


# Presents long range narrow body passenger Tu-204-300 aircraft



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The Tu-204-300 is a wide-body aircraft designed for carrying passengers and baggage over long-range domestic and international routes up to 8500 km. The Tu-204-300 provides the passengers with the up-to-date level of comfort meets the international ecological requirements and can operate in any region all over the world. Due to the aircraft systems high reliability and "on condition" maintenance, the aircraft operational cost was decreased.

Tu-204-300 is a modification of well-known Tu-204 aircraft design and features the increased take-off weight and flight range.

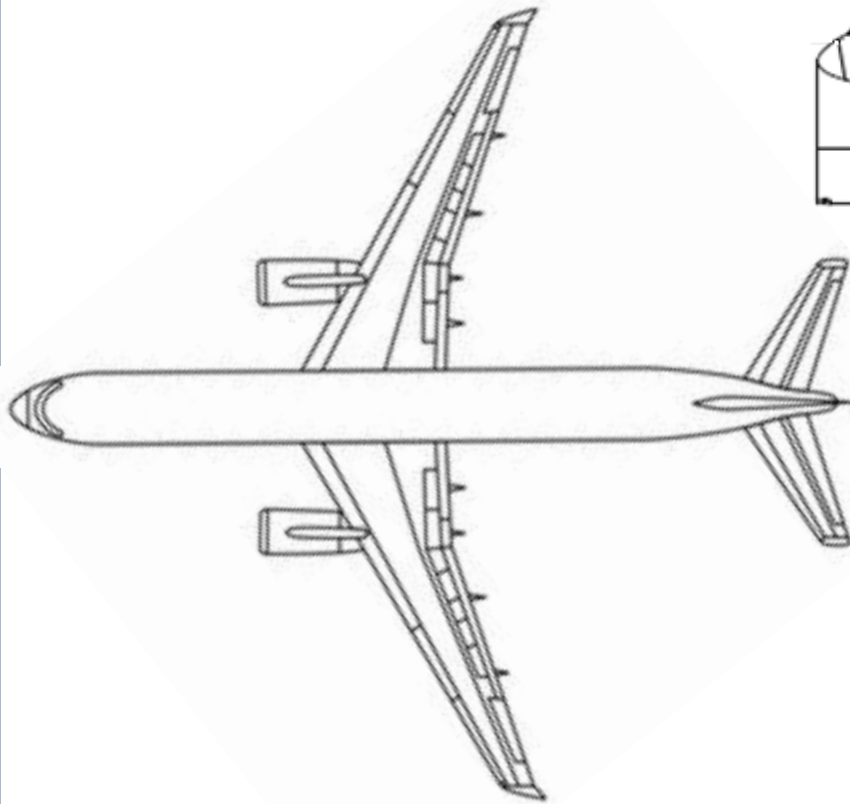
The aircraft is powered by two turbofan two-shaft PS-90A engines, produced by Perm Motors Plant (Perm, Russia) and equipped with Auxiliary Power Unit TA-12-60, manufactured by "Aerosila" (Moscow region, Russia).

The Tu-204-300 aircraft designed by TUPOLEV DESIGN BUREAU (Moscow, Russia) and manufactured by Ulyanovsk Aviation Industrial Complex "Aviastar" (Ulyanovsk, Russia).

Since the year 2005 Tu-204-300 aircraft is successfully operated by Russian and foreign air carriers "Vladivostok Avia" and Air Koryo.



