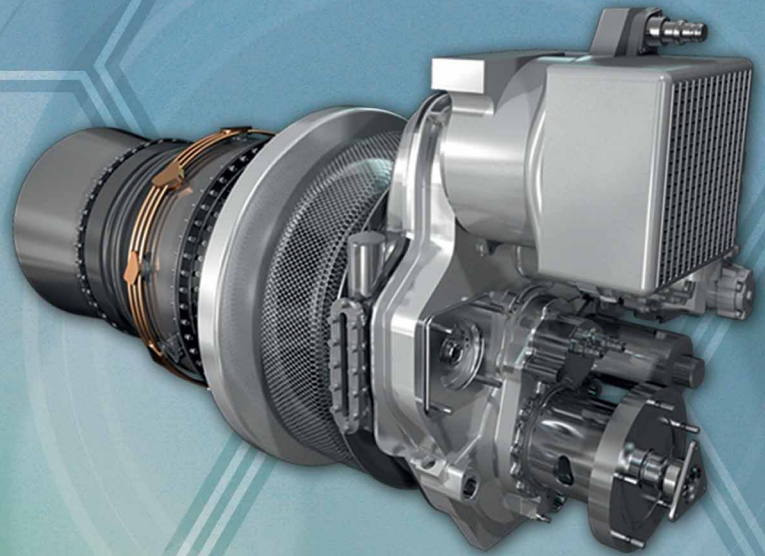


Arrano

INTRODUCING THE NEW ARRANO ENGINE GENERATION

WHEN RELIABILITY MEETS SOPHISTICATION



Our most innovative engine is backed by 75+ years of experience. That's what we call proven innovation.

Since 1938, Turbomeca has achieved key milestones in the field of helicopter turbine engines. Arrano, our latest engine generation, is the most innovative product in its class: it integrates true technological breakthroughs regarding safety, performance gains and fuel consumption reduction.

Arrano was born from a customer-focused approach: it is designed to offer you new mission opportunities, while maintaining a high growth potential.

> New mission opportunities

- More range and more payload.
- Longer station time over ground effect.
- Higher OEI performances, especially in hot and high environments.

> Enhanced flight safety

- Revolutionary maturation plan before EIS.
- 4th generation dual-channel FADEC:
 - reduces pilot workload,
 - performs engine health monitoring at all times,
 - signals pilot actions on cockpit display.
- Engine Data Recorder.

> Lower direct operating costs

- Reduced specific fuel consumption thanks to:
 - variable inlet guide vane,
 - twin-stage centrifugal compressor,
 - 3D free turbine blades.
- High TBO at entry into service.

> Lighter maintenance

- Scheduled tasks are divided by 5.
- Maintenance time is reduced by up to 40%.
- No mid-life inspection.
- Long life cycle components.

ARRANO ENGINE ID

- > Power class: 1,100-1,300 shp
- > 1st application: Airbus Helicopters H160
- > 1st flight: 2015
- > Certification: 2017

Safety is key to your business. In order to reach further and carry more, you need the most cost-efficient, reliable and versatile power solution: **Arrano was designed to deliver the performances that really matter to you.**

> ARRANO BRINGS YOU REAL VALUE

> More Range

> More Payload

> Reduced Fuel consumption

Up to -15%*

> Lighter maintenance

Up to -40%*

> Less emissions

Clean Sky

> Anytime, anywhere

> Exclusive services

> Safety first

* Compared to current engines.



1st application: Airbus Helicopters H160

Turbomeca is dedicated to the design, production, sale and support of gas turbines for helicopters. Turbomeca offers the world's most comprehensive range of engines, along with strong industrial cooperation associated to close-by customer services structures.

Dedicated to 2,500 customers in 155 countries, Turbomeca provides a proximity service thanks to its 16 sites (and one subsidiary), 18 Repair & Overhaul Centers and 90 Field representatives and Field technicians.

Turbomeca current network is composed of 36 Certified Maintenance Centers. This figure will almost triple by the end of the decade.



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