

ATR 72-500

The Ultra Efficient Standard

The ATR 72-500 represents the Latest Generation of turboprop aircraft with technology, comfort, passenger appeal, performance and economics which open up new horizons to regional airlines worldwide. Providing exactly what the customer needs in a rapidly evolving market, ATR 72-500 is playing a major role in the growth of regional carriers, offering the lowest seat-mile costs in its class, great efficiency and reliability, key to efficient regional operation.

An Alenia Aeronautica and EADS joint venture

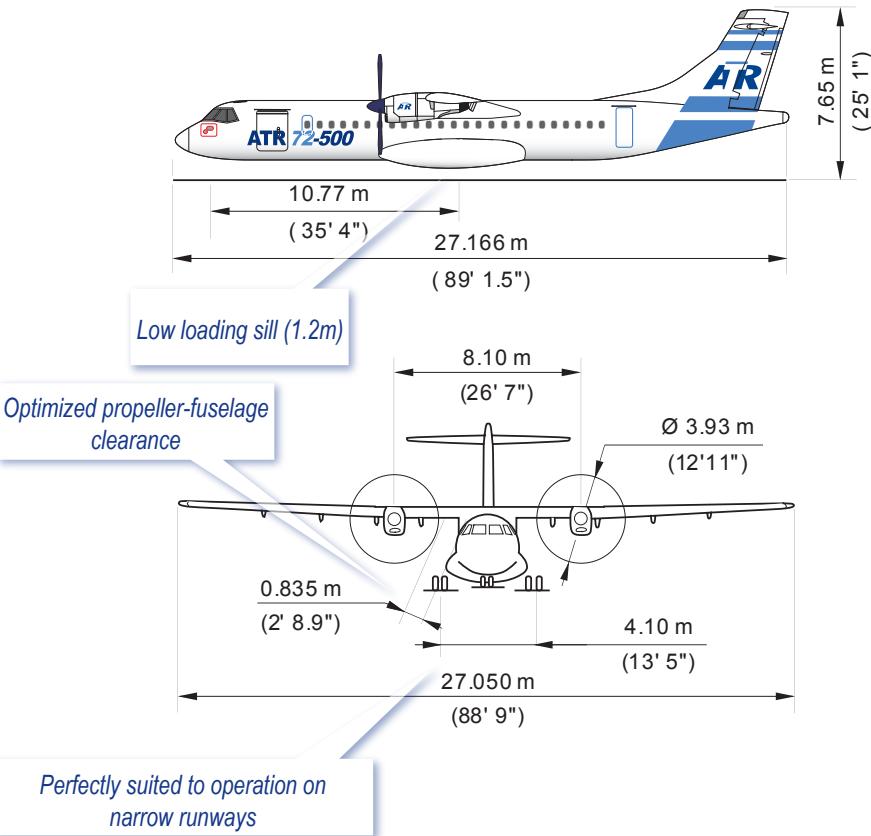
ATR

Technology Features

The ATR 72-500 is the latest development of the ATR 72. It benefits from the in-service experience of more than 700 ATR aircraft flying world-wide, with a proven average dispatch reliability of more than 99%.

- The ATR 72-500 incorporates:
- Totally renewed cabin interior design
 - Technologically advanced acoustic treatment
 - New propeller system
 - Excellent field performance

offering all the commonality benefits of the proven and successful ATR family and namely of the Latest Generation ATR -500 Series aircraft.



Dimensioned for Revenue

Making the Best Use of Available Space

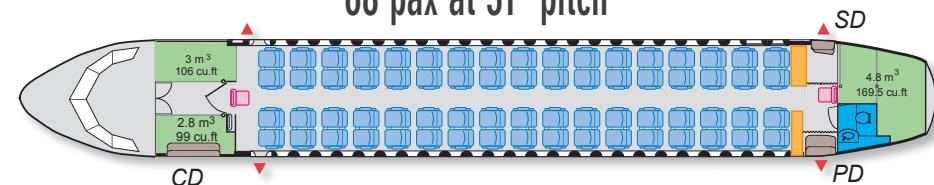


The standard ATR 72-500 with front cargo door configuration consists of 68 seats at a pitch of 31 inches, with a straight partition including a front cabin attendant station.