## Tu-204-300 General view (Dimensions)



Length, m	40,138
Wing span, m	41,835
Fuselage diameter, m	3,8 x 4,1
Height, m	13,87
Wing area, m <sup>2</sup>	184,2



## Operating Weights & Fuel Capacity

Max taxi weight, t	107,8
Max takeoff weight, t	107,5
Max payload, t	18
Max landing weight, t	88
Max zero fuel weight, t	59
Max fuel, t	36

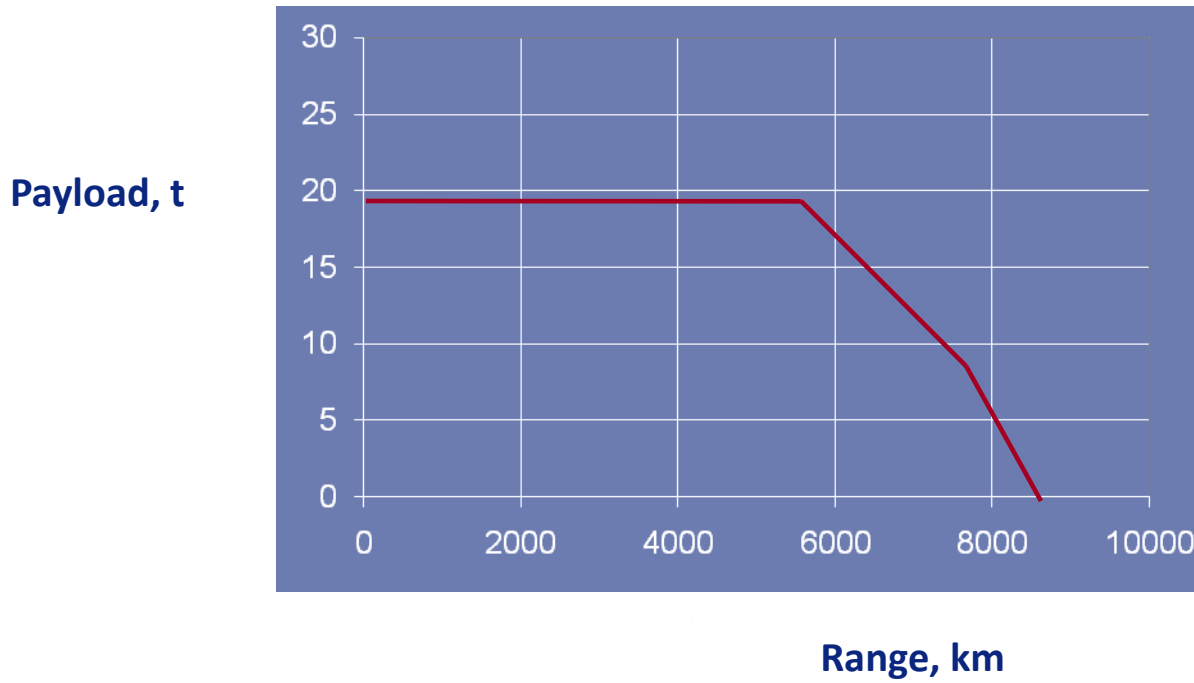
## Aircraft Performance Characteristics (ISA)

Cruising speed, km/h	830-850
Maximum flight altitude, km	12
Required runway length, m	2150
Range with maximum payload, km	5620
Range with maximum fuel, km	8200
Max airfield elevation (relative to sea level),m	-300...2000
Range of operational temperatures, °C	-45...+45
Crew	3

## Lifetime

Aircraft lifetime, flight hours	45 000
years	20
flights	25 000





## Engines

The aircraft is powered by two attached to underwing pylons PS-90A turbofan engines manufactured by Perm Motors Holding (Russia). The engines feature high bypass and compression ratio resulting in distinguished aircraft flight performance.



## Engine performance:

- takeoff thrust (ISA, H=0) – 16000 kg
- cruise thrust (ISA+10°C, H=11 000 m, M=0,8) – 3500 kg
- by-pass ratio at maximum continuous power – 4,4
- compression ratio at maximum continuous power –31,1
- fan diameter – 1,90 m
- engine length – 4,964 m
- engine weight – 2950 kg

