

ARRIEL 2B/2C

FOR THE AS 365 N3 / EC 155 / EC 130 / AS 350 B3

PROVEN DESIGN, LOW COST, RELIABLE & HIGH PERFORMING



Since its launch in 1977, 28 versions of the Arriel family have been developed to meet different airframe and mission requirements. The Arriel 2 powers the AS 350 B3, EC 130, AS 365 N3, EC 155 and the US Coast Guard's HH 65 Dolphin.

Generating Power and Performance

> The Arriel 2 experience

- Reduces operating cost through optimized acceleration modes.
- Clean burning with significantly low NOx levels.
- Best weight-to-power ratio in its category.

> Missions

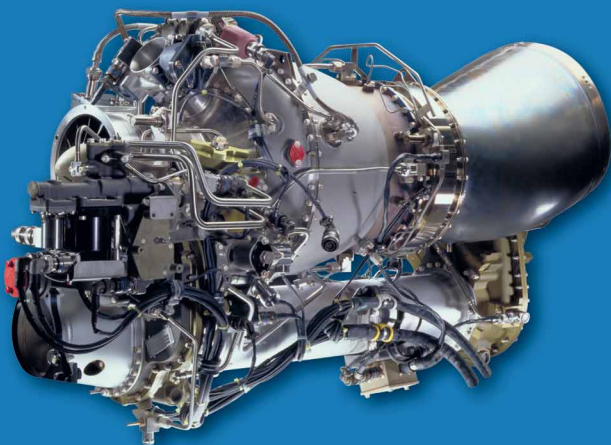
- EMS, SAR, Police, VIP, aerial work, corporate, off-shore liaison.

> Engine Electronic Control Unit

- Improves overall safety, reduces pilot work load.
- Indicates operational parameters.
- Drives engine life safely to its TBO limit.
- Signals maintenance actions on automatic engine overrun display.
- The 2B/2C versions are controlled by a single channel EECU with integrated manual back-up.

> Dual channel Engine Electronic Control Unit

- The Arriel 2B1, 2C1 and 2C2 use dual channel EECUs associated with automatic third channel back-up. Turbomeca is the first engine manufacturer to offer dual channel EECUs for the civil market.



The Arriel family

- > 25 years of outstanding reliability.
- > 32 Millions operating hours.
- > 10,000 engines delivered.

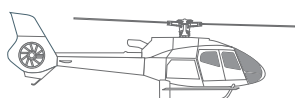
> Helicopters:



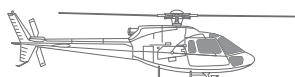
AS 365 N3 / HH 65 Dauphin
powered by two Arriel 2C / 2CG



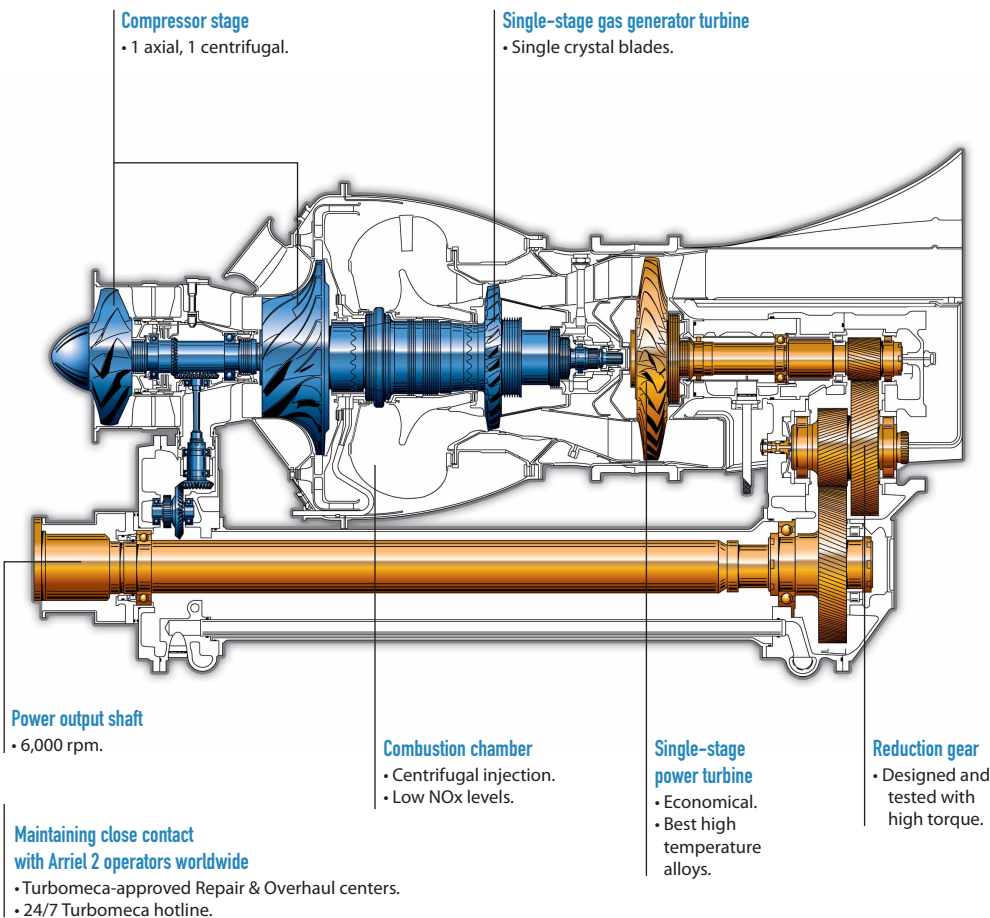
EC 155 B
powered by two Arriel 2C1 / 2C2



EC 130
powered by one Arriel 2B1



AS 350 B3 Ecureuil
powered by one Arriel 2B / 2B1



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

Arriel	2B/2B1	2C	2C1	2C2/2C2 CG
> Application	AS 350 B3 EC 130	AS 365 N3	EC 155	EC 155 HH65
> One Engine Inoperative (OEI)				
OEI 2.5 minutes		718/963	718/963	786/1,054
OEI 2.5 minutes		646/866	646/866	713/956
OEI continuous		626/839	626/839	686/919
> All Engines Operative (AEO)				
Take-off	632/848	626/839	626/839	704/944
Max. continuous	544/730	581/779	581/779	636/853

> Description:

- Compared to the Arriel 1 equipped with a 2-stage gas generator turbine, the Arriel 2 draws the benefits of the latest technology developments: the single stage turbine with single crystal blades brings 30% more power, with no increase in weight, to the Arriel 2C2 on the EC 155 B1.
- MTOW EC 155, Arriel 2C2: 4,850 kg / 10,692 lb (ISA sea level).
- OEI ratings can be used up to 10 minutes cumulated time in contingency (OEI 2 min.) for all variants; and for the Arriel 2C2 15 sec. cumulated for the super contingency (30 sec.) without any shop visit required.

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.



This document is intended for general information purposes only. Turbomeca reserves the right to modify the products and services described in this document without prior notice.