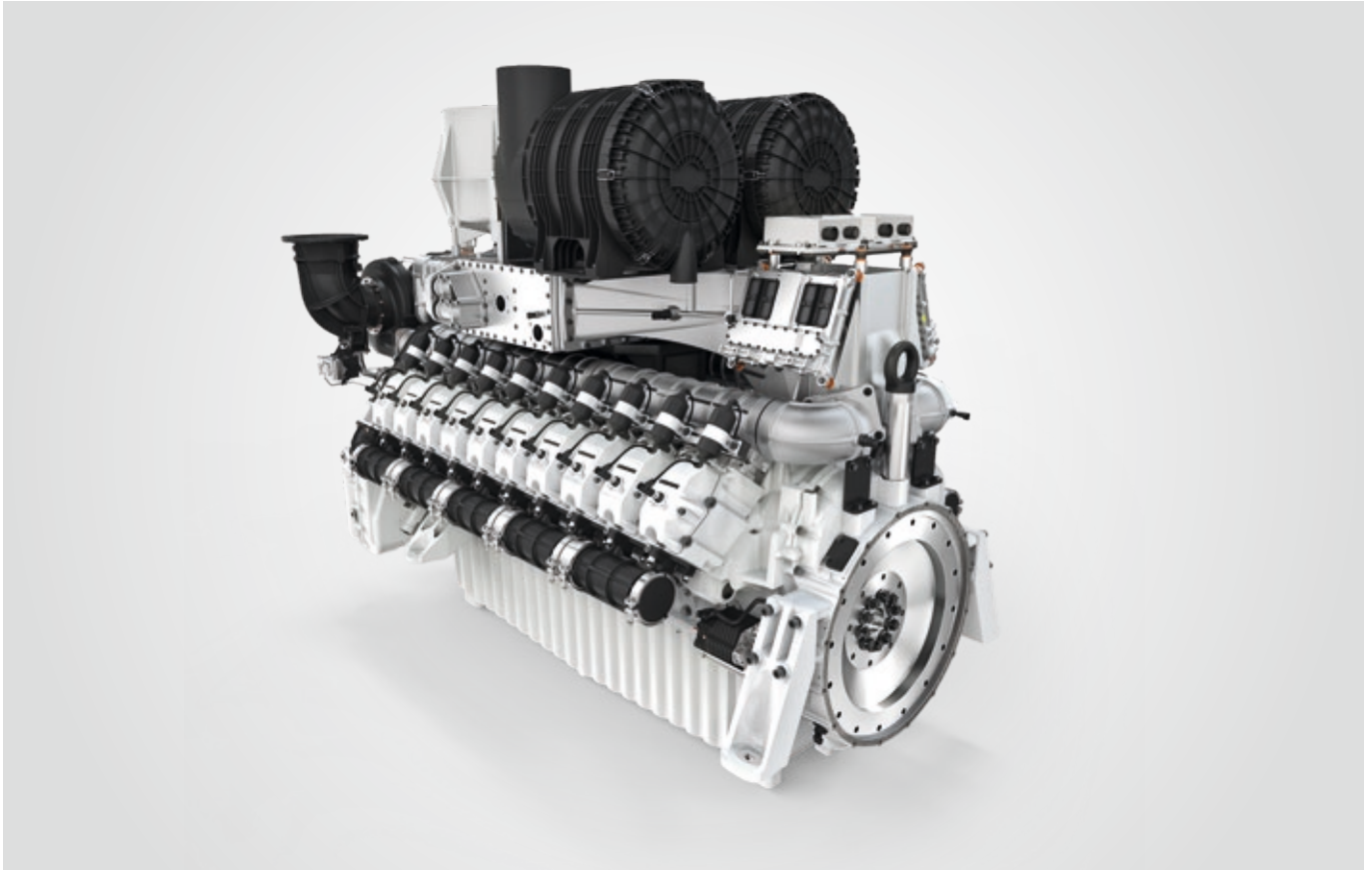


## Short Description

# Gas Engine G9620 for Cogeneration



The Liebherr gas engine G9620 is designed for CHP stationary applications. The 20-cylinder gas engine G9620 offers a displacement of 48.7 litres, 44 % mechanical efficiency and enters the megawatt market by offering a power output of 1,070 kW.

