

X62DF-2.1	IMO Tier III in gas mode		
Cylinder bore:	620mm		
Piston stroke:	2658mm		
Speed:	80-103rpm		
Mean effective pressure at R1:	17.3bar		
Stroke/bore ratio:	4.29		

Rated power, principal dimensions and weights

Output in kW at

	103rpm		80rpm			
Cyl.	R1	R2	R3	R4	Length A mm	Dry mass tonnes
5	11925	9925	9250	7700	6805	318
6	14310	11910	11100	9240	7910	370
7	16695	13895	12950	10780	9020	428
8	19080	15880	14800	12320	10125	475

	В	C	D	D (iCER on-engine)
	4200	1360	9580	10910
Dimensions mm	F1	F2	F3	G
	11775	11775	10950	2110

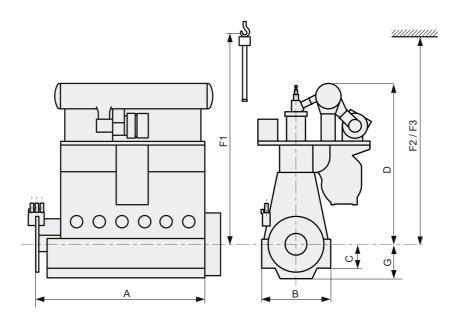
Brake specific consumption in gas mode

Rating point		R1	R2	R3	R4
BSEC (energy)	kJ/kWh	6982	6747	7089	6845
BSGC (gas)	g/kWh	138.8	133.9	140.9	135.9
BSPC (pilot fuel)	g/kWh	1.0	1.2	1.0	1.2

Brake specific fuel consumption in diesel mode

Rating point		R1	R2	R3	R4
BSFC (diesel Tier II)	kJ/kWh	178.3	172.3	180.3	176.3

Rating point		R1	R2 	R3	R4
BSFC (diesel Tier II)	kJ/kWh	167.3	166.3	168.3	166.3



Engine Definitions and Notes

ISO Standard (ISO 3046-1) reference conditions

1.0 barTotal barometric pressure at R1

25°CSuction air temperature

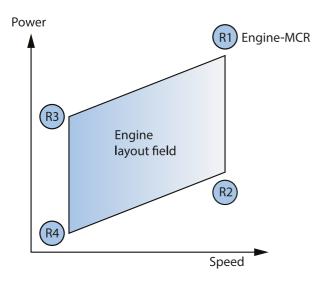
30%Relative humidity

25°CCooling water temperature before engine

Rating points

The engine layout fields for WinGD low-speed engines are defined by the power/speed rating points R1, R2, R3 and R4 (see diagram below).

R1, ok instead if applicable, is the nominal maximum continuous rating (MCR).



Any power and speed within the respective engine layout field may be selected as the Contracted-MCR (CMCR) point for an engine.

Dimensions and weights

- All dimensions and weights are not binding. For detailed information and updates, please visit: www.wingd.com/en/engines/engine-types

AEngine length from the coupling flange to the end of the bedplate

A*Engine length from the TC aft end to the end of the bedplate

BWidth of the engine seating

CDist. from the centre of the crankshaft to the underside of the foot flange

DDist. from the centre of the crankshaft to the highest point of the engine

F1Min. height for vertical removal of the piston

F2Min. height for vertical removal of the piston with double-jib crane

F3Min. height for tilted removal of the piston with double-jib crane

GDistance from the centre of the crankshaft to the lowest point of the engine

- The engine weight is a net value and excludes any liquids.

Fuel/energy consumption

All brake specific fuel consumptions (BSFC) and brake specific pilot fuel consumptions (BSPC) are quoted for fuel of lower calorific value 42.7 MJ/kg.

Brake specific gas consumptions (BSGC) are quoted for gas of lower calorific value 50.0 MJ/kg.