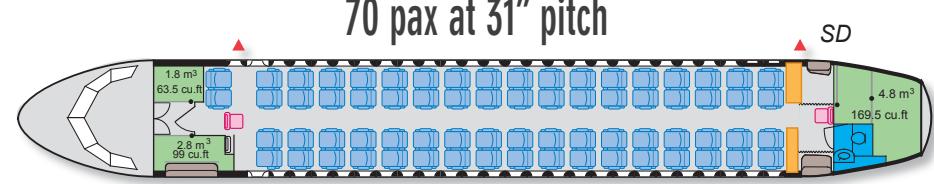
Two cargo areas are available:

- Front cargo compartment: volume 5.8 m³ (205 cu.ft)

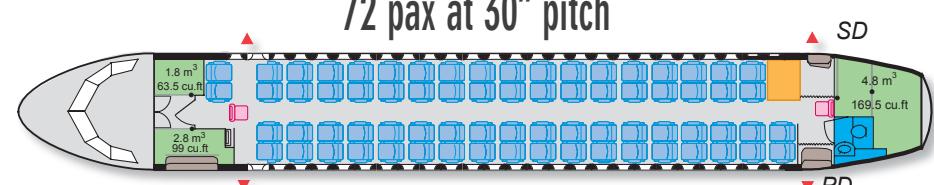
68 pax at 31" pitch



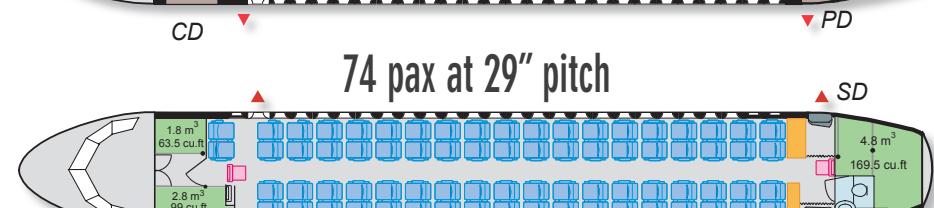
70 pax at 31" pitch



72 pax at 30" pitch



74 pax at 29" pitch



■ Attendant seat ■ Galley ■ Toilet ■ Baggage ▲ Emergency exit

PD: Pax door - CD: Cargo door - SD: Service door



Volumes	68 seats		70 seats		72 seats		74 seats	
	m ³	cu.ft						
Baggage compartment	10.6	374.3	9.4	332	9.4	332	9.4	332
Baggage per pax	0.156	5.51	0.134	4.74	0.131	4.61	0.127	4.486
Total baggage incl. overhead bins	13.75	485.6	12.62	445.7	12.65	446.7	12.62	445.7
Total baggage per pax	0.202	7.14	0.18	6.37	0.176	6.20	0.17	6.02

Worldwide Operation in Every Environment

Since its introduction, ATR 72-500 has become the regional air transport industry reference for reliability and profitability, providing unmatched seat mile cost and unbeatable economics.

ATR 72-500 is unanimously recognized by Customers worldwide as the lowest seat mile cost in its category and low cost provider for regional airlines.

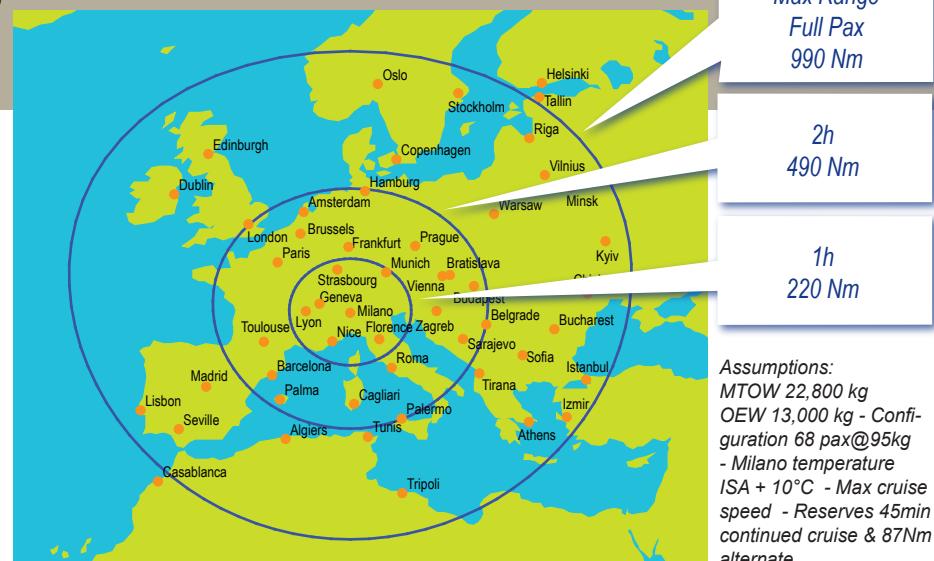
Major airlines directly or through regional affiliates fly profitably ATR 72-500 in every climates.



