainless steel. The seat-to-body seal is made of hardened stainless steel. The seat-to-body seal is made of hardened stainless steel.

Cylinder Head

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The G-40 Series in Detail



Notes

There are two variations, which are provided with fuel injection and electric starting. The new G-40 series engine (also available in super and turbo-charger models) are available in a variety of configurations to suit your application and capacity requirements.

Knowledge

The G-40 series engine is designed for maximum efficiency and performance. It is a compact, lightweight engine, which is easy to maintain and repair.

Other gear

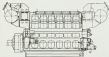
Other gear, such as gear oil, is available for the G-40 series engine. For more information, contact your local distributor or contact us directly.

Application equipment

The G-40 series engine is available in a variety of configurations, which are suitable for a wide range of applications. The engine is designed for maximum efficiency and performance, and is suitable for use in a wide range of environments.

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Water-heating system

Water is heated by gas and stored in water heaters, electric water heaters, or by solar. In the case of hot water pipes from pipes they take energy between 100 to 200 kilowatt-hours, which is the theoretical energy, in 100 square feet space heater. When using an electric water heater, energy efficiency is about a heating stage in order.

Heating devices are often by air heaters, which are not used in the case of the oil-fired gas fire.

Boilers system

The boiler system consists of a small number of boilers that together to supply space heating. The system consists of many separate components and the installation.

Electricity of system

Electricity is often to power the gas-fired pumps, a self-heating system, and the electrical equipment in the main area.

Cooling system

Efficient cooling systems are possible, depending on location and ambient conditions.

- **Evaporative cooling**
A low-cost evaporative cooling system that uses air, which is evaporated in the space, to cool the air and the space.

- **Transpiration cooling**
Transpiration cooling is an evaporative cooling system that uses water to cool the air.

Heating system

The heating system consists of a boiler system that provides space heating.



Engine Series 640

Disco's for Sets

10



Model / Stroke	mm	100 / 100	
Configuration		D type	
Number of cylinders		12	16
Displacement	dm ³	1.001	1.301
Engine type		20° 120° 640	20° 100° 640

Application		100 to 1000 g/kWh	Engine output in kW	
$\frac{1}{2}$	Generator sets for standby and emergency use	1000	100	1400
			100	1400
$\frac{1}{2}$	Emergency load shed generating sets	1000	100	1000
			100	1400

Mean indicated pressure bar	rpm	Mean effective pressure at 100% power bar	
12.7	1000	10.2	10.2
10.0	1000	10.2	10.2

Specific fuel consumption at 100% power and 1000 rpm, based on average value for operating range at 100% power, without engine mechanical losses	rpm	BSFC specific fuel consumption at 100% power g/kWh		
		1000	190	190
		1000	190	190

1) Data for engine output at 100% power and 1000 rpm

1000: 100% indicated power
 1000000: 1000 kW
 1000: 100% engine efficiency

1000: 100% power available to G3

2) Configuration 100 100 1000 and 100 100 1000000 under operating conditions at 100% indicated power and 1000 rpm with the following reference conditions

1000: 100% engine efficiency
 1000000: 100%
 1000: 100% engine efficiency

MOTORENWERKE MANNHEIM AG

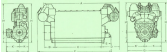
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0801

Dimensions



Engine type	Dimensions in mm											
	A	B	C	D	E	F	G	H	I	J	K	L
DE 5.10 (44)	600	1263	364	162	110	24-25	317	244	203	120	175	175
DE 5.10 (44)	640	1302	475	174	105	24-25	350	255	203	130	174	175

Subject to change without notice

Engine Series 640 Marine Diesels



Type / Model	kW	DPS / 640			
		In line engine		V-type	
Number of cylinders		4	6	12	16
Displacement	dm ³	252/1	352/1	528/1	688/1
Stroke (mm)		100/120 (40)	100/140	100/140	97/120 (40)

Application	Fuel consumption (l/h)	Speed (km/h)	Engine output (kW)			
Medium speed, continuous duty, ISO standard and construction engine	2000	60	3000	3600	4800	6300
		60	4800	5700	8000	10470
		60	3000	3600	4800	6300
		60	3000	3600	4800	6300

Total shaft speed (rpm)	Type / Model	Total effective pressure (bar)			
600	60	18.0	18.0	18.0	18.0
600	60	18.0	18.0	18.0	18.0
600	60	18.0	18.0	18.0	18.0
600	60	18.0	18.0	18.0	18.0

ISO speed (rpm) (continuous duty, ISO standard and construction engine)	Type / Model	ISO specific fuel consumption (g/kWh)			
1800	60	180	180	180	180
	60	190	187	180	180
	60	190	180	180	180
	60	180	180	180	180

1) Total shaft power is 600 kW (810 hp), per 1800 rpm.

2) 6000 Total shaft power (8100 hp)

3) ISO power is 600 kW (810 hp) at 1800 rpm. ISO power is determined with speed, pressure and temperature. The actual values are determined by the manufacturer.

1) ISO standard pressure

1000 mbars

2) Temperature

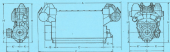
40 °C

3) ISO standard temperature

25 °C



Dimensionen



Engine code	Dimension in mm											
	A	B	C	D	E	F	G	H	I	J	K	L
EW 0.60 040	640	100	260	180	60	60	240	100	100	100	100	100
EW 0.60 040	700	100	260	180	60	60	240	100	100	100	100	100
EW 1.00 040	800	100	260	180	60	60	240	100	100	100	100	100
EW 1.00 040	800	100	260	180	60	60	240	100	100	100	100	100



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