

# ARRIEL 2D

FOR THE AS350 B3e AND EC130 T2

PROVEN DESIGN, LOW COST, RELIABILITY & HIGH PERFORMANCE



Since 1978 Turbomeca (Safran group) has produced over 10,000 Arriel engines.

Between them they have accumulated more than 32 million flying hours, many while operating in extreme conditions.

Over 30 years of knowledge and experience with the Arriel family are invested in the 29<sup>th</sup> variant-the Arriel 2D.

The new Arriel 2D delivers low cost, reliability and performance

#### > LOW Operating Costs

- 4,000 hour TBO at Entry-into-Service, with the opportunity to extend to 6,000 hours by implementing on-condition monitoring program.
- Reduced specific fuel consumption.
- Reduced maintenance costs via innovative new monitoring system.

#### > HIGH Reliability / Maintainability

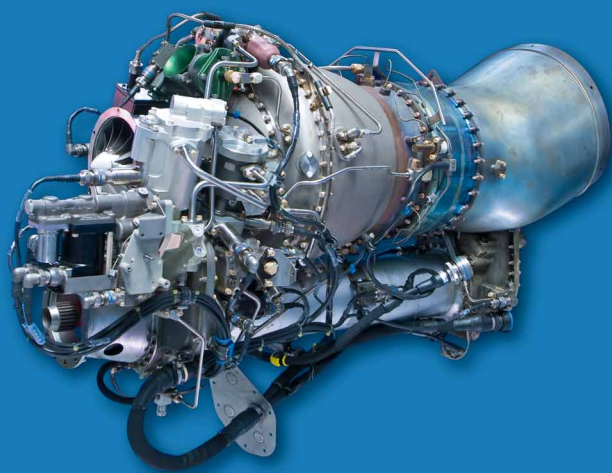
- Proven technologies and extensive experience.
- **New generation dual-channel FADEC:**
  - Classic functions: automatic start protection and N1/N2 recording, automatic oil and fuel system monitoring.
  - HP blade creep-monitoring for additional savings.
- **Engine Data Recorder (EDR)**
  - FADEC memory dump for faster data transfer.
  - Capture and store data to facilitate preventive maintenance.
  - Link to Turbomeca diagnostic services via interactive secure internet portal (coming soon).

#### > HIGH Performance

- The Arriel 2D delivers all the power pilots need for demanding utility operations, especially during take-off and landing.
- The Arriel 2D offers a selectable 30 minute take-off power rating for occasional use.

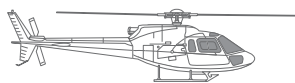
#### > FULLY interchangeable and total commonality

- Spare
- Tooling
- Training ...

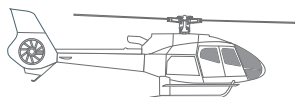




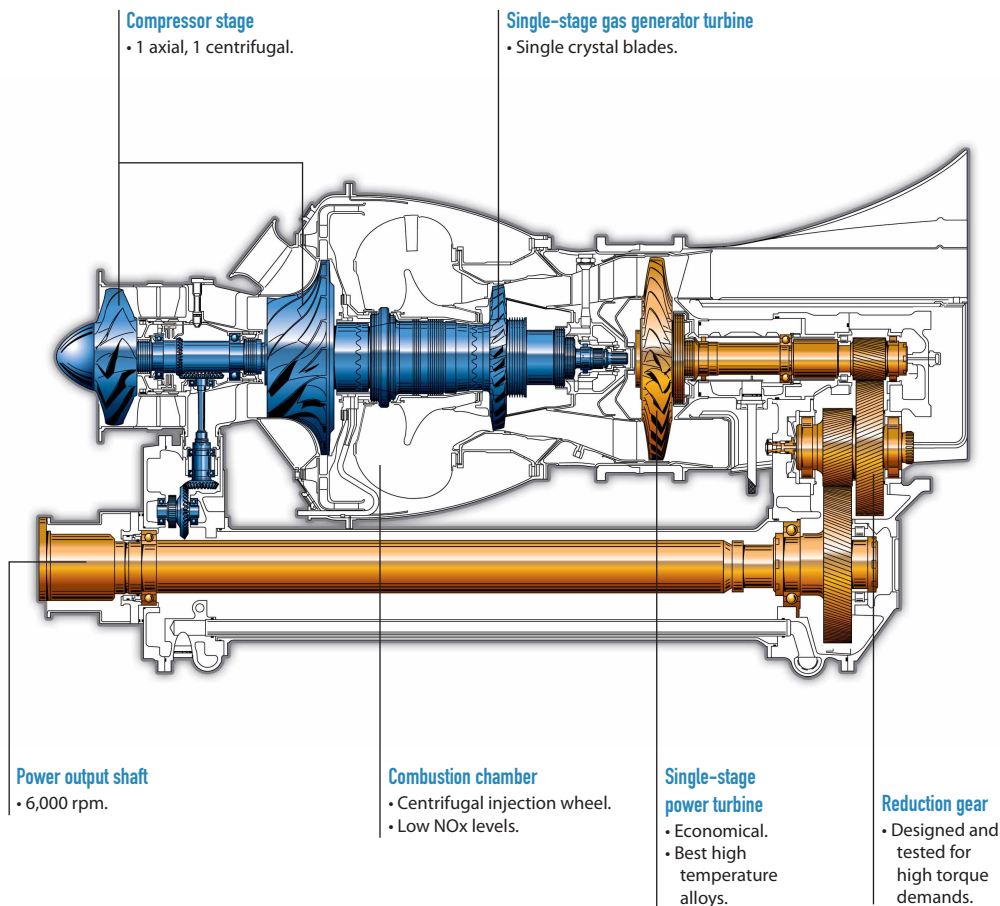
> Helicopters:



AS350 B3e Ecureuil  
Single Arriel 2D



EC 130 T2  
Single Arriel 2D



> Power rating (shp/kW):

	EC130 T2	AS350 B3e
> Take-off	952 / 710	848 / 632
> Max. continuous	856 / 638	728 / 543
> 30 min power	952 / 710	848 / 632

> Description:

- The Arriel 2D comprises five modules providing simplified maintenance at low cost. It is controlled by a new-generation **dual-channel FADEC**, a benchmark for efficient power control and fuel consumption. The **new design** of many of its components enhances its already high performance and ensures that the Arriel remains the most reliable engine in its class.
- The EDR, together with the blade-creep monitor, further shifts the emphasis from **traditional to pre-emptive maintenance**. These innovations also drastically reduce unscheduled removals and significantly improve helicopter availability.

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 local customer service 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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