Operational Advantages to Regional Operators

Powered by PW127 engines, also used to power the ATR 42-500, the ATR 72-500 provides outstanding short field performance for an aircraft of this size, even on difficult hot and high airfields.

The operational weights respond to the new regulations increasing the standard passenger weight and provide the ATR 72-500 with a maximum range of 990 Nm or an out and return trip of 485 Nm (without refuelling), both being at full passenger payload.



Performance	Basic		Optional		
	ISA, SL, MTOW 3,000ft, ISA +10°C, TOW for 300Nm, 68 pax at 95 kg/209 lb	1,290 m 1,335 m	4,232 ft 4,380 ft	1,333 m 1,335 m	4,373 ft 4,380 ft
Landing Field Length (SL, MLW, FAR rules)	1,067 m	3,500 ft	1,067 m	3,500 ft	
Max Cruise Speed (95% MTOW, 16,000ft)	276 kt				

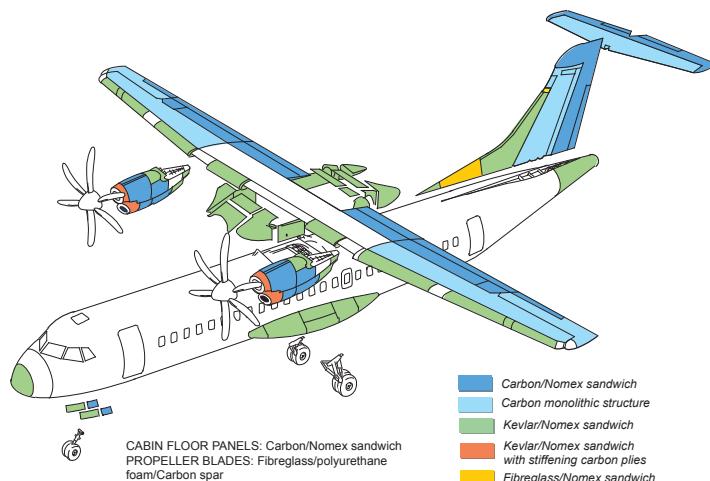
Structural Efficiency

The ATR 42 and ATR 72 secondary structures are extensively made of composite material, which are not subject to corrosion.

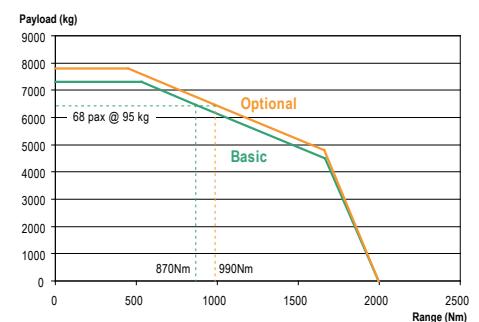
In addition, the ATR 72 innovates by the use of carbon fiber for its outer wings and a composite tail, thus reducing weight further.

The in-service advantages of composites are numerous:

- Immunity to corrosion and fatigue
 - Reduction of inspection
 - Payload gain and fuel savings.
- Not including the commercial furnishing weight, the corresponding result for the ATR 72 can be summarized as follows:
- Composite / total structure : 19%
 - Weight saving 400 kg, equivalent to 4 pax.



