

- 2 cylinders
- 505 cm³
- 15,0 kW/20,4 HP @ 5000 r.p.m.
- Nm 34,0@2150
- 21,0 kW/28,5 HP @ 6000 r.p.m.
- Nm 39,0@2200

Available homologation

- EPA TIER II ●
- 2002/88/CE Stage 2 ◁



Technical features

- Twin-cylinders, four stroke spark-ignited engine
- Alluminium engine block and cylinders head
- Single overhead belt-driven camshaft
2 valves per cylinder
- Hydraulic tappets
- Multipoint “in manifold” gasoline injection with fully electronic engine management
- Motored throttle (drive by wire)
- Forced lubrication with vane pump on crankshaft
- Forced liquid cooling
- Integrated injection and starting system

Main applications

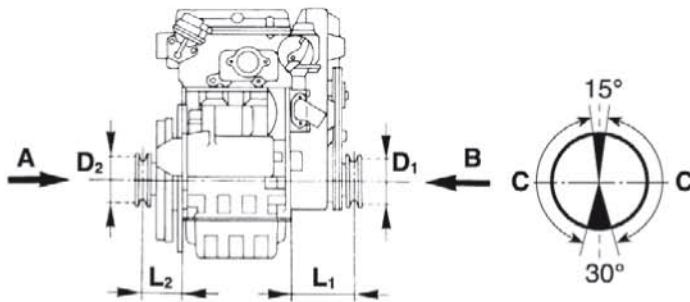
- Automotive (possible homologation 2002/51/CE)
- A.T.V. (All Terrain Vehicles)
- Snowmobiles

Specifications

Cylinders	N.	2
Displacement	cm ³	505
Bore	mm	72
Stroke	mm	62
Compression ratio		10,7:1
Rating kW/HP * @ 5000	N (80/1269/CEE) ISO 1585	15,0/20,4
Rating kW/HP @ 6000	N (80/1269/CEE) ISO 1585	21,0/28,5
Max. torque 15 kW	Nm	34,0@2150
Max. torque 21 kW	Nm	39,0@2200
Min. idling speed		1100
Water pump delivery at 5000 r.p.m.	l/min	75
Oil sump capacity	l	1,3
Combustion air required at 5000 r.p.m.	l/min	1100
Dry weight	kg	49



Minimum pulley diameters for belt drive



V belt	$D_2 \text{ (mm)} \geq 85 [L_2 \text{ (mm)} + 191]$	$\frac{N \text{ (HP)}}{n \text{ (RPM)}}$
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Cogged belt	$D_1 \text{ (mm)} \geq 65 [L_1 \text{ (mm)} + 191]$	$\frac{N \text{ (HP)}}{n \text{ (RPM)}}$
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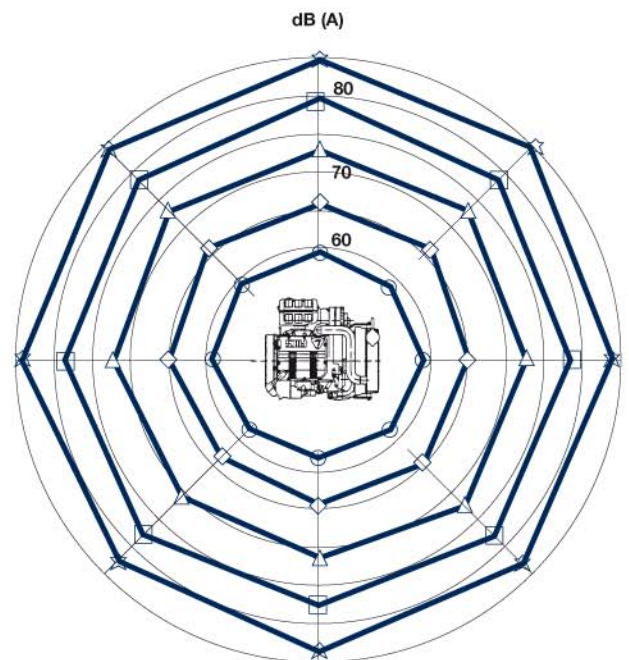
Max. intermittent axial load in both direction A-B = 300 kg
C - zone in which the radial loads can be applied

* Electronically limited power for quadricycle regulations

Engine mapping is customized to application need.

Sound pressure level dB (A)

Sound level polar diagram open field - 7 meters microphone - no load running engine.