Brake specific energy consumptions (BSEC) for dual-fuel engines are based on energy delivered to the engine as gas and liquid fuel for one kilowatt hour mechanical power output.

For all WinGD low-speed diesel and dual-fuel engines stepwise tolerances have been introduced for the brake specific fuel and energy consumption (BSFC/BSEC) guarantee, referring to ISO standard reference conditions (ISO 15550 and 3046):

- +5% tolerance for 100% to 85% engine power
- +6% tolerance for <85% to 65% engine power
- +7% tolerance for <65% to 50% engine power

The BSFC/BSEC guarantee is possible at up to three power points between 50–100%.

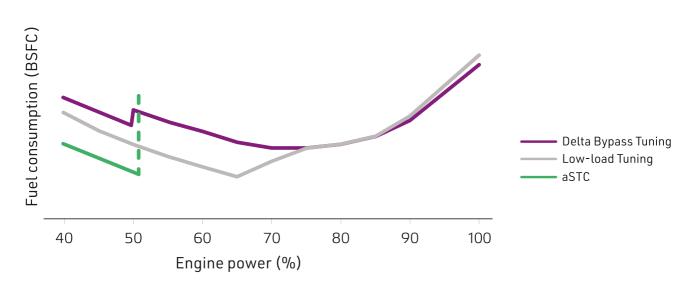
Available engine tunings

Delta Bypass Tuning and Low-load Tuning are available for certain WinGD low-speed diesel engines to provide optimum fuel consumption for different engine loads. Delta Bypass Tuning and Low-load Tuning focuses on reducing fuel consumption in the operating range below 90% or 75% engine power.

The advanced technology of Steam Production Control (SPC) can be added to the Low-load and Delta Bypass Tuning to increase the steam production, while keeping the overall fuel consumption at a minimum.

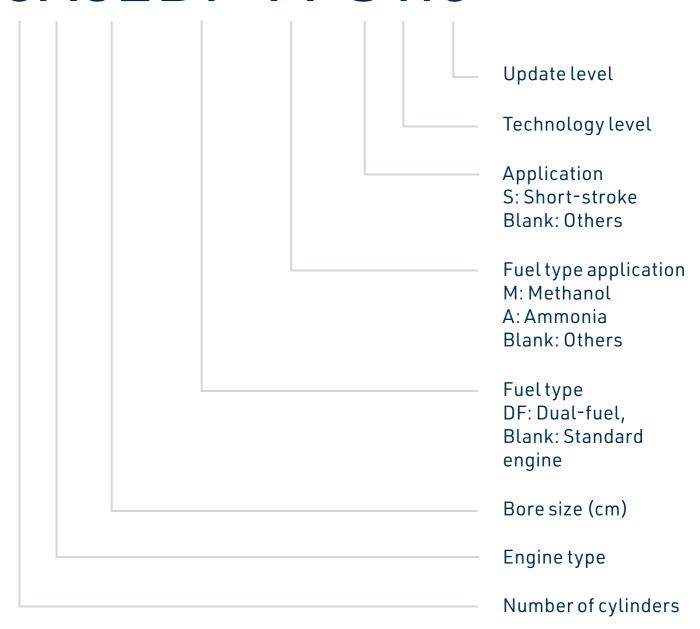
Dual tuning is available on request and in cooperation with classification societies.

Automated Sequential Turbocharging (aSTC) is available as an option for X82-2.0 and X92-B engines with multi-turbocharger configurations. aSTC significantly reduces the engine's consumption at low loads.



Engine Designation

6X52DF-A-S1.0



Example engine designation 6X52DF-A-S1.0 representing a WinGD 6 cylinder, short-stroke engine for dual-fuel operation with ammonia and diesel.

All data provided in this booklet is for information purposes only, explicitly non-binding and subject to change without notice. The General Technical Data (GTD) program provides up-to-date information on WinGD low-speed engines.

When referring to specific engines, the data may be subject to changes. These will be assessed individually according to the particular characteristic of each project.