



GAMMA Series

GWT4 G-Build Engine

GWT4 15, GWT4 18

Power range: 65.7–83.2 kW; 88.1 –111.5 bhp
Fixed speed; full-load speed ranges: 1500 and 1800 r/min

Turbocharged heavy-duty G-Build diesel engine



Special Attributes

- ✓ continuous operation in ambient temperatures up to 52°C (122°F)
- ✓ cold-start down to -10°C (14°F)
- ✓ 400-hour service intervals

Engine Characteristics

- diesel-fuelled
- four cylinders
- direct injection
- water-cooled
- turbocharged
- standard oil and fuel filters
- 12V electric start (optional 24 V)
- anticlockwise rotation, looking on the flywheel end
- SAE 10" and 11.5" flywheel
- SAE3 flywheel housing
- radiator with fan guard

Design Features and Equipment

- cast-iron crankcase
- self-vent fuel system
- inline fuel injection pump
- flywheel with ring gear
- air cleaner
- low oil-pressure switch
- spin-on lubricating-oil filter
- fuel filter/agglomerator
- inlet and exhaust manifolds
- operators' handbook

Warranty

- standard: two years
- optional: five years (conditions apply)

Technical Data			
		GWT4 15	GWT4 18
Number of cylinders		4	
Firing order (number 1 cylinder is at the gear case end)		1 3 4 2	
Type of fuel injection		direct injection	
Aspiration		turbocharged	
Direction of rotation, looking on the flywheel end		anticlockwise	
Nominal cylinder bore	mm	100	
	in	3.94	
Stroke	mm	127	
	in	5	
Total cylinder capacity	litre	3.99	
	in ³	243.3	
Compression ratio		16.0:1	
Rated maximum full-load speed (r/min)		1500	1800
Mean piston speed	m/sec	6.35	7.62
	f/sec	20.8	25.0
Oil consumption		maximum 0.2% of fuel consumption	

Power (to ISO 3046)¹, Torque and Fuel Consumption²				
		r/min	1500	1800
Continuous Power		kW	65.7	75.6
		bhp	88.1	101.4
Overload Power		kW	72.3	83.2
		bhp	96.9	111.5
Fuel Consumption (Continuous Power)	litres/hour	100% power	15.4	17.8

1. Power ratings are measured at the flywheel end.
2. Power ratings and fuel consumption figures apply to a fully run-in, non-derated engine without a radiator and fan fitted, and without power-absorbing accessories or transmission equipment.

Rating Definitions, to ISO 3046

Fixed speed power: continuous power (ICN)

The power in kW which the engine is capable of delivering continuously at the stated crankshaft speed, under conditions of 100 kPa barometric pressure, 30% relative humidity and 25 °C air inlet temperature, provided that the engine is overhauled and maintained in good operating condition and that fuel to BS EN 590 Class A1 or A2, and lubricating oils to the correct performance specification and viscosity classification as recommended by Lister Petter Limited, are used.

Fixed speed power: overload power (ICXN)

The maximum power in kW which the engine is capable of delivering intermittently at the stated crankshaft speed for a period not exceeding one hour in any period of twelve hours continuous running, immediately after working at the continuous power, under the conditions specified in (1) above.

Variable speed: fuel-stop power, continuous power (IFN)

The maximum power in kW which an engine is capable of delivering continuously at stated crankshaft speed, under the conditions as specified in item 1, with the fuel limited so that the fuel stop power cannot be exceeded.

Variable speed: fuel-stop power, intermittent power (IOFN)

The maximum power in kW which an engine is capable of delivering intermittently at the stated crankshaft speed, for a period not exceeding 1 hour in any period of 12 hours continuous running immediately after running at the Continuous Fuel Stop Power rating.


De-rating

For non-standard site conditions, reference should be made to relevant BS, ISO and DIN standards.

The overload capability applies to a fully run-in engine. This is normally attained after a running period of about 50 hours .

Approximate Dimensions and Weight			
	Dry Weight	kg	550
		lb	1212.5
	Length (A)	mm	1250
		in	49
	Height (B)	mm	960
		in	38
	Width (C)	mm	706
		in	28

A comprehensive range of options allows you to select a specification that matches your requirements. Please ask your Lister Petter distributor. (See panel below left.)

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