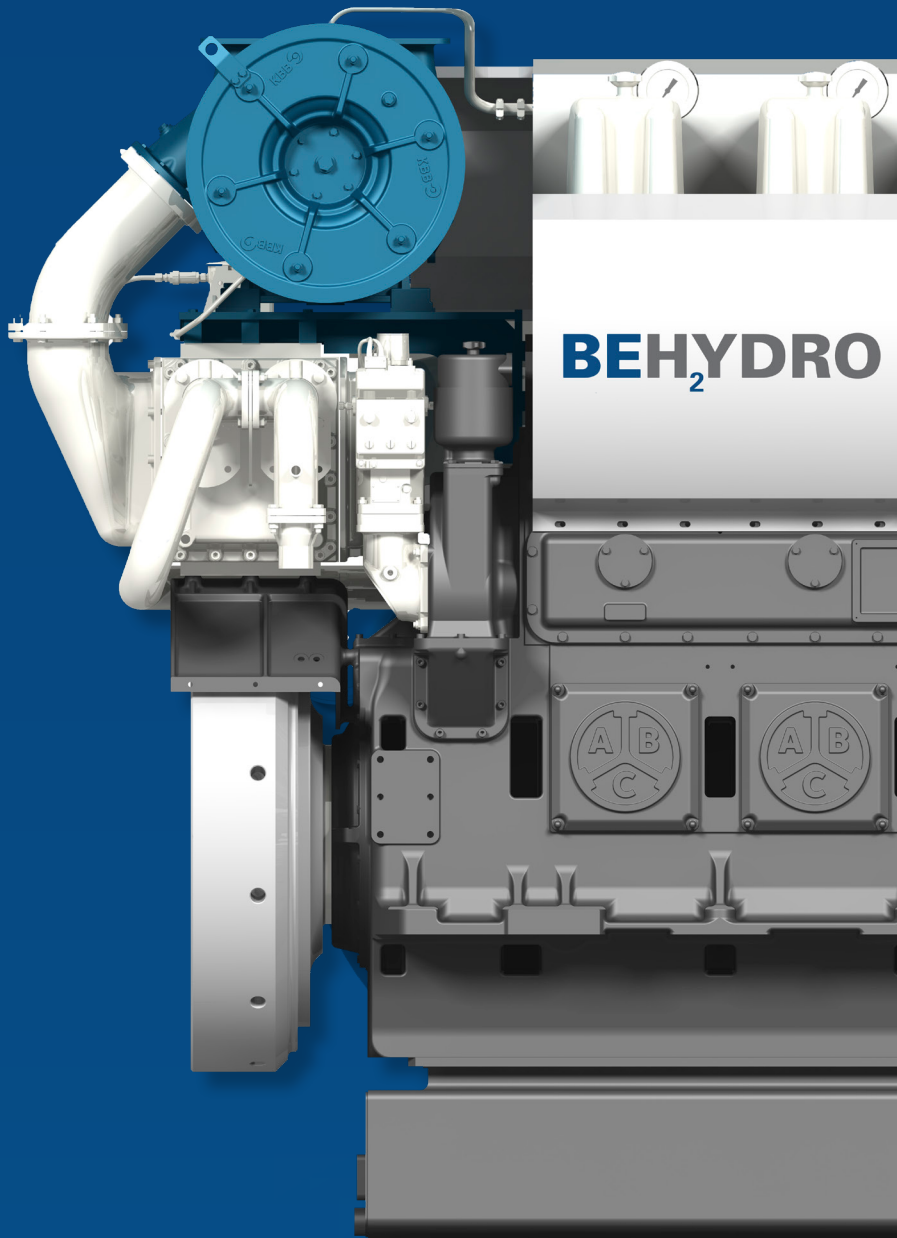


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DATASHEET



ENGINE TYPE

DZD H₂

**POWERED BY
HYDROGEN**

Datasheet engines type DZD H₂

Operational circumstances based on ISO-conditions (ISO 3046-I).
BEH2YDRO reserves the right to alter the technical data without prior notice.

Definition

DZD H₂: Medium-speed dual-fuel H₂ engine Turbocharged & intercooled
Available in Anti-clock and Clock rotation
Built for multiple fuel execution

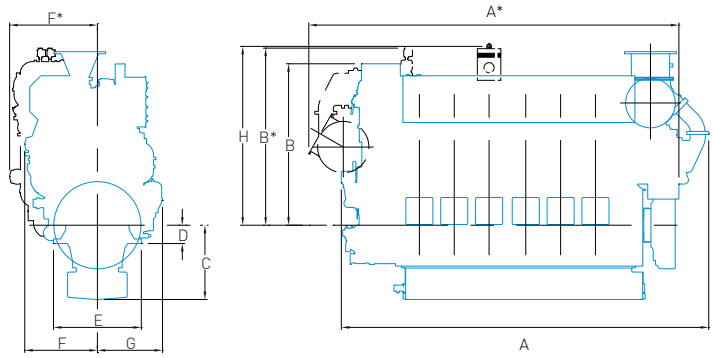
Basic data

Cycle	4-stroke
Cylinders	Inline 6 or 8 cylinders ; 12 or 16 cylinders in V
Bore	256 mm
Stroke	310 mm
Swept volume	6 cylinders: 95,71l - 12 cylinders: 191,5l 8 cylinders: 127,6l - 16 cylinders: 255,2l
Injection	Direct fuel injection (diesel) / Port injection (hydrogen)
Brake mean effective pressure	12,5
Piston speed	10,3