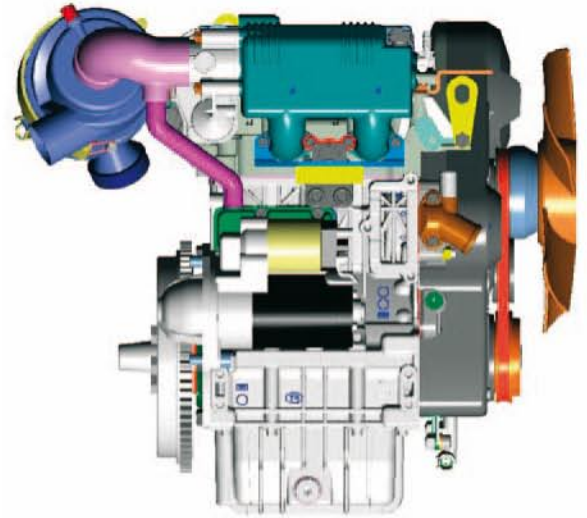
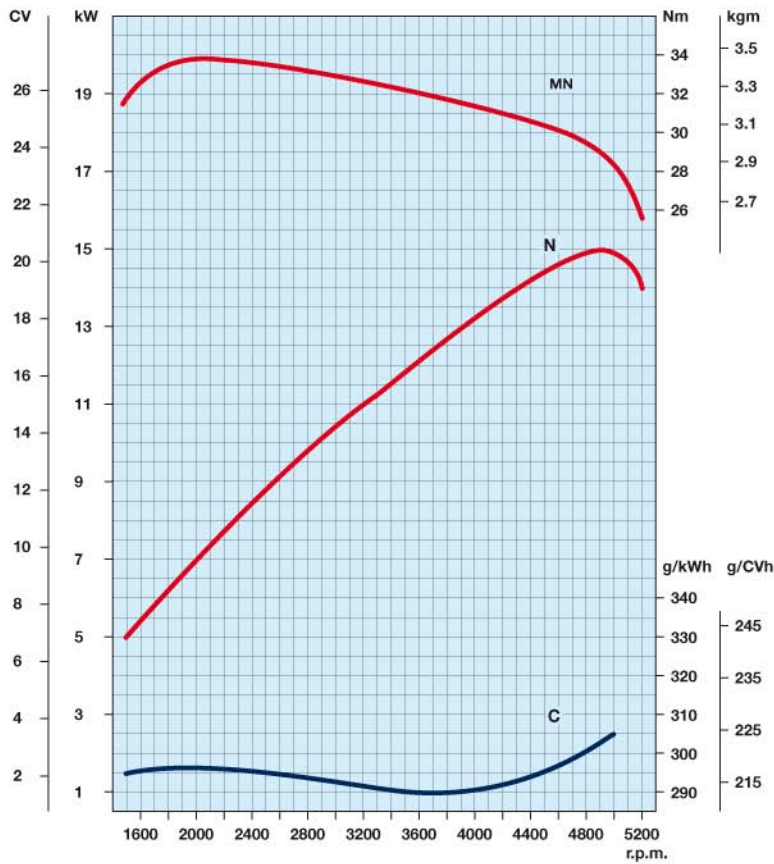


1000 RPM 2000 RPM 3000 RPM 4000 RPM 5000 RPM

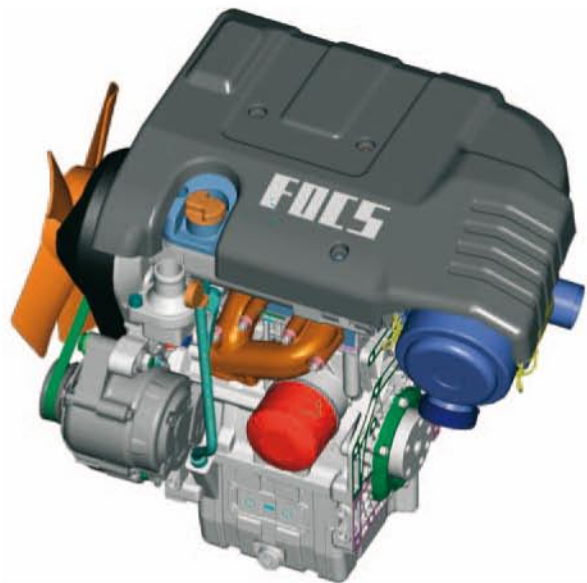
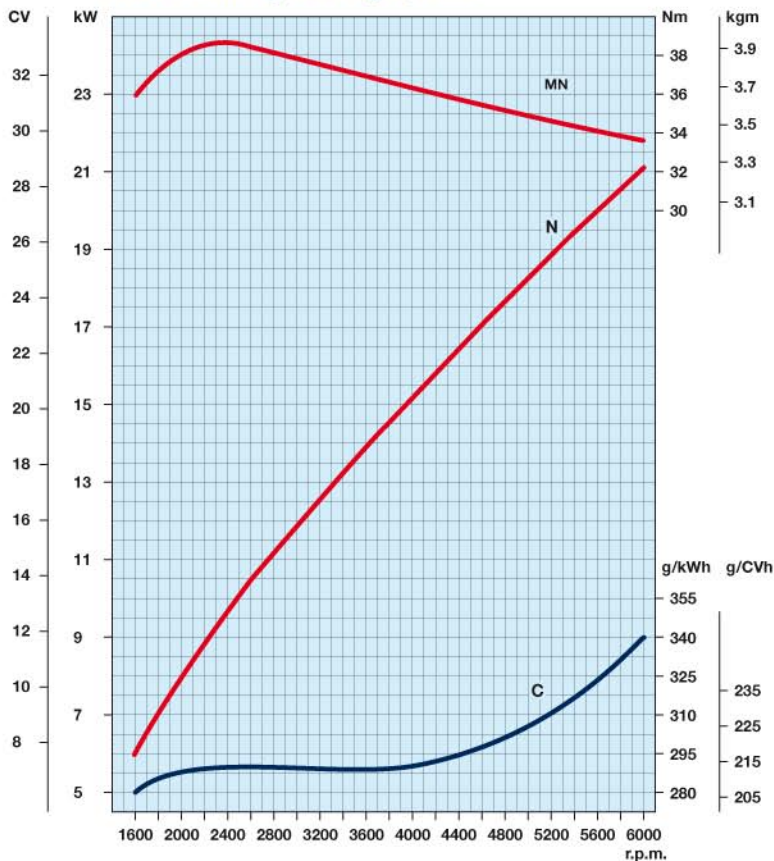
SERIE LGW