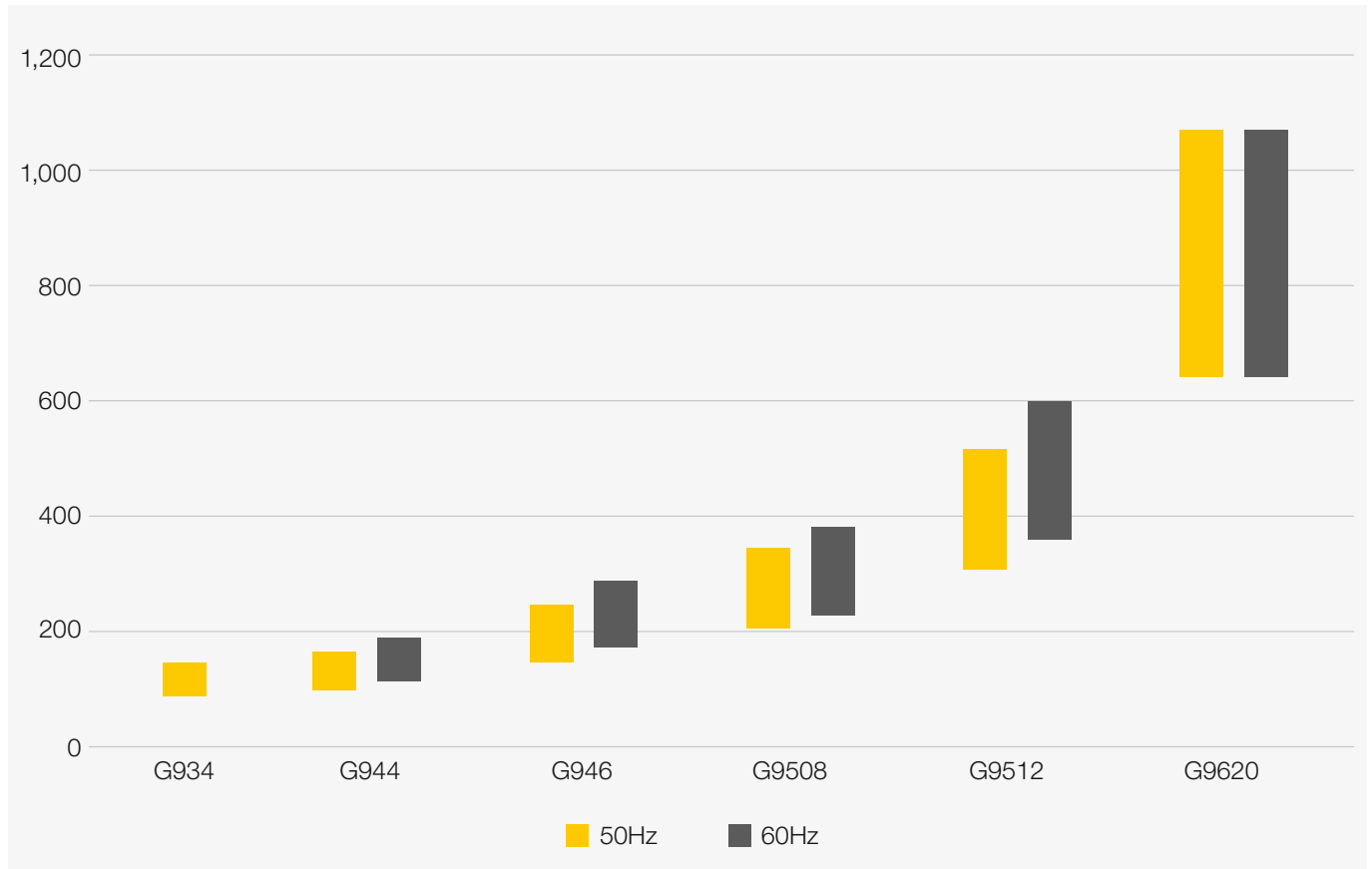
This is the result of over 30 years of experience, careful selection of components, intensive development work and a high degree of system integration in the area of hard and software.

