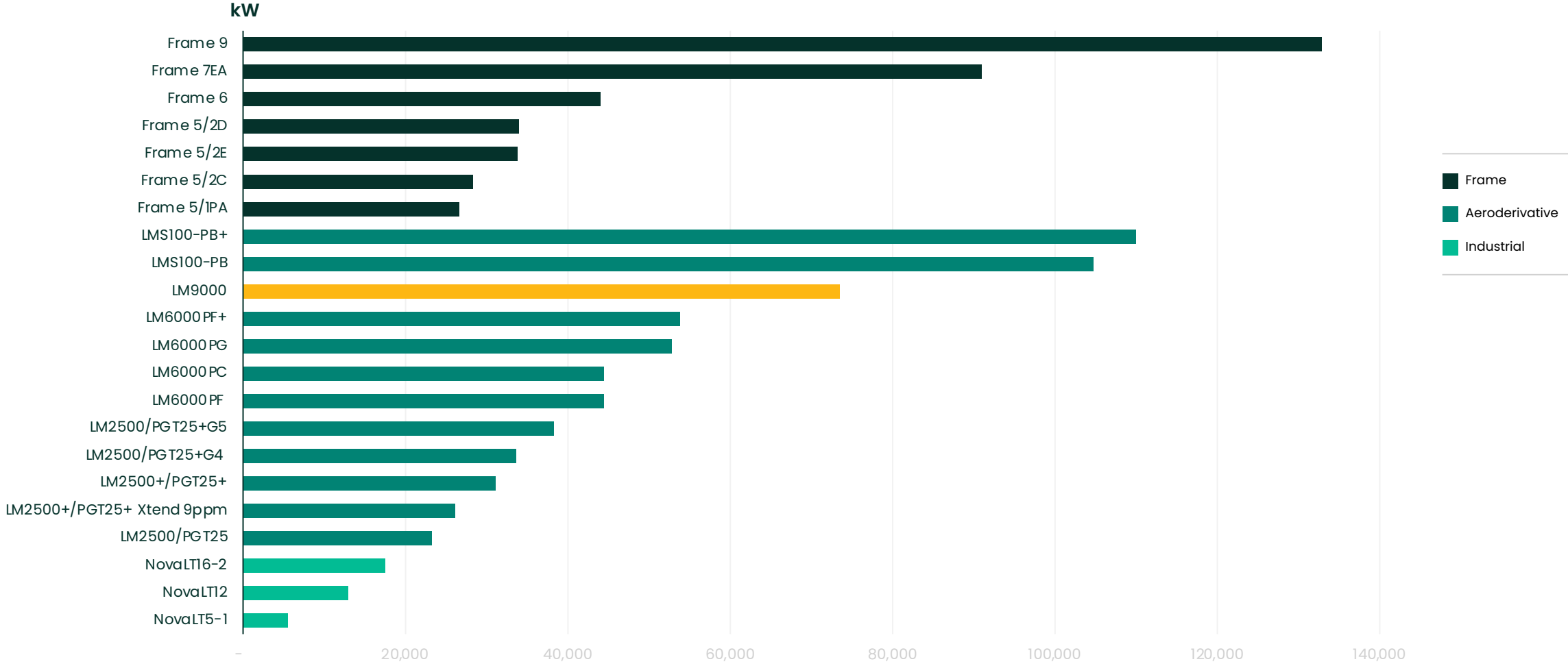


LM9000 gas turbine (73.5 MW, 50/60 Hz)

The world's most efficient simple-cycle gas turbine

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Industry leader in gas turbine technology



LM9000

Fast power availability with minimum carbon footprint

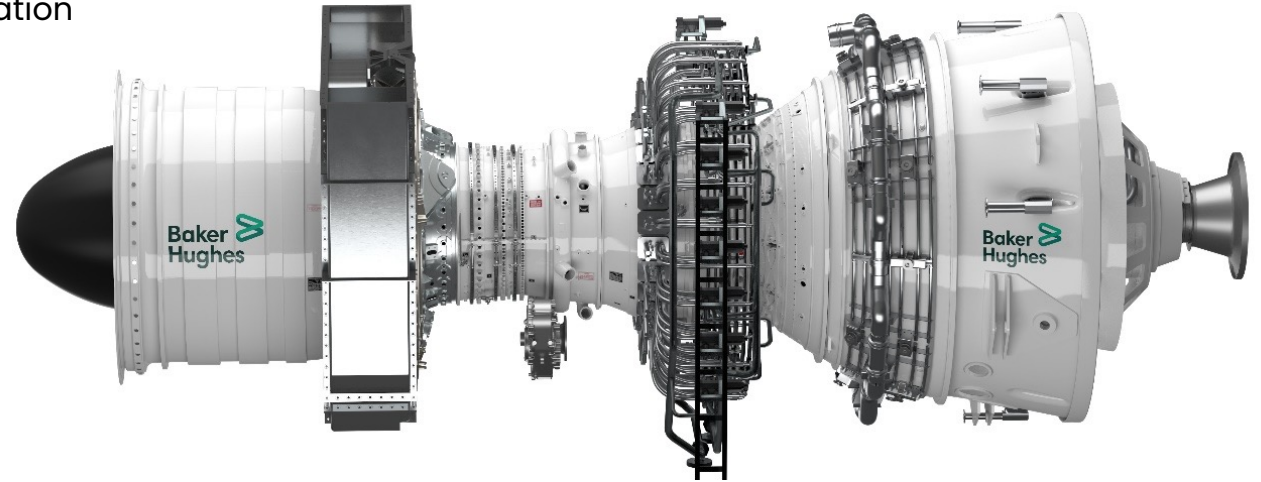
The LM9000 aeroderivative gas turbine has the highest availability and best total cost of ownership in its power class. Its DLE technology enables dual-fuel capability and reduces NOx emissions while eliminating water use in emissions abatement.

Key technical and benefits

- Output: 73.5 MW in mechanical drive
- 44% efficiency in simple cycle, 80% in cogeneration
- Higher availability thanks to long maintenance intervals, and modular package enabling 24-hour engine swap
- Pressurized LNG compressor startup capability without a helper motor
- Compact, modular package for fast installation and lower costs than field-erected units; ideal for stringent space requirements
- Designed for easy inspection and condition-based maintenance—delivering high reliability and maintainability

Main applications

- LNG
- Industrial power generation



Package

Overview

The LM9000's modular package design enables shorter manufacturing cycles and faster installation—and the compact footprint helps meet stringent space requirements.

It includes all the lessons learned from our most successful aeroderivative and industrial gas turbine packages.

And it leverages our LM6000 SeaSmart mini-skid concept to maximize safety and enable 24-hour engine swap during major overhauls.



Datasheet

Mechanical drive

Power	MW	73.5
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Efficiency	%	44
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NOx	ppm	15
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Exhaust	°C	455
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Speed	RPM	2,400 to 3,780
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Main inspections

Boroscope	hr	12,000
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Hot section	hr	36,000
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Major insp.	hr	72,000
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Power generation (50/60 Hz)

Power	MWe	71.1
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Efficiency	%	42
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NOx	ppm	15
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Exhaust	°C	456
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Speed	RPM	3,000 to 3,600
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Package

LxWxH	m	13.3 x 5 x 18.2
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Weight	ton	77
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Other capabilities

- Single annular combustor technology
- Gas only; dual fuel (gas + liquid) capability in development
- 36 to 55 MWI fuel flexibility
- Up to 5% vol H₂ capability