

ARRIUS 2B2

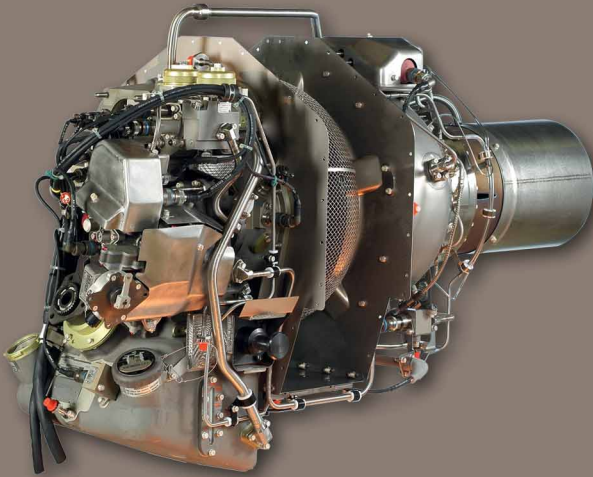
FOR THE EC 135

GENERATING POWER AND PERFORMANCE



The Arrius family new generation turboshafts have been specifically developed to power light singles and light twins.

The Arrius 2B2 incorporates the latest achievements in control systems, materials and aerodynamic technologies.



The Arrius family

- > Entered service in 1983.
- > Maturity: over 5,000,000 operating hours.
- > 2,700 engines delivered.

> The Arrius 2B2 experience

- Has the lowest smoke number ever.
- Serves EMS, SAR, Police, VIP, aerial work, corporate, off-shore.
- Arrius customers flying from deserts to Arctic.
- Customers flying hot & high into harsh environments.
- Standard EECU.

> Simple modular design

- Very low scheduled maintenance: under 1 minute per flight hour.
- Few maintenance tools.
- Wholly replaceable modules.

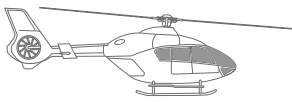
> Low direct maintenance costs

- Extended 4,000 hours TBO.

> Engine Electronic Control Unit experience

- Improves overall safety, reduces pilot work load.
- Indicates operational parameters.
- Drives engine life safely to its TBO limit.
- Maintenance actions signalled by automatic engine overrun display.

> Helicopters:



EC 135
powered by two Arrius 2B2

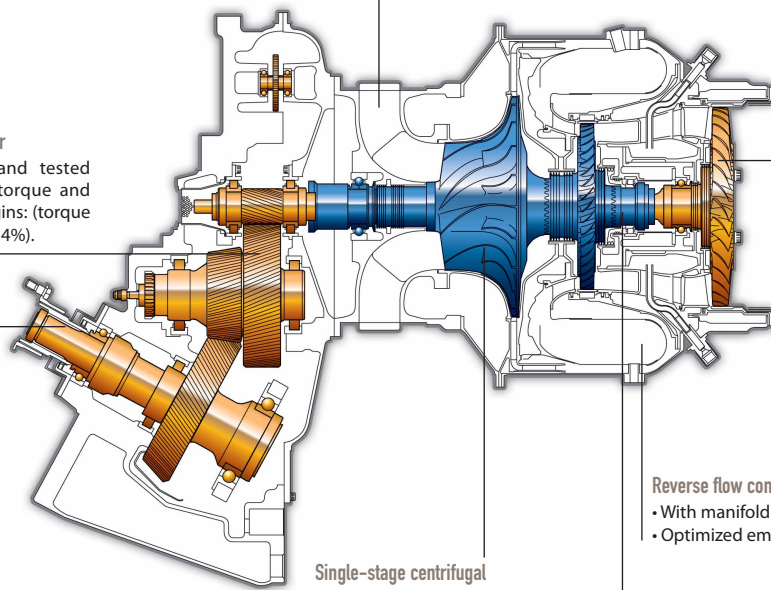
Engine Electronic Control Unit
• More than 20 years of experience.

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

Power output shaft
• 6,000 rpm.

Maintaining close contact with Arrius 2B2 operators worldwide
• Turbomeca-approved Repair & Overhaul centers.
• 24/7 Turbomeca hotline.

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-stage centrifugal compressor with high compression ratio
• High surge margin.
• Low engine installation losses.

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

> Technical Characteristics (ISA, sea level, kW/shp):

Arrius	2B2	Max. cumulated duration*
> Application	EC 135	
> One Engine Inoperative (OEI)	kW/shp	
OEI 30 sec.	610/818	3 minutes
OEI 2 min.	590/791	12 minutes
OEI continuous	540/724	Unlimited
> All Engines Operative (AEO)	kW/shp	
Take-off	472/633	5 minutes duration
Max. continuous	439/589	Unlimited

* Torque and TOT

> Geared to rapid response:

- The Arrius 2B2 offers the highest performance in its class and allows for pilots to handle the most demanding missions.

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 2,350 customers in 155 countries, Turbomeca provides a proximity service thanks to its 16 sites, 26 Maintenance Centers, 24 Repair & Overhaul Centers and 90 Field representatives and Field technicians.



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