## Auxiliary Power Unit (APU)

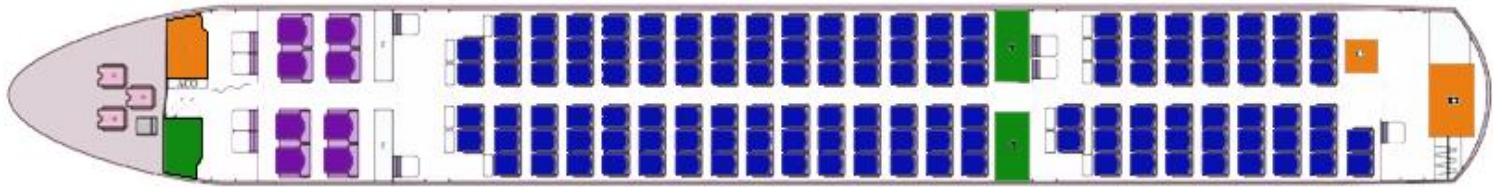
The aircraft is equipped with Auxiliary Power Unit TA-12-60, manufactured by "Aerosila" (Moscow region, Russia).



Tu-204-300 layouts, distinguished by utmost comfort and functionality, correspond to all safety requirements and meet any request of the Customer. Different layout variants can be designed according to customer request.

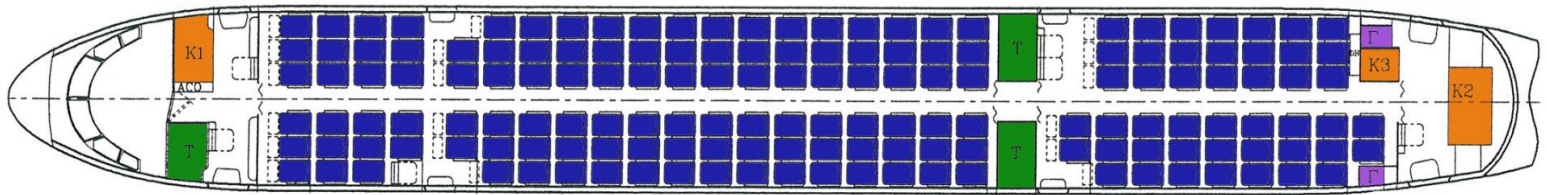
**High level of the comfort for the passengers is provided by**

- Improved seat ergonomics, high ceiling, wide center aisle and large baggage bins
- Multilevel cabin lightning system
- Low noise level in the passenger cabin
- Standard entertainment system provides all the passengers with video and audio programs, AIRSHOW flight map and main flight data.



Two-class layout for 142 seats

Business class - 8 seats with pitch 47 inches + economy class - 134 seats with pitch 32 inches

