

Arrius 2B2^{plus}

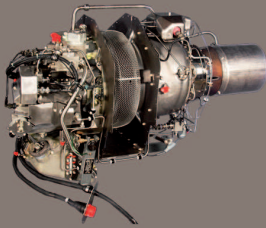
FOR THE NEW EC 135



Welcome in a world of safety, innovation, reliability and proximity

The Arrius 2 family last generation of Arrius engines has been specifically developed to power light single and light twin helicopters. The Arrius 2B2^{plus} incorporates the latest achievements in terms of design, technology, control systems, and maintenance concept.

The Arrius 2B2^{plus} offers the highest performance in its class and allows for pilots to handle the most demanding missions with a high level of safety. As Engine helicopter professional, Turbomeca has developed Arrius 2B2^{plus} based on your needs .



The Arrius 2 family

- > Maturity: over 4,000,000 operating hours.
- > Over 2,200 engines delivered.
- > Entered service in 1996.

> The Arrius 2 experience

- Serves EMS, Police & Parapublic, Military, Corporate & VIP, utility, Tourism.
- Implementation of the latest technical modifications for higher reliability and cost reduction.
- Maximum commonality with the ARRIUS 2B2 engine.

> The Arrius 2B2^{plus} power

- More engine power in the flight envelope.
- Improved mission capability with more payload.

> Low direct maintenance costs

- 4,000 hours TBO.
- High & proven reliability.
- Increased availability of your engine.

> New single-channel FADEC

- Improves overall safety standard.
- Reduces pilot work load.
- Indicates operational parameters.
- Signals maintenance actions by automatic engine overrun display.

Arrius 2B2^{plus} GENERATING POWER AND PERFORMANCE

> Helicopters:



Maintaining close contact with Arrius 2B2^{plus} operators worldwide

- Turbomeca-approved Repair & Overhaul centers.
- 24/7 Turbomeca hotline.

Reduction gear

- Designed and tested with high torque and speed margins: (torque 30%, speed 4%).

Power output shaft

- 5,900 rpm (in 100%).

New Engine Electronic Control Unit

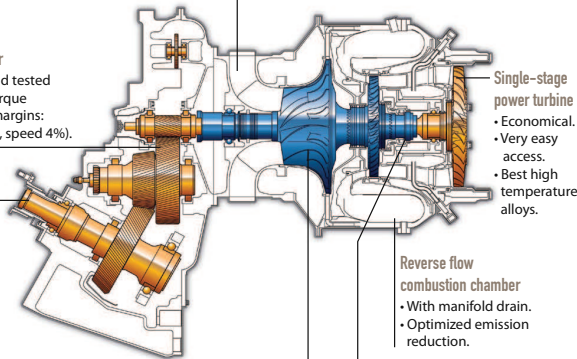
- More than 20 years of experience.

Single-stage centrifugal compressor with high compression ratio

- High surge margin.
- Low engine installation losses.

Air intake

- Lowest engine installation losses on the market.



Single-stage power turbine

- Economical.
- Very easy access.
- Best high temperature alloys.

Reverse flow combustion chamber

- With manifold drain.
- Optimized emission reduction.

Single pedestal bearings

- One generator rear bearing and one power turbine front bearing on one single pedestal = lowest oil rejection levels.

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 17 sites and 1 subsidiary, 42 certified Maintenance Center, 18 Repair & Overhaul Centers and 90 Field representatives and Field technicians.

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Turbomeca DG/COMM - Tim Tam Design - Photo credit: ©Turbomeca - Airbus Helicopter (RAC - ABARR/Chaffin) - CDR-1 (02/14)

> Thermal Power ratings (ISA, sea level, kW/shp):

Arrius	Arrius 2B2 ^{plus}
> Application	EC 135
> One Engine Inoperative (OEI)	
OEI 30 sec.	610 / 818
OEI 2 min.	590 / 791
OEI continuous	540 / 724
> All Engines Operative (AEO)	
Take-off	492 / 660
Max. continuous	463 / 621

> The Arrius 2B2^{plus} maintenance strength:

- Easy engine installation and simple modular design
- All engine parts replaceable in the field
- A service range flexible and adapted to your operational constraints
- Your operations facilitated by an innovative service: B.O.O.S.T
- Very low scheduled maintenance: less than 2 minute per flight hour.

TURBOMECA

64511 Bordes CEDEX - France
Tel. +33 (0)5 59 12 50 00 - Fax +33 (0)5 59 53 15 12
www.turbomeca.com

