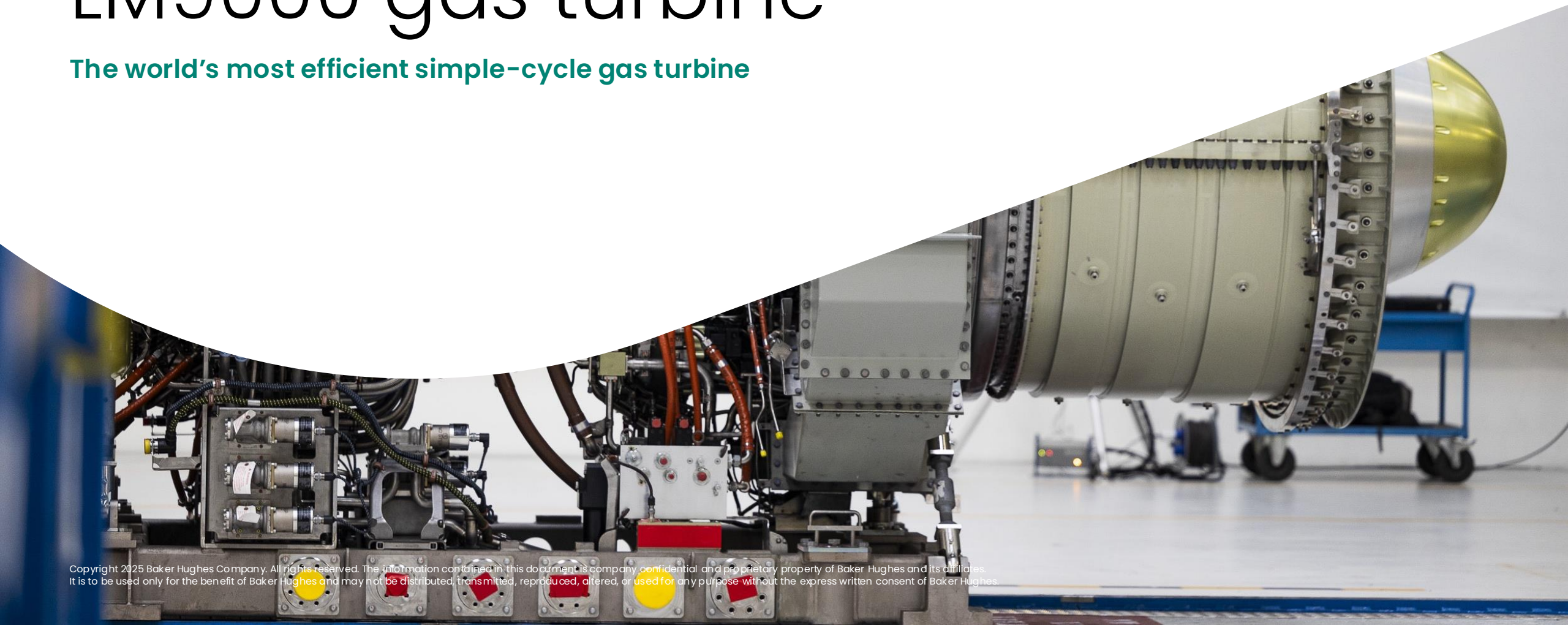
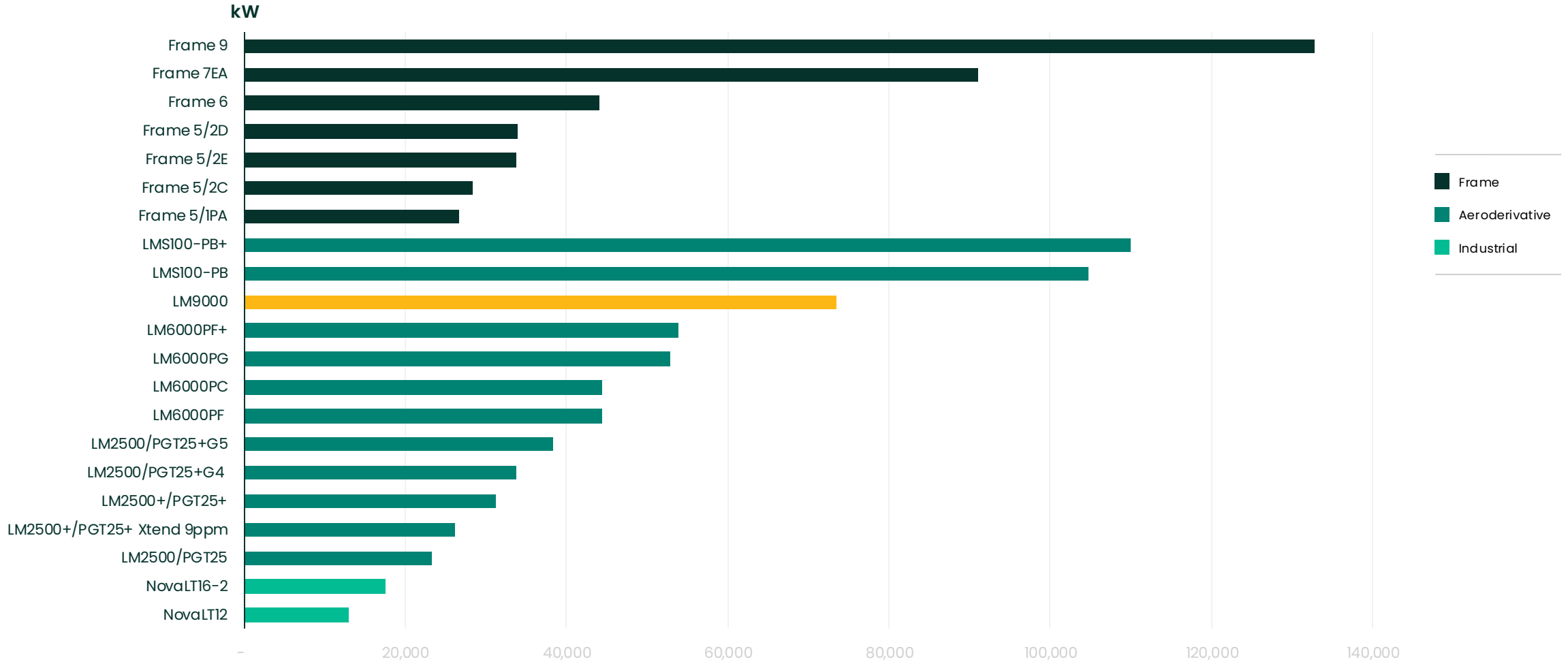
Baker Hughes