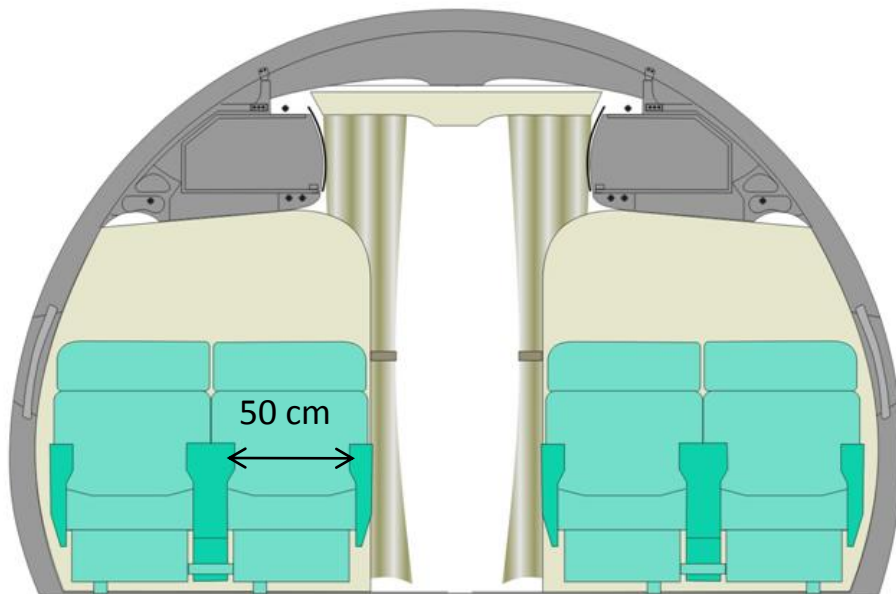


Single-class layout for 157 seats

Economy class - 157 seats with pitch 32 inches



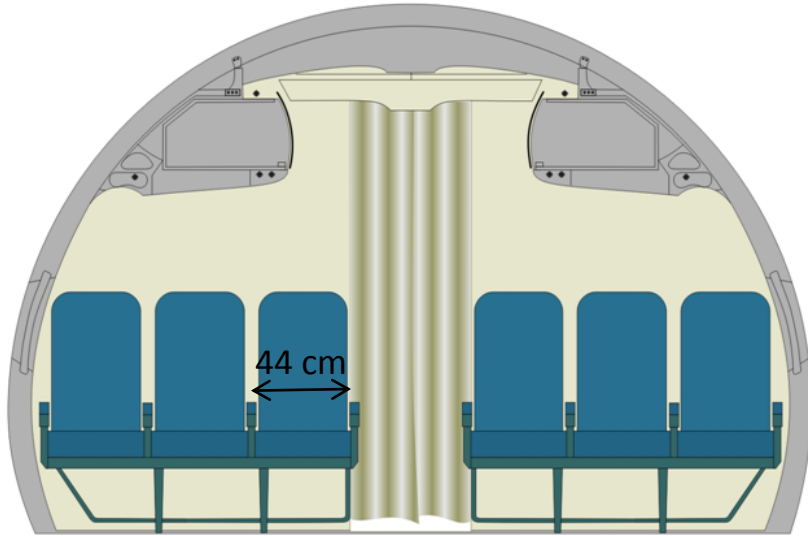
## Business class cabin dimensions



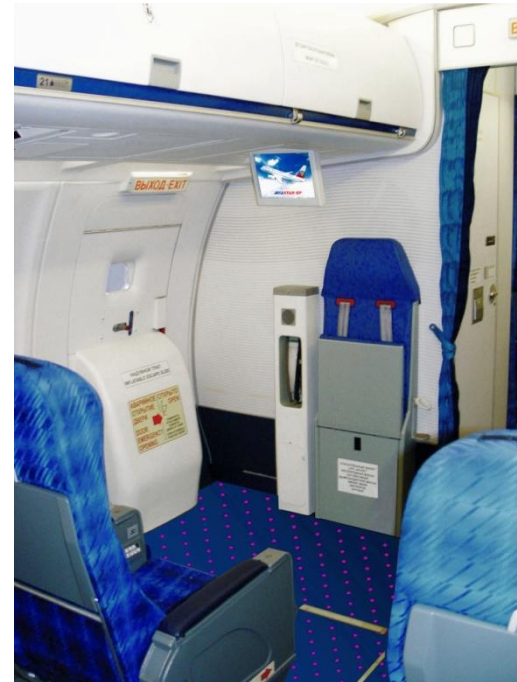
Pitch, mm	1200
Aisle height, mm	2155
Aisle width, mm	730
Baggage bin volume, m <sup>3</sup>	0,056



# Economy class cabin dimensions



Pitch, mm	810
Aisle height, mm	2155
Aisle width, mm	470
Baggage bin volume, m <sup>3</sup>	0,056





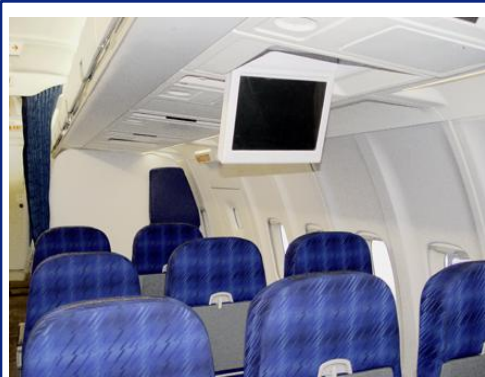
- Galleys have all necessary equipment including:
  - electric oven,
  - coffee machine,
  - boiler,
  - trolleys,
  - etc.

to provide passengers with hot meals several times



Airplane lavatories are equipped with self-contained fire extinguishing system and fire and smoke warning system. One lavatory has table for babies' hygiene.