Power

Engine type	rpm	Engine power (ISO 3046 - I)	Nominal power of gensets DZD H ₂			
		kW	50 Hz electric - 3 phase		60 Hz electric - 3 phase	
			P _w (kW)	P _n (kVA)	P _w (kW)	P _n (kVA)
6 DZD H ₂	900	900	---	---	855	1069
	1000	1000	950	1188	---	---
8 DZD H ₂	900	1200	---	---	1140	1425
	1000	1335	1268	1585	---	---
12 DZD H ₂	900	1800	---	---	1710	2138
	1000	2000	1900	2375	---	---
16 DZD H ₂	900	2400	---	---	2280	2850
	1000	2670	2537	3171	---	---

Conversion factors used: Generator efficiency: $\eta_g = 0,95 \rightarrow$ Power factor: $\cos \varphi = 0,8$
Possible fuels: diesel, marine diesel oil (MDO), gasoil (GO), dual fuel (diesel + hydrogen), biofuel, vegetable oil - fuel cell grade is possible or less purified H₂

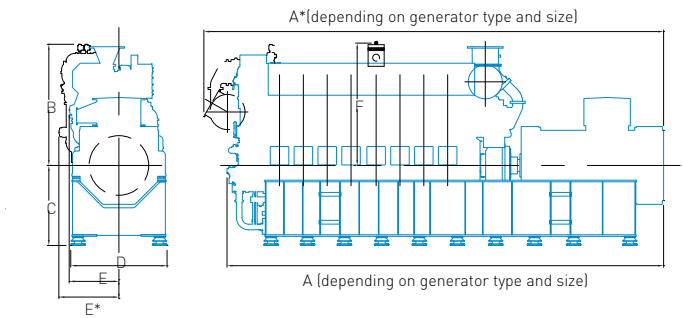


6/8DZD H₂ engine

	A (mm)	A* (mm)	B (mm)	C (mm)	C* (mm)	D (mm)		E (mm)	F (mm)	G (mm)	G* (mm)	H (mm)	I (mm)	Dry mass** (kg)
						(Shallow)	(Deep)							
6DZD H ₂	4007	4036	2771	1761	1931	508 / 650	710 / 810	200	958	793	957	710	1950	10620
8DZD H ₂	4767	4796	3531	1761	1931	508 / 650	710 / 810	200	958	793	957	710	1950	13905

* Turbochargers at free end side

** Flywheel, vibration damper and coolers are included

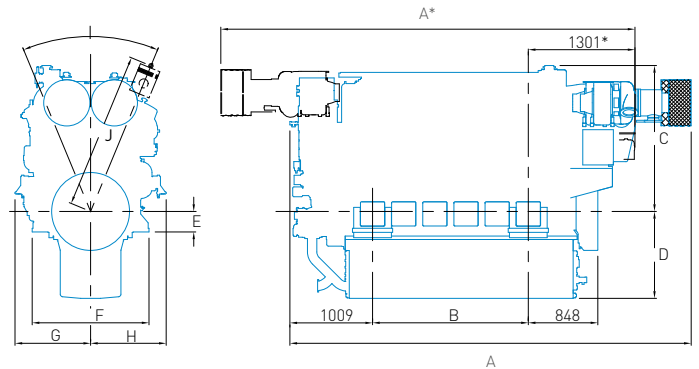


6/8DZD H₂ genset

	A (mm)	A* (mm)	B (mm)	C (mm)	D (mm)	E (mm)	E* (mm)	F (mm)	Dry mass** (kg)
6DZD H₂	6037	6406	1931	1276	1535	793	957	1950	22100
8DZD H₂	6959	7328	1931	1276	1535	793	957	1950	26500

* Turbochargers at free end side

** Flywheel, vibration damper and coolers are included

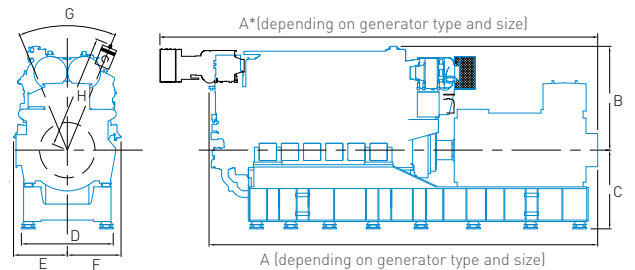


12/16DZD H₂ engine

	A (mm)	A* (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (°)	J (mm)	Dry mass** (kg)
12DZD H₂	4529	4686	1900	1780	1060	250	1425	925	925	45	1950	18000
16DZD H₂	5289	5446	2660	1780	1060	250	1425	925	925	45	1950	21750

* Turbochargers at free end side

** Flywheel, vibration damper and coolers are included



12/16DZD H₂ genset

* Turbochargers at free end side

** Flywheel, vibration damper and coolers are included

	A (mm)	A* (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (°)	H (mm)	Dry mass** (kg)
12DZD H₂	6667	7143	1780	1351	1575	925	925	45	1950	33500
16DZD H₂	7847	8323	1780	1351	1575	925	925	45	1950	43200

CONTACT US



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JOINT VENTURE



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