

### **Tupolev TU204-120,**

Thankyou for downloading the Tupolev TU204-120. The 204 is the Russian competitor to the Airbus A320 and Boeing 757. The 204-120 is equipped with the western Rolls Royce 535e4 engines, which are also an option for the 757-200. For repaint and copyright information, read chapter 3 and 4.

Enjoy the aircraft!

Robert Versluys

# Tupolev TU204



## 1. About the Tupolev TU204

### 1.1. History

The Tupolev 204 was developed as a replacement for the Tupolev 154. In the initial layout, presented in the early 80's the aircraft was to have three engines; it was then however reworked to a two engine aircraft. The first flight of the prototype took place at January 2, 1989. In August 1990 the first production model took to the sky. At the end of 2000 the Tupolev 214, with an increased MTOW and range went into production. Currently Tupolev is working on the TU-204-300, which has a shorter fuse and decreased capacity, but a much longer range.

### 1.2. Characteristics

Tupolev TU204-100/120	
<b>Pilots</b>	2
<b>Passengers</b>	212 seats single class at 82cm (32in) pitch 184 seats two class, 30 at 96cm (38in) and 154 at 81cm (32in).
<b>Empty weight:</b>	58300kg (128530lbs)
<b>Max takeoff:</b>	94600kg (22700lbs)
<b>Cruise speed:</b>	437 to 458kts (mach .75 to .78)
<b>Range:</b>	2356nm at MTOW
<b>Engine –100</b>	2x Aviadvigatel PS-90A @35580lb each
<b>Engine –120</b>	2x Rolls Royce RB211-535e4 @40200lb each
<b>Runway:</b>	2250m (4100ft)
<b>Length:</b>	46,1m (151ft 3in)
<b>Wing span:</b>	41.8m (137ft 2in)
<b>Wing surface:</b>	182,4m <sup>2</sup> (1963,4 sq ft)
<b>Height:</b>	13.9m (45ft 7in)
<b>Fuel Capacity:</b>	10661gall

### 1.3. Fuel and weight

#### ***Tupolev 204-100 and 204-120.***

The aircraft model is set up for a passenger load of 184 passengers at 200lbs each. Payload therefore is  $184 \cdot 200\text{lbs} = 36800\text{lbs}$ . With an empty weight of 128530lbs, the ZFW (Zero fuel weight) comes to  $128530\text{lbs} + 36800\text{lbs} = 165330\text{lbs}$ . Maximum fuel that should be loaded to not exceed the MTOW:  $22700 - 165330 = 61670\text{lbs}$ , this is about 9342gall.

#### ***Tupolev 214.***

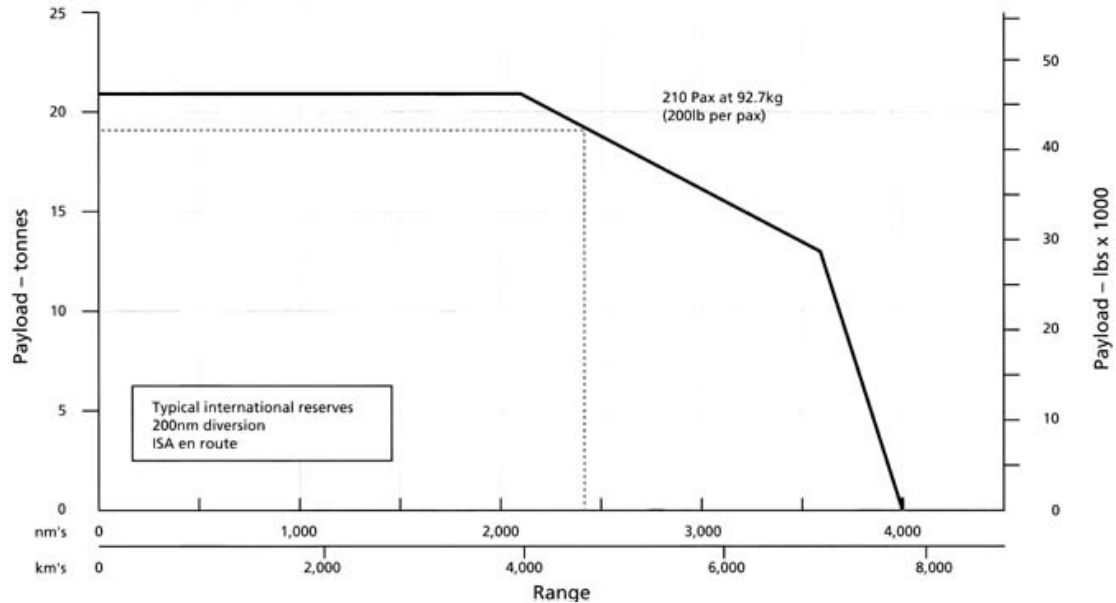
The Tupolev 214 has an increased MTOW of 244150lbs. With the same payload of 184 passengers this aircraft can load:  $244150 - 165330 = 78820\text{lbs}$ , this is about 11939gall, which means a full load of 10661 (max fuel capacity) can be taken.