### ■ Audio system in all the compartments provides:

- Ear- or speaker-phone replay (according to flight attendant choice) of not less than 40 voice messages in three languages, duration of each message is up to 5 minutes.
- Simultaneous transmission of up to 10 stereo programs
- Each program duration is up to 12 hours
- Channel choice from each passenger seat

### ■ Individual interactive video entertainment system for business class passengers provides:

- Video programs review on individual display (10 inch) mounted into seat armrest
- Flight mode and route map demonstration
- Audio programs playback from the server library
- Computer games

### ■ Upper information video system for economy class passengers provides:

- Video programs review on folding displays (12 inch) mounted into the ceiling
- Video films, clips and service programs demonstration from the server
- Flight mode and route map demonstration





## **Aircraft entertainment system capabilities could be extended by the following options:**

- Local area network access (order of goods and services, available on board);
- System adaptation for Internet access;
- Direct satellite TV broadcasting;
- In-flight cell phone communication;
- Possibility of using the server library (guides, time table, rules for filling in the forms, advertising, etc.)

**Control panel and entertainment system server are located in the flight attendants' cabin.**

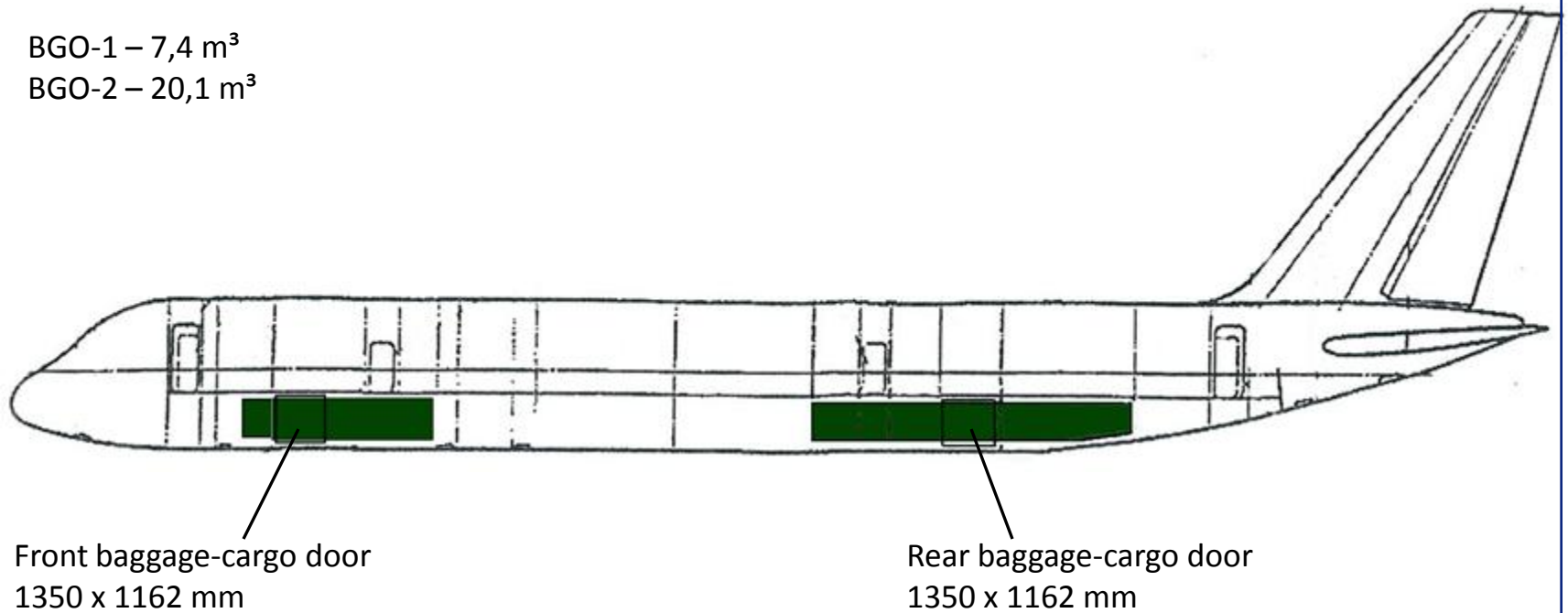
**According to ICAO requirements aircraft is equipped with passenger compartment surveillance system using 6-8 video cameras with the record time possibility up to 10 hours**



