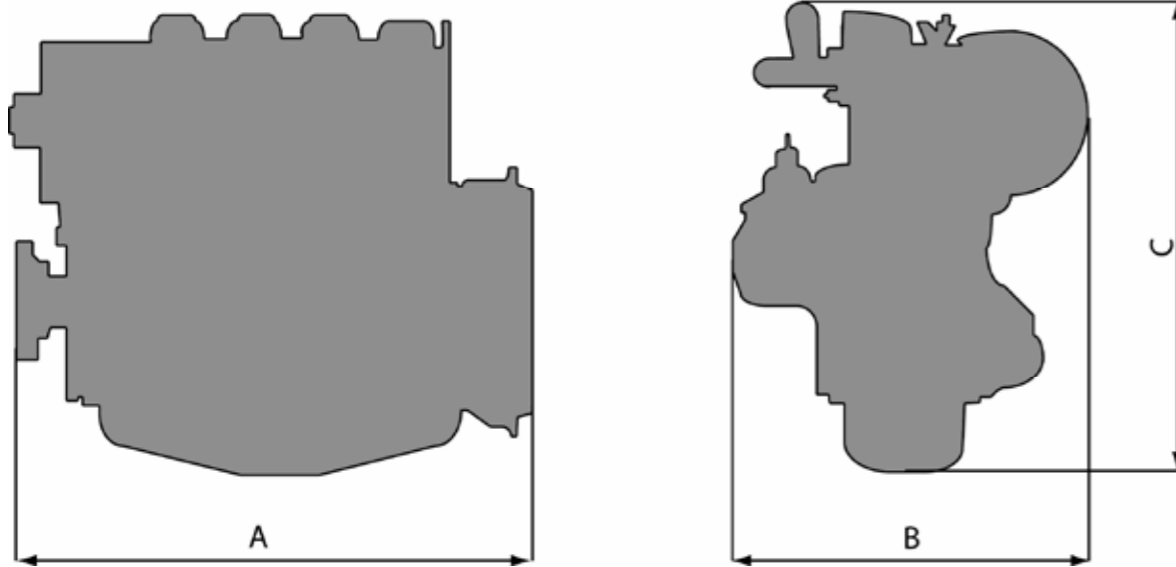


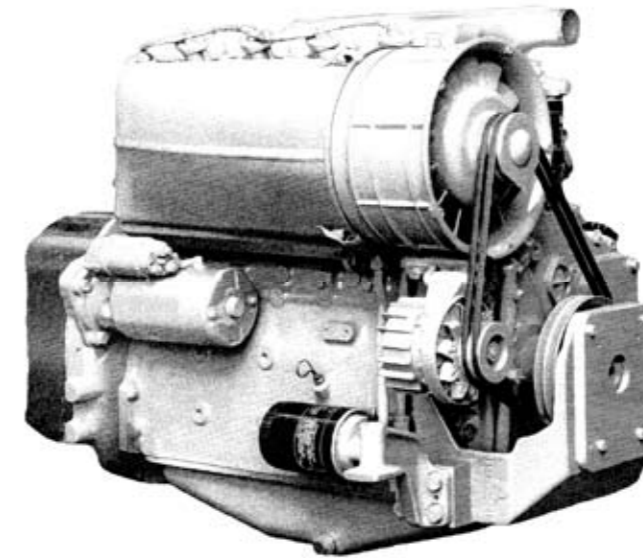
## ➤ Dimensions



Engine type		A	B	C
D327-2	mm	615	575	730
D327-3	mm	745	575	765
D327-4	mm	870	575	795
D327-6	mm	1125	575	850
TD327-3	mm	770	640	770
TD327-6	mm	1305	575	850

Engine type	D327-2	D323-3	D327-4	D327-6	TD327-3	TD327-6
Weight (dry)	t	0.215	0.265	0.315	0.410	0.435

## Total Service



## WÄRTSILÄ DEUTZ marine engines

### Characteristics

- Air-cooled, four-stroke 2, 3, 4 and 6 cylinder in-line engines.
- Direct fuel injection.
- 3 and 6 cylinder engine also in turbocharged version.
- One inlet and one outlet valve per cylinder.

### Benefits

- Compact engine.
- Low weight.

