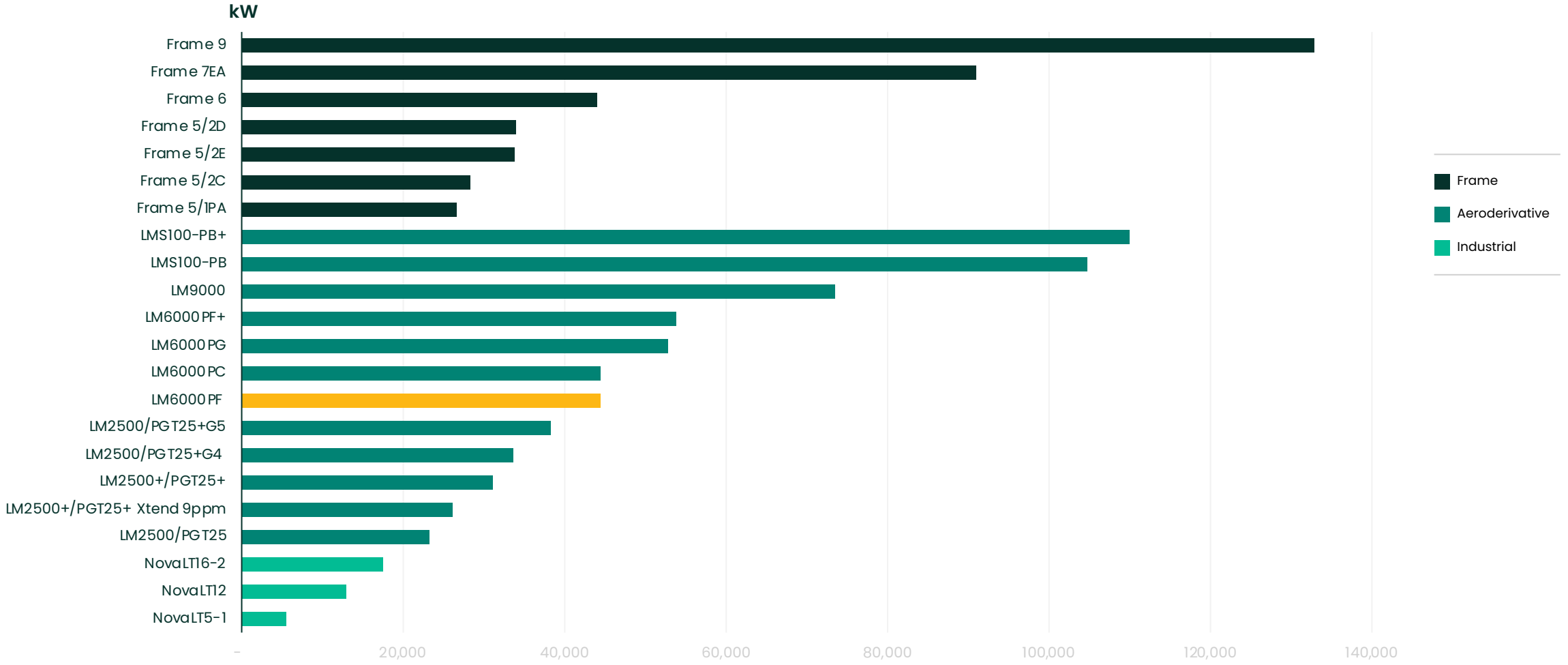
Baker Hughes

LM6000PF aeroderivative gas turbine

30-year heritage of proven performance

Industry leader in gas turbine technology



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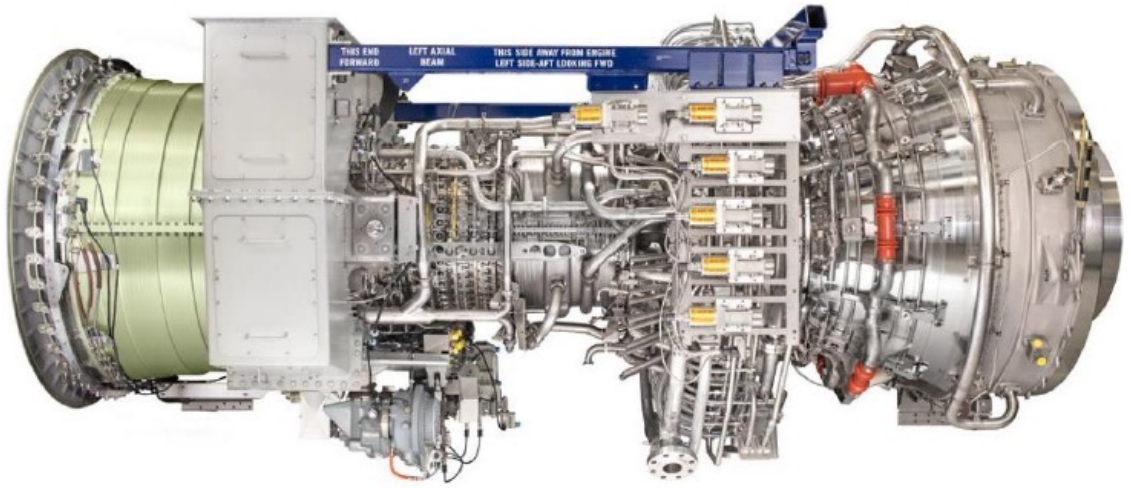
LM6000PF

Supporting customer projects across applications since 2004

With a long, successful history, the LM6000PF aeroderivative gas turbine combines our latest innovations with the best proven technologies and operating experience from more than 5,000 aircraft engines with over 450 million flight hours, and over 1,300 LM6000 units with 40+ million operating hours in the last 30 years.