The aircraft has two baggage-cargo compartments BGO-1 and BGO-2 for the bulk cargo transportation.  
Baggage compartment dimensions:

BGO-1 – 7,4 m<sup>3</sup>

BGO-2 – 20,1 m<sup>3</sup>





The Tu-204-300 cockpit is designed in compliance with all modern ergonomics requirements.

The Tu-204-300 aircraft is piloted by 3 crew members and equipped with modern Russian-made avionics which includes six multifunctional color-LCD displays (EFIS), Flight Management System (FMS), Inertial Navigation System, Collision avoidance System (CAS) including mode “S” transponder, EGPWS system, VHF communications (compliant with ICAO requirements of item 4.7 Appendix 10), and equipment permitting flights in RVSM conditions. The avionics complex complies with modern requirements on international routes in Europe and North America (RNP-1, RNP-5, RNP-10, RNP-12.6, RNP-20) and allows to navigate and land under ICAO CAT II category , speed hold, automatic speaking (in English) on take-off speed and landing altitude.

The crew and passenger cabins correspond to aircraft requirements against the illegal intrusion (the Amendment 27 to a Part 1 of the Appendix 6 to ICAO). Crew cabin could be equipped with additional seat for supernumerary crew member. Both crew and passenger cabins also correspond to safety requirements (Chapter 11 of the Appendix 8 to ICAO).



- Automatic Flight Control System (AFCS) VSUP-85-3
- Autothrottle (ATS) VSUT-85-3
- Flight Management System VSS-95-1V
- EFIS SEI-85-2M
- Inertial Navigation System NSI-2000MT Honeywell HG2030AE21
- Air Data Computer SVS-96
- Critical Condition Warning System SPKR-85-2
- EGPWS «Honeywell»
- Radio Unit Control Panel KPRTS-95M-1
- Instrumental Landing System (ILS)
- Chronometer HAE-85M
- Radioaltimeter RV-85
- VHF Omnidirectional Radio (VOR)
- Distance Measuring Equipment (DME) DME/R-85
- Automatic Direction Finder (ADF) ARK-25
- Weather Radar RDR-4B by «Honeywell»
- Fault Detection Isolation System (FDIS) SSLO-95
- Radio Magnetic Indicator (RMI) KI-13BS-1



- Emergency Warning System SAS-8-4
- Multifunctional Flight Display (MFD) with MFD control panel KISS-1-9A
- Computer-Aided Wheel Control System - ASSHU-204M
- Cabin Pressure Control System (CPCS)
- Anti-icing System
- Fire Protection System
- Selective Calling System AVSA-E
- Airborne Internal Communication and Passenger Equipment (AICE-S)
- Internal Communication System (Intercom) AVSA-O
- HF Radio
- VHF Radio
- Passenger Entertainment System BRIS-P
- Hijack Alarm System (HAS) SSO-B
- Cockpit Voice Recorder (CVR) or ZBN-GA (Kursk)
- Voice Information Reporting System ALMAZ-UP