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## ➤ Engine description

<b>Crankcase</b>	The ribbed crankcase ensures a rigid and stiff construction.
<b>Crankshaft</b>	The crankshaft is forged from one piece and has bolted counterweights. The bearing journals are inductive hardened. The bearings are of the lead bronze type with a steel back and a galvanic plated running-in layer.
<b>Torsional vibration damper</b>	Rubber vibration damper, mounted at blower-side, only on the following engines: D327-4; engine speed > 2600 min <sup>-1</sup> D327-6; engine speed > 1500 min <sup>-1</sup>
<b>Cylinder liner</b>	The cylinder liner is made of high wear-resistant grey cast iron.
<b>Connecting rod</b>	The obliquely split connecting rod with serrated mating faces is made of alloyed steel.
<b>Piston</b>	The oil-cooled piston is made of light metal. The piston has 4 piston rings, the upper-ring is hard chrome plated.
<b>Cylinder head</b>	The cylinder head is made of high temperature resistant aluminium alloy. Each cylinder head has one inlet and one exhaust valve. The cylinder head is air cooled and provided with cooling ribs.
<b>Camshaft</b>	The camshaft is made in one piece. The journals and cams are induction hardened.
<b>Injection pump</b>	The engine has a block-type injection pump.
<b>Governor</b>	A mechanical governor controls the engine speed.
<b>Fuel system</b>	The fuel system includes a fuel tank, a fuel supply pump (diaphragm pump) with hand priming device and a single filter or duplex change-over filter with disposable cartridges and overflow valve. The fuel supply pump is mounted on the block pump.
<b>Lubricating oil system</b>	The engine has a forced oil circulation via an engine-mounted gear pump. The system is provided with a single or change-over oil filter and oil cooler.
<b>Lube oil filter</b>	Single fine filter with disposable cartridge or duplex change-over filter in main stream.
<b>Starting system</b>	An electrical starter starts the engine. (12V or 24V)
<b>Cooling system</b>	Air-cooled with axial-flow blower and cooling air conduit.
<b>Exhaust gas system</b>	An exhaust gas silencer is mounted.
<b>Turbocharging</b>	A turbocharger is mounted on the engine types TD327-3 and TD327-6.
<b>Optional</b>	<ul style="list-style-type: none"> <li>Control devices and electrical equipment for monitoring the oil pressure, temperature of the cylinder head, oil temperature and speed.</li> <li>Flywheel housing with SAE connections.</li> <li>Mechanic starting with hand cranking device (only for D327-2 and D327-3 engine types) or compressed air.</li> </ul>

## ➤ Technical Data

<b>Engine type</b>		<b>D327-2</b>	<b>D327-3</b>	<b>D327-4</b>	<b>D327-6</b>	<b>TD327-3</b>	<b>TD327-6</b>
Model		In-line	In-line	In-line	In-line	In-line	In-line
Number of cylinders		2	3	4	6	3	6
Bore / stroke	mm	100/120	100/120	100/120	100/120	100/120	100/120
Displacement	l	1.88	2.82	3.77	5.65	2.82	5.65
Compression ratio		17.5	17.5	17.5	17.5	16.5	16.5
Direction of rotation (facing flywheel)		counter-clockwise					

### Maximum power ratings (according to DIN 6271)

Engine speed	min <sup>-1</sup>	3000	3000	3000	3000	2500	1500
Engine output (exceedable)	kW	21	32	42	64	42.5	-
Engine output (blocked)	kW	23.5	35.5	47	70	47	55
Mean effective pressure <sup>1)</sup>	bar	5.0	5.0	5.0	5.0	8.0	7.8
Specific fuel consumption <sup>2)</sup>	g/kWh	286	281	279	279	240	225
Lubrication oil consumption	kg/h	0.03-0.06	0.04-0.09	0.06-0.12	0.09-0.18	0.05-0.09	0.055-0.08
Total oil capacity of engine	l	5.25	7.25	9.5	13	7.25	13
Idling speed	min <sup>-1</sup>	650	650	650	650	650	650

1) Values refer to the blocked engine output.

2) The fuel consumption values refer to the exceedable engine output (if the exceedable output is not mentioned, values refer to the blocked output) with a tolerance +5%, when using a fuel with a calorific value of 42,700 kJ/kg.

#### Note:

The values given in this data sheet are for information purposes only and not binding. The data provide in the offer is decisive.