

中国民用航空总局
GENERAL ADMINISTRATION OF CIVIL AVIATION OF CHINA

I. 概述 / GENERAL

1. 原数据单编号 / **Data Sheet No:** No. CT 204-Be-103
版本和批准日期/ **Revision and Approve Data:** Revision 01 dated December 26, 2001
2. 飞机类型 / **Airworthiness Category:** 正常类/ Normal Airplanes
3. 机型/Airplane: Be-103
4. 审定当局 / **Certifying Authority:** Aviation Register Interstate Aviation Committee
5. 型号证持有人 / **Type Certificate Holder:** 别利耶夫飞机公司/ **Beriev Aircraft Company**
1, Aviatorov sq., Taganrog, 347923 - Russia

II. 认可审定基础/ Validation Basis

中国民用航空总局接受俄罗斯适航当局的合格审定基础作为认可审定基础: / CAAC accepts the Certification Basis of IAC AR as the Validation Basis:

- 俄罗斯航空条例 AP23 部及其 1-4 号修正案和环境保护要求 AP36 部/ Airworthiness Regulations for Light Civil Aircraft (A II-23) with Amendments 1 to 4, and Environmental Protection Requirements (A II-36).

III. 技术特性和运行限制/Technical Characteristics and Operational Limitations

有效感觉噪声级/Perceivable Noise

Aircraft parameters with regard to perceivable noise comply with requirements specified in A II-36 Aviation Regulations. Perceivable noise certificate No. C III 126-BE 103 dated December 21, 2001.

发动机/Engines:

型号/Type:

TCM IO-360 ES4

安装数量/Number of engines on aircraft:

2台/Two

技术数据/Technical data:

轴马力 Shaft horsepower / 时间限制
limitation of time (minutes) for
operation at power/ 推力设置 thrust
settings specified below:

- 起飞 take-off power/thrust

210 hp / no limitation

- 最大连续功率 maximum continuous
power/thrust

210 hp / no limitation

其它发动机限制见相应的发动机型号合格证数据单。

Other limitations and technical data are specified in Data Sheet for Engine Type

Certificate No. 84-Ⅱ dated November 28, 1995.

燃油/Fuel

Gasoline octane grade 100/100LL, or Russian aviation grade fuel Б95/130 GOST 1012-72 of year 1992及CAAC认可的飞行手册规定的中国航空汽油 15W-50, 20W-50, SAE-30, or 10W-30

滑油/Oil

螺旋桨/Propeller

技术数据和限制见相应的发动机型号合格证数据单。
允许反桨

MTV-12-D-C-F-R(M)/CFR183-17
Technical data and limitations are specified in Data Sheet for Type Certificate No. CT173-BB.
Propeller reverse thrust is enabled.

运行限制/Operational Limitations

最大起飞重量/Maximum take-off weight (for land and water operations)	2270 kg
飞行高度/Flight altitude	3000 m
机动载荷系数/Maneuvering load factor ($n_{y, \max}^{\text{lim}}$)	3.7
最大巡航速度/Maximum operating limit cruising speed (V_{MO})	240 km/h
最大允许机动速度/Maximum speed for maneuvering with $n_{y, \max}^{\text{lim}}$ load factor (V_A)	193 km/h
最大收放起落架速度/Maximum landing gear operating speed (V_{LO})	183 km/h
最大水面环绕运动速度/Maximum allowable speed for circling motion on water:	
- 起落架放下/with landing gear extended	8 km/h
- 起落架收起/with landing gear retracted	20 km/h
陆地起飞着陆最大风速/Maximum wind components in conditions of take-off from paved runway / landing on paved runway:	
- 逆风/headwind component	10 m/s
- 顺风/tailwind component	2 m/s
- 侧风起飞/crosswind component (for take-off)	6 m/s

- 侧风着陆/crosswind component (for landing)	3 m/s
水面起飞着陆最大风速 Maximum wind components in conditions of take-off from water / landing on water	
-逆风/headwind component	6 m/s
- 顺风/tailwind component	0 m/s
- 侧风/crosswind component	3 m/s
重心范围/C.G. Range	- 前重心限制/extreme forward C.G. limit: 17% MAC
	- 后重心限制 (起落架收上) /extreme aft C.G. limit: 21% MAC
最大允许有风浪高/Maximum allowable wind-induced wave height	0.4 m
最大允许无风浪高/Maximum allowable ripple height	0.2 m
机组/Crew	1 pilot
乘员/No. of people on board	6 (including the crew)
机场跑道类型/Aerodrome code letter and category	The aircraft can be operated from aerodromes with paved runways, code letter A, B, C, D, E; with the paved runway being dry and wet, $\mu \geq 0.3$ The aircraft can be operated from water aerodromes with the following parameters: - length: 1100 m - width: 100 m - depth: 1.5 m (at waves of 0.4 m) - length of underwater segment of seaplane ramp: 13 m
跑道地基强度 /Sub-soil strength ($\sigma_{average}$)	7 kgf/cm ² 铺筑及非铺筑道面 (此数据按补充型号合格证 C T 204-Be-103/ D5 已作更改 /The data changed as Supplement No.5)
机场高度/Aerodrome elevation	500 m

外界气温/Outside air temperature:

- 陆上运行/for land operations
- 水上运行/for water operations

minus 30° C to +35° C
+5° C to +35° C

结冰飞行/Flights in icing conditions

禁止/Prohibited

运行类型/Flight conditions and routes

白天、夜间目视飞行/The aircraft can be used for day and night flights under VFR conditions in compliance with the aircraft Flight Manual.

制造厂商/Manufacturing Company

阿穆尔共青城加加林航空生产联合有限公司 /Komsomolsk-on-Amur Aircraft Production Association (JSC) named after Y. A. Gagarin

补充型号合格证No.1/Supplement No.1
dated December 26, 2002

C T 204-Be-103/Д1

Extension of operating conditions for operation from unpaved airfields

补充型号合格证No.2/Supplement No.2
dated December 24, 2003

C T 204-Be-103/Д2

Extension of expected operating conditions: extension of the range of outside air temperature on ground up to +35° C.

补充型号合格证No.3 /Supplement No.3
dated April 19, 2004

C T 204-Be-103/Д3

Extension of expected operating conditions: extension of the range of outside air temperature on ground down to minus 30° C.

补充型号合格证No.4/Supplement No.4
dated November 17, 2002

C T 204-Be-103/Д4

Operation of aircraft with propeller reverse thrust enabled.

Operation of aircraft: day and night flights in VFR conditions.

补充型