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## 1.4. Range

Range chart TU204-120



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## 1.5. Comparison with competitors

The main competition for the TU204 comes from the Airbus A321 and the Boeing 757, below a comparison on a few main points of these aircraft.

	TU204-100	TU214	B757-200	A321-200
<b>Max Payload:</b>	46297 lbs	55557 lbs	72210 lbs	56571 lbs
<b>Range (Max Payload)</b>	2356 nm	2378 nm	3905 nm	2650 nm
<b>Fuel (max)</b>	10661 gall	10661 gall	11275 gall	7020 gall
<b>Passengers</b>	210 at 32in	210 at 32in	215 at 30in	220 at 28/29in
<b>Noise level</b>	Chapter III	Chapter III	Chapter III	Chapter III
<b>Price (new)</b>	US\$20 Million	US\$25 Million	US\$67 Million	US\$59 Million

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## 2. Installation

Copy the aircraft files to the FS2004\Aircraft directory. The plane should now show up under "Tupolev" in the fs2002 aircraft selection menu.

### *For online flying with Squawkbox (vatsim / ivao)*

To be able to select the Tupolev 204 in squawkbox, you will have to manually add it to the list, as it is not available in the current release. Open notepad and with notepad you open csl\_icao.csv, you can find this file in the main squawkbox folder, most likely in "c:\program files\squawkbox\". Now scroll all the way down and add these three lines to the bottom of the document:

```
Tupolev : Tupolev TU 204-100,T204,~B767,2.00,J,L,3500.00,2500.00,III,f  
Tupolev : Tupolev TU 204-120,T204,~B767,2.00,J,L,3500.00,2500.00,III,f  
Tupolev : Tupolev TU 214,T204,~B767,2.00,J,L,3500.00,2500.00,III,f
```

Save the document under the same name; you should now be able to select the TU204 with squawkbox, ~767 means other people on the network will see your plane as an 767, this is because an A321, TU204 or B757 is not available in the "common shape library".

### *Adding the Tupolev TU204 in ServInfo.*

Most people flying online will also use ServInfo, a program that gives a nice overview of what's happening online. However the TU204 is missing from this program as well. To add it open the file servinfo.dat with word, or another plain text editor. Scroll down in the file until you arrive at the header [Aircrafts]. Now below this, all the different aircraft types are named. To add the Tupolev 204 to this, simply add this line:

```
T204\Tupolev: TU204/214
```

With this edit, you should now be able to see the Tupolev 204 displayed correctly in ServInfo.

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## 3. Copyrights and Disclaimer

Do not use this package if you do not agree with the following:

- i. All files in this package are released as freeware; it is not allowed to make money with this package in any way (including; placing this package on a compilation CD, non-free website, etc).
- ii. Repainting of the model is allowed only when you include the original documentation and apply with all the other things mentioned here.
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- iv. At no time may this document be altered or separated from this package.
- v. It is not allowed to de-compile or otherwise convert the model file to an editable format.

## 4. Contact information

If you have any questions, comments, critics or want to repaint this model, you can contact me via email at [r.s.versluys@student.utwente.nl](mailto:r.s.versluys@student.utwente.nl) or via MSN on wbragto@hotmail.com. I hope you will enjoy flying this model!

## 5. Credits

### Credits

<b>Model:</b>	Robert Versluys
<b>Flight dynamics:</b>	Robert Versluys
<b>Textures:</b>	Robert Versluys