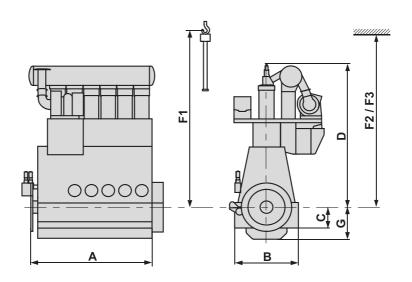


RT-flex58T-E						IMO Tier II/Tier III (SCR)		
Cylinder b	ore:	580mr						
Piston str	oke:	2416m						
Speed:		90-10						
Mean effe	ctive pressure at R1:	21bar						
Stroke/bo	re ratio:	4.17						
Rated po	wer, principal dimensi	ions and weigh	ts					
	Output in kW at							
	105rpm	9	90rpm			I am with A	D	
Cyl.	R1	R2		R3	R4	Length A mm	Dry mass tonnes	
5	11750	7900	100	75	7900	6381	281	
6	14100	9480	120	90	9480	7387	322	
7	16450	11060	141	05	11060	8393	377	
8	18800	12640	161	20	12640	9399	418	
			В	С		D		
		382	0	1300		8822		
Dimensions mm		F	1	F2		F3	G	
		1096	0	11000		10400	2000	
Brake sp	ecific consumption (B	SFC) IN g/kWh						
Rating po	int		R1		R2	R3	R4	
BMEP, bar	<u> </u>		21		16.8	21	17.2	
	Delta Bypa Tuning, 100)%						
BSFC (G/k	(Wh) power, Tier	rll	170.8		161.8	170.8	162.6	
R1 BSFC (g/kWh),			Power(%))			
		50		65		90	100	

Rating point		R1	R2	R3	R4
Delta Bypass Tuning	162.6	160.9	161.2	165.1	170.8
Low-load Tuning	159.6	157.9	161.2	165.5	171.8



Engine Definitions and Notes

ISO Standard (ISO 3046-1) reference conditions

1.0 barTotal barometric pressure at R1

25°CSuction air temperature

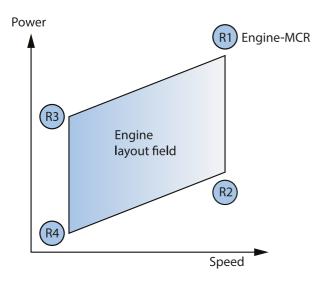
30%Relative humidity

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%.

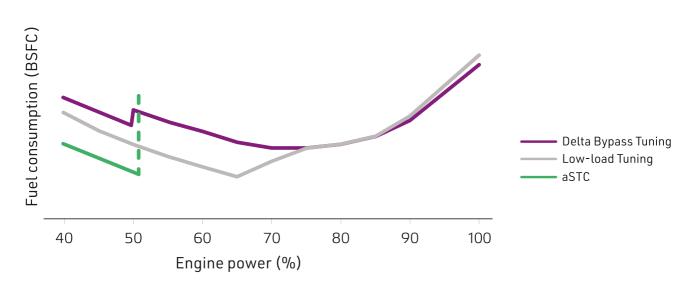
Available engine tunings

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.

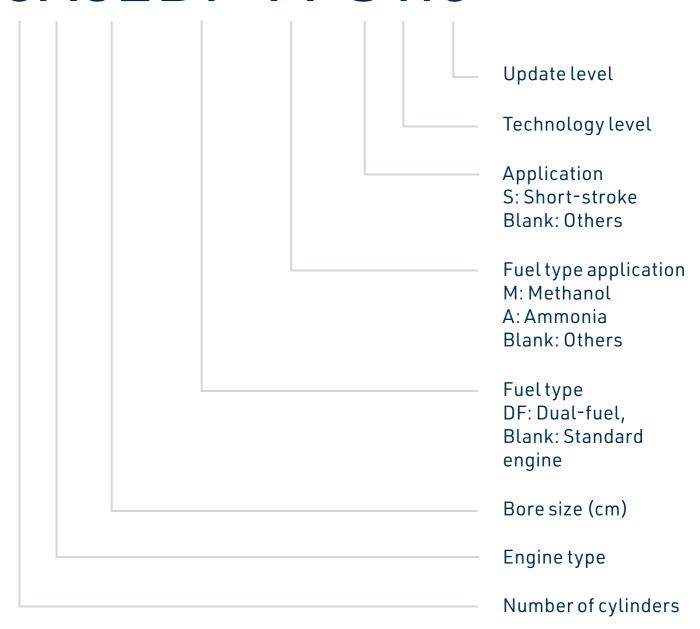
Dual tuning is available on request and in cooperation with classification societies.

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.