Range Capability



OEW 13,000 kg (28,660 lb) - High cruise speed
Reserves 45 min continued cruise & 87 Nm alternate

Block Fuel & Block Time

on typical sectors

200 Nm Sector	611 kg (1,347lb) 55.4 min
300 Nm Sector	854 kg (1,883lb) 78 min

The most efficient compromise between low fuel consumption and speed

Weights	Basic		Optional	
	kg	lb	kg	lb
MTOW	22,500	49,603	22,800	50,265
MLW	22,350	49,272	22,350	49,272
MZFW	20,300	44,753	20,800	45,855
OEW	13,000	28,660	13,000	28,660
Max. payload	7,300	16,093	7,800	17,196
Max. fuel load	5,000	11,023	5,000	11,023

The Low-Cost Reference for Regional Market



Direct Operating Costs

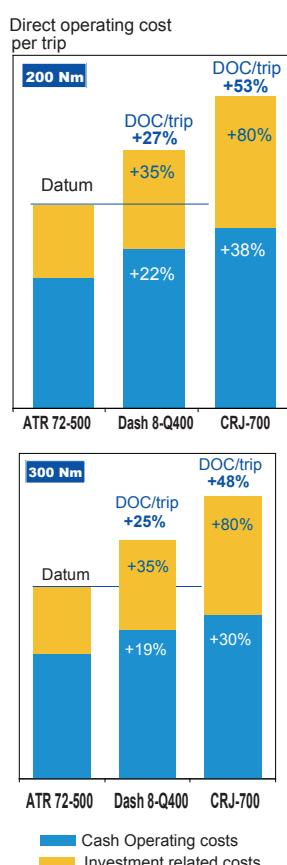
ATR 72-500 features exceptionally low operating costs when compared to similar sized turboprop and jet competitors on typical regional sectors.

Turboprops are unrivalled on short-haul sectors.

ATR 72-500 main advantages:

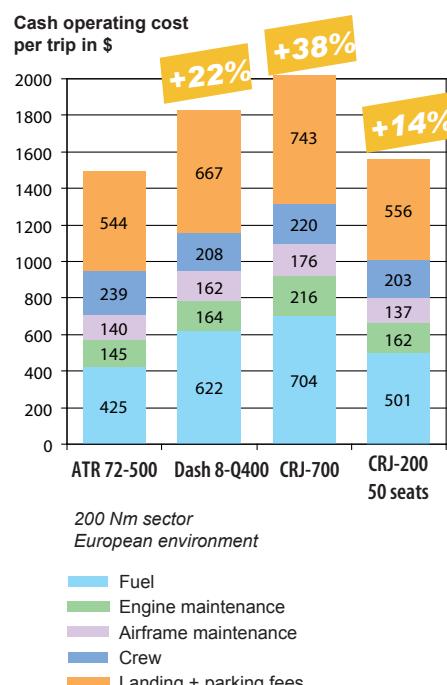
- Lower engine and airframe maintenance costs
- Less fuel costs
- Significantly lower airport charges
- Speed adapted to regional low-cost operation

ATR 72-500: the lowest seat-mile cost in its market segment



Cash Operating Costs

More than offset the speed effect even compared to 50-seater jet



The ATR 72-500, fully mature and technically proven aircraft, with demonstrated economics and widespread worldwide is an insurance of low risk choice and strong residual value.

Economic Assumptions

European Environment, Standard Economics

- **Stage length:** 200 and 300Nm
- **Fuel price:** 2.06\$/US gal
- **Aircraft prices:** As published by price catalog with 10% discount
- **Spares:** 10% aircraft price
- **Depreciation:** 12 years with 20% residual value
- **Financing:** 85% of investment over 10 years
- **Interest:** 5% per year
- **Insurance:** 1% of aircraft price/year
- **Block time & fuel:** Minimum time schedule (time allowance: 4 min taxi)
- **Annual utilisation:**
 - 200 Nm: 2200 flights
 - 300 Nm: 1800 flights
- **Crew :** Cockpit: statistical
- Cockpit Jet: statistical -
Cabin: 32\$ BH/FA
- **Maintenance**
 - **ATR family:** as estimated by ATR
 - **Competitors:** estimated by ATR, based on manufacturers data
- **Maintenance labour rate**
 - In house: 30\$/MH
 - Contracted: 63\$/MH
- **Landing charges:** statistical