LM9000 gas turbine

The world’s most efficient simple-cycle gas turbine



Industry leader in gas turbine technology



Baker Hughes

LM9000

Fast power availability with minimum carbon footprint

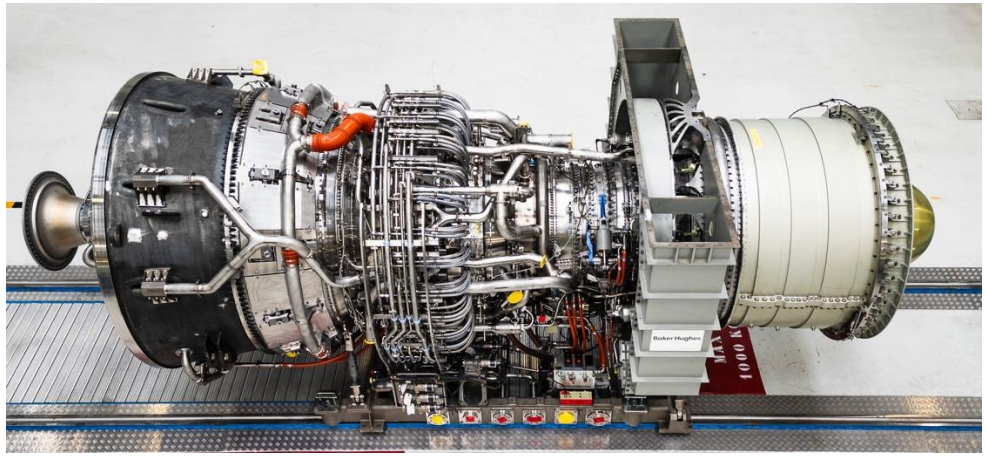
The LM9000 aeroderivative gas turbine has the highest availability and best total cost of ownership in its power class. Its DLE technology enables dual-fuel capability and reduces NOx emissions while eliminating water use in emissions abatement.

Key technical features and benefits

- Output: 73.1 MW in mechanical drive
- 44.2% efficiency in simple cycle, 56% in cogeneration
- Higher availability thanks to long maintenance intervals
- Modular package with mini-skid 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, both onshore and floating
- Industrial power generation



Baker Hughes

LM9000

Package

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.

Overview

- The LM9000's modular package design enables shorter manufacturing cycles and faster installation, while the compact footprint helps meet stringent space requirements.
- It includes all the lessons learned from our most successful aeroderivative and industrial gas turbine packages.
- It leverages our LM6000 SeaSmart mini-skid concept to maximize safety and enable 24-hour engine swap during major overhauls.

Data Sheet

Mechanical Drive

Power	MW	73.1
Efficiency	%	44.2
NOx	ppm	15-25
Exhaust	°C	455
Speed	RPM	2,400 to 3,780

Power Generation (50/60Hz)

Power	MWe	70.2 / 71.4
Efficiency	%	42.8 / 43.1
NOx	ppm	15-25
Exhaust	°C	456
Speed	RPM	3000/3600

Main Inspections

Borescope	hrs	12.000
Supercore	hrs	36.000
Full Engine	hrs	72.000

Package

LxWxH	m	13.3 x 5 x 18.2
Weight	ton	77

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 H_2capability

ISO conditions with natural gas fuel, ambient temperature 15°C, no inlet or exhaust losses, sea level, 60% relative humidity. Package dimensions driven equipment excluded,

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