



# GAMMA Series

## GWT4 Variable Speed Engine

### GWT4 - 22

Power range: 60 - 70 kW; 80.4 - 93.8 bhp  
Variable speed: 1500 - 2200 r/min

### Turbocharged heavy-duty variable speed diesel engine

#### Special Attributes

- ✓ 400-hour service intervals
- ✓ continuous operation in ambient temperatures up to 50°C (122°F)
- ✓ cold-start down to -10°C (14°F)

#### Basic Engine Characteristics

- four cylinders
- diesel fuelled
- direct injection
- water cooled
- turbocharged

#### Design Features and Equipment

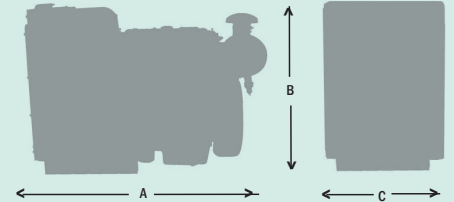
- standard oil and fuel filters
- 12V electric start (optional 24 V)
- anticlockwise rotation, looking on flywheel end
- SAE 10" and 11.5" flywheel
- SAE3 flywheel housing
- radiator with fan guard
- cast-iron crankcase
- self-vent fuel system
- inline fuel injection pump
- flywheel with ring gear
- air cleaner
- water temperature sender
- oil-pressure sender
- spin-on lubricating-oil filter
- fuel filter/agglomerator
- inlet and exhaust manifolds
- operators' handbook



Technical Data		
Model		GWT4 22
Number of cylinders		4
Firing order (number 1 cylinder is at gear end)		1 3 4 2
Type of fuel injection		Direct
Aspiration		Turbocharged
Direction of rotation, looking on flywheel		Anticlockwise
Cylinder bore	mm	100
	in	3.94
Stroke	mm	127
	in	5
Total cylinder capacity	litre	3.99
	in <sup>3</sup>	243.3
Compression ratio		17.5:1
Rated maximum full-load speed (r/min)		2200
Mean piston speed	m/sec	9.3
	f/sec	30.5
Oil consumption		maximum 0.2% of fuel consumption

**GAMMA Series: GWT4 Variable Speed Engine Technical Data Sheet**

Dimensions and Weight		
Length (A)	mm	1250
	in	49
Height (B)	mm	960
	in	38
Width (C)	mm	706
	in	28
Dry Weight	kg	550
	lb	1213



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.)

**Distributor's Address**

Lister Petter have made efforts to ensure that the information in this data sheet is accurate but reserve the right to amend specifications and information without notice and without obligation or liability.

Power Outputs to ISO3046					
		r/min	1500	1800	2200
Variable Speed	Fuel Stop Power	kW	60	67	70
		bhp	80.4	89.8	93.8

Torque to ISO3046					
		r/min	1500	1800	2200
Variable Speed	Fuel Stop Torque	Nm	380	353.7	302
		lbf ft	281	262	223.9

Fuel Consumption					
		r/min	1500	1800	2200
Variable Speed		litre/hr	15	16.75	18.4

**1. 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, with the fuel limited so that the fuel stop power cannot be exceeded.

The output ratings apply only to fully run - in engines without radiator, fan or other power absorbing accessories.



**UK**

Lister Petter Limited, Dursley, Gloucestershire  
GL11 4HS England

Tel: +44 (0)1453 544141; fax: +44 (0)1453 546732

E-mail: sales@lister-petter.co.uk <http://www.lister-petter.co.uk>