### **Specific features of the G9620:**

The G9620 is equipped with integrated air-filters, on-engine Liebherr ECUs with calibrated datasets and an entirely new water-cooling concept. This guarantees a great flexibility in applications on a wide spectrum of different gases. Due to two different versions of the G9620, a high efficiency and a high response version, the gas engine is available for both in net parallel work and island mode, as well as in 50 or 60 Hz applications.

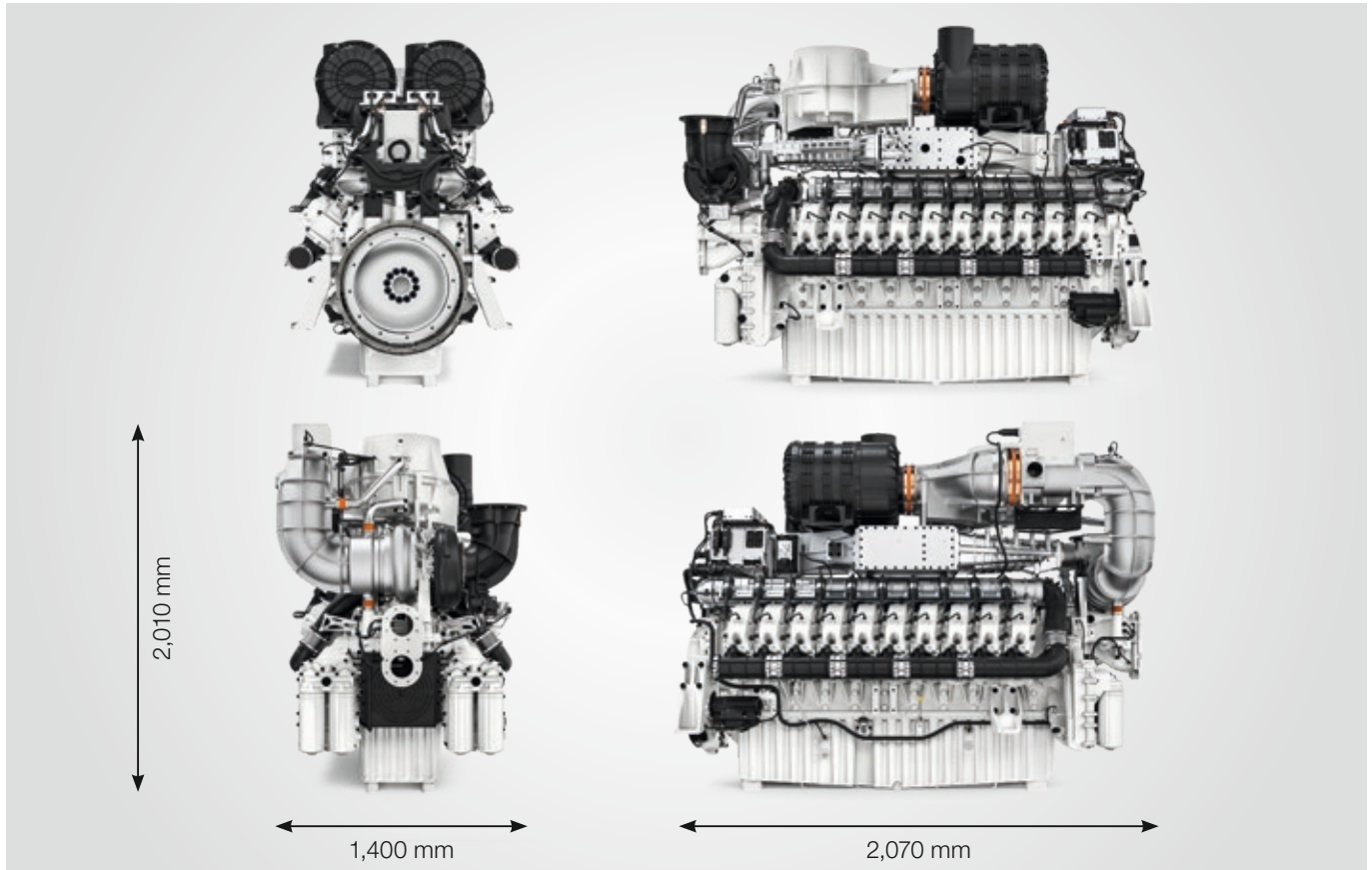
# Power Range

## Gas Engine Portfolio and Product Overview



### Product overview

Type	G9620		
Full equipment availability	yes		
Configuration	20 in V configuration		
Cylinder capacity	dm <sup>3</sup>	48.7	
Bore	mm	135	
Stroke	mm	170	
Dry Weight	kg	4,000	
Dimensions (LxWxH)	mm	2,070 x 1,400 x 2,010	
		50 Hz	60 Hz
Rated speed	rpm	1,500	1,800
ISO-standard performance/ output	kW	1,060	1,070
Max. effect. mean pressure	bar	17.4	14.6
Air ratio	λ	>1.6	>1.6
Flywheel housing	SAE 0		
Mass moment of inertia	kg*m <sup>2</sup>	8.0	
Mechanical efficiency (ISO 3046-1 and MN80)	%	44	



### Emission values (TA Luft)

NO <sub>x</sub>	mg/Nm <sup>3</sup>	< 500 by 5% residual oxygen, standard data set
CO	mg/Nm <sup>3</sup>	< 650 by 5% residual oxygen
HC	g/Nm <sup>3</sup>	< 2 by 5% residual oxygen

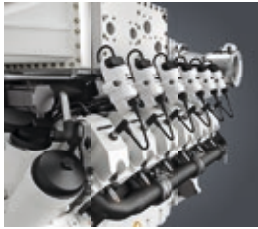
### Scope of supply

- with throttle valve and actuator
- with two stage intercooler
- with engine control and ignition system
- with knocking control system
- with gas/air mixer
- with starter
- with spark plugs