Curves

LGW 523 MPI @ 5000 giri/min.



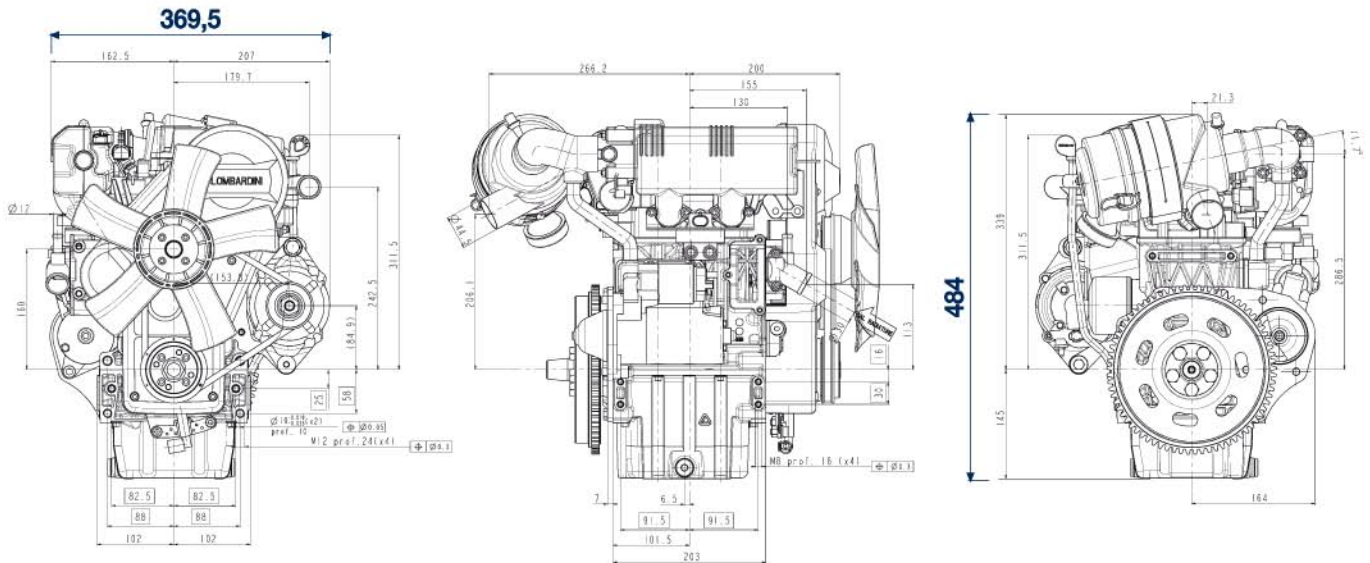
LGW 523 MPI @ 6000 giri/min.



- N** Power curve - 80/1269/CEE - ISO 1585 -
- MN** Torque curve - (N curve)
- C** Specific fuel consumption - (NB curve)

Power ratings refer to engines equiped with air filter, standard muffler, after being run in and in ambient conditions of 20°C and 1 bar. Power levels drop by 1% every 100m altitude and by 2% every 5°C above 20°C.

Technical drawings *



* More specific dimensions are available on www.lombardini.it (see table at the bottom of the page)

Standard equipment

- Engine Control Unit
- Pedal position sensor
- Exhaust oxygen sensor
- Fuel rail with safety connector
- Electric starting
- External alternator 40 A
- Dry air cleaner
- Exhaust manifold
- Puller fan
- Use, maintenance and spare parts booklet

Special accessories

- Guards according to safety standards
- Clutches
- Flywheels
- Flanges
- Radiators
- Blowing fan
- Engine feet



ISO 9001 Cert. n. 0446 - 1405
QS. 9000 Cert. n. 2231/0



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Files for this product available on www.lombardini.it

Data sheet	LGW53MPIDS.PDF
Owner manual	LGW53MPIOM.PDF
Service manual	LGW53MPISM.PDF
Technical drawing	LGW53MPITD.DWG
Power curve	LGW53MPIPC.PDF

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