With 44.5 MW shaft power, this turbine can quickly ramp up and down to match demanding operating requirements. It's ideal for LNG mechanical drive thanks to startup capability with pressurized LNG compressor, without helper motor assistance.



Key features

- Double co-axial shafts for loaded startup capability
- Compressor has 5 low-pressure and 14 high-pressure stages for outstanding efficiency, and adjustable vanes for best operating flexibility
- Well-proven dry low emission (DLE 1.5) combustion system
- 2-stage high-pressure turbine and 5-stage low-pressure turbine with optimized airfoils for high efficiency and reduced CO_2 emissions

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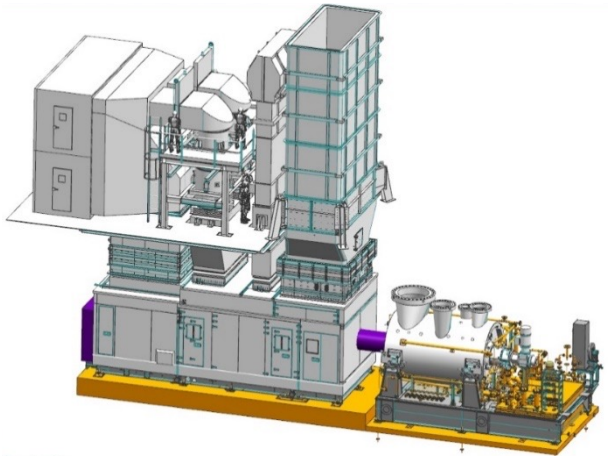
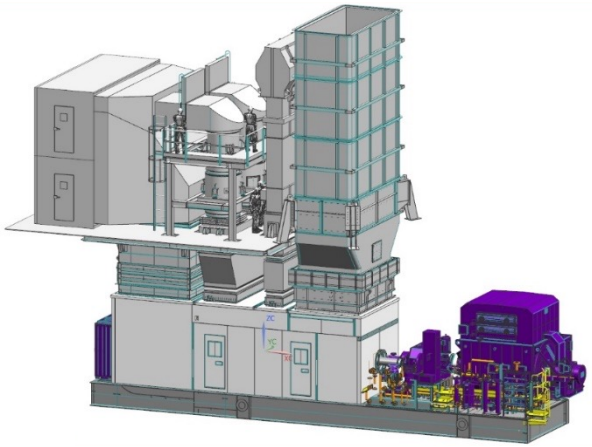
Package

