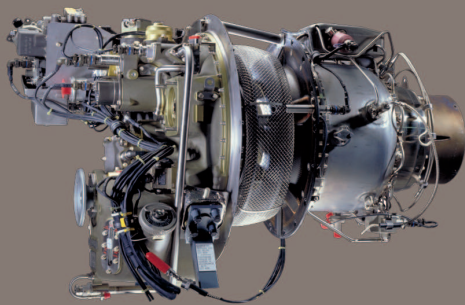


Arrius 2G1



Ka-226T helicopter

The Arrius family new generation turboshafts are developed to power light singles and light twins. The Arrius 2G1 maintains the same global structure as the Arrius family, incorporating the latest achievements in control systems, leading edge materials and aerodynamic technologies.



The Arrius family

- > Maturity: over 6,300,000 operating hours.
- > Over 3,000 engines delivered.
- > Entered service in 1983.

> The Arrius 2G1 advantages

- Proven reliability & durability.
- Unbeatable in hot and high conditions, superior responsiveness, best accelerations.
- Clean burning: Arrius 2G1 has extremely low smoke number.

> Simple modular design

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

> Reduced cycle consumption

- Life limited parts last 2 overhaul periods.
- Reduced operating costs.

> Low direct maintenance costs

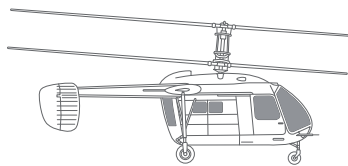
- Long TBO period: 3,000 hours.
- Extended component life, no HSI required.

> Engine Electronic Control Unit experience

- Improves overall safety, reduces pilot work load.
- Overspeed digital monitoring/limitation.
- Indicates operational parameters.
- Drives engine life safely to its TBO limit.
- Signals maintenance action and helps trouble shooting.
- OEI training function.

Arrius 2G1 GENERATING POWER AND PERFORMANCE

> Helicopter:



Ka-226T
powered by two Arrius 2G1

> Multi-purpose helicopter:

- Air ambulance and medical evacuation
- SAR
- Patrol/monitoring
- Passenger and cargo transportation

> Max take-off weight	3,800 kg
> Load-carrying capacity:	
• inside the cabin	1,000 kg
• at the external sling	1,100 kg
> Crew	1-2
> Passengers	up to 7
> Speed:	
• max	135 kts / 250 km/h
• cruise	119 kts / 220 km/h
> Max flight range	256 nm / 475 km

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

Arrius	Arrius 2G1	
> Application	Ka-226T	
> All Engines Operative (AEO)	kW	shp
OEI 2.5 min.	537	720
OEI continuous	457	613
> One Engine Inoperative (OEI)	kW	shp
Take-off	591	792
OEI непрерывно	537	720

> Geared to rapid response:

- Offering a high rate of climb the Arrius 2G1 delivers the superior rapid response pilots expect from a Turbomeca engine.
- MTOW Ka-226T, Arrius 2G1: in the range of 3,600 kgs / 7,936 lbs.

Maintaining close contact with Arrius 2G1 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

- 6,000 rpm.

Engine Electronic Control Unit

- More than 20 years of experience.
- Digital overspeed limitation.

Single-stage centrifugal compressor with high compression ratio

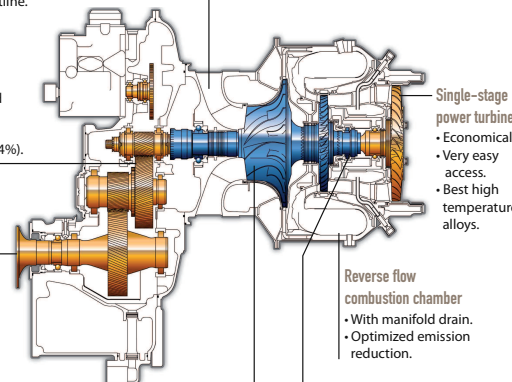
- High surge margin.
- Low engine installation losses.

Single pedestal bearings

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

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.

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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