МЕЖГОСУДАРСТВЕННЫЙ АВИАЦИОННЫЙ КОМИТЕТ  
INTERSTATE AVIATION COMMITTEE

АВИАЦИОННЫЙ РЕГИСТР  
AVIATION REGISTER

**СЕРТИФИКАТ ТИПА**  
TYPE CERTIFICATE

№ CT238-Ty-204-300

ИЗДЕЛИЕ  
PRODUCT

Самолет Ту-204-300

НАСТОЯЩИЙ СЕРТИФИКАТ, ВЫДАННЫЙ  
THIS CERTIFICATE ISSUED TO

ОАО "Туполев"  
Москва, Россия

УДОСТОВЕРЯЕТ, ЧТО ТИПОВАЯ КОНСТРУКЦИЯ  
CERTIFIES THAT THE TYPE DESIGN OF THE

самолета Ту-204-300 соответствует требованиям Сертификационного базиса  
СБ Ту 204-300 от 13.05.2005г.

ОСНОВНЫЕ ЭКСПЛУАТАЦИОННЫЕ ОГРАНИЧЕНИЯ И ХАРАКТЕРИСТИКИ  
СОДЕРЖАТСЯ В КАРТЕ ДАННЫХ, КОТОРАЯ ЯВЛЯЕТСЯ НЕОТЪЕМЛЕМОЙ  
ЧАСТЬЮ НАСТОЯЩЕГО СЕРТИФИКАТА  
THE PRINCIPAL PERFORMANCE CHARACTERISTICS AND OPERATING LIMITATIONS ARE PRESENTED  
IN THE DATA SHEET FORMING AN INTEGRAL PART OF THIS CERTIFICATE

ПОДПИСЬ  
SIGNATURE

ДОЛЖНОСТЬ  
TITLE

Председатель  
Авиационного регистра МАК

Дата и место выдачи  
DATE AND PLACE OF ISSUANCE

14 мая 2005г.  
г. Москва



Tu-204-300 **aircraft** has Type Certificate № CT238-Ty-204-300 issued by Interstate Aviation Committee (MAK), which complies with Russian AP-25 Aviation Regulations harmonized with FAR-25 requirements and CS-25 EASA requirements.

PS-90A **engine** has Type Certificate № 16-D issued by Interstate Aviation Committee (MAK) and corresponds to AP-33 national aviation regulations.

**Noise requirements** – in compliance with requirements of Chapter 4 International Standard «Environmental protection», Annex 16 to the Chicago Convention on International Civil Aviation (volume I «Aircraft noise», issue 4).

**Emissions** – complies with requirements of Annex 16 to the Chicago Convention on International Civil Aviation (volume II «Aircraft Engine Emissions», issue 1981 with Amendments 1-4).

The aircraft is certified for world wide operations.



**Maintenance**

**Line maintenance**

**Form «A»:**  
Before every flight

**Form«B»:**  
Not less then every 120 flight  
hours after forms B, F1, F2

**Periodic maintenance \***

**Form (F1):**  
Every 600  $\pm$  60 flight hours

**Form (F2):**  
Every 3000  $\pm$  100  
flight hours

\* As an option periodicity of Form 1 fulfillment can be increased up to 900  $\pm$  60 flight hours and periodicity of Form 2 fulfillment - up to 3600  $\pm$  100 flight hours



The Tu-204-300 product support program is based on the IFC and AVIASTAR experience in the international and domestic product support of Tupolev family aircraft.

The following warranty is granted to the Customer:

- 24 month, 3000 flight hours or 1000 landings – whatever occurs first

The technical support of the airframe and engine is performed on power-by-hour basis at the customer base airport by IFC subsidiary company - “IFC TECHNIK” and engine manufacturer correspondingly and provides:

- Spare parts pool access
- Provision of maintenance checks
- Technical documentation support
- Engineering services
- AOG (aircraft on ground) management
- Spare parts provision and logistics
- Organizing of aircraft components repair and overhaul