Onshore and offshore solutions

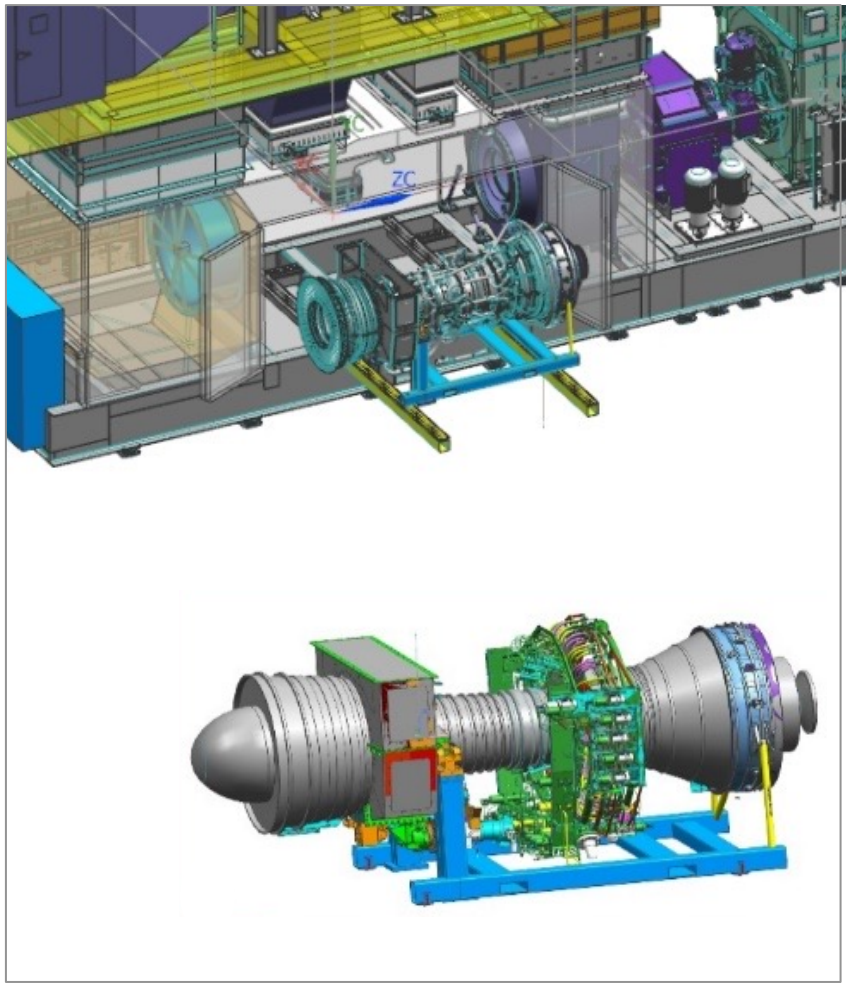
- Optimized slide-off turbine design with mini-skid concept for engine swap in less then 24 hours for maximized availability
- Multipoint AVM for lightweight single-lift design and uniformly distributed load
- Remote I/O panel available
- Aerosol fire-protection system to minimize footprint and weight by eliminating interconnecting piping and cables



Onshore mechanical drive



Offshore single-lift power generation



Mini-skid for engine swap

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LM6000PF datasheet

Mechanical drive

Power	MW	44.1
Efficiency	%	41.4
NOx	ppm	15
Exhaust	°C	463
Speed	rpm	3,600

Power generation

Power	MWe	43.3
Efficiency	%	41.2
NOx	ppm	15
Exhaust	°C	457
Speed	rpm	3,600

Single-lift power generation package

LxWxH	m	20x5
Weight	ton	280

Gas turbine package

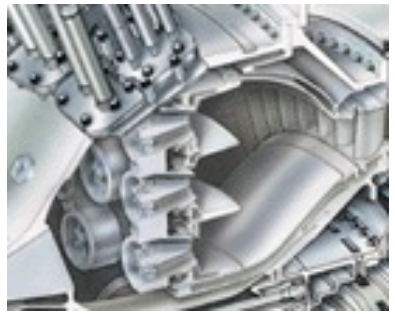
LxWxH	m	12x4.8
Weight	ton	160

Main inspections

HGP	hr	25,000
Major insp.	hr	50,000

Capability highlights

- Ideal for LNG mechanical drive application thanks to startup capability with pressurized LNG compressor, without helper motor assistance
- Reduced CO_2 emissions thanks to the high simple-cycle efficiency
- Dry low emission (DLE 1.5) technology for less than 25 ppm NOx emissions at 75–100% load
- 40–60 MWI fuel flexibility with more than 10%/min rate of change
- Experienced burning 9% vol H_2



DLE technology

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

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Projects

LNG mechanical drive and power generation

Australia

Offshore power generation

Norwegian Sea

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