- with turbo charger
- with engine supports
- knocking sensor with on filter

### Sensor equipment

- Cooling water temperature sensor
- Cooling water pressure sensor
- Engine oil temperature sensor
- Engine oil pressure sensor
- Gas mixture temperature sensor
- Gas mixture pressure sensor (behind intercooler)
- Speed sensor (2 pcs.),
- Ignition pick-up sensor

# Liebherr Components



Gas engines



Diesel engines



Fuel injection systems



Axial piston hydraulics



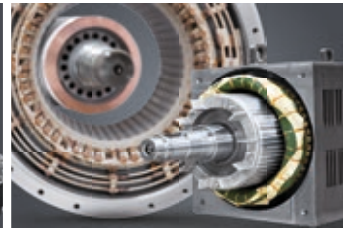
Hydraulic cylinders



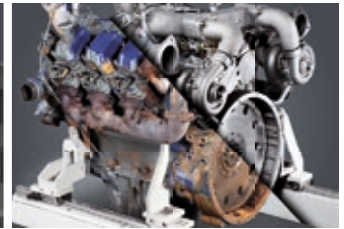
Slewing bearings



Gearboxes and winches



Electric machines



Remanufacturing



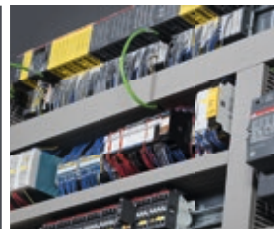
Human-machine interfaces and gateways



Control electronics and sensor technology



Power electronics



Control cabinets



Software

From A to Z – the components division of the Liebherr Group offers a broad range of solutions in the area of mechanical, hydraulic, electric and electronic drive system and control technology. The efficient components and systems are produced at a total of ten production sites around the world to the highest standards of quality. Central contact persons for all product lines are available to our customers at Liebherr-

Components AG and the regional sales and distribution branches.

Liebherr is your partner for joint success: from the product idea to development, manufacture and commissioning right through to customer service solutions like remanufacturing.

**[components.liebherr.com](http://components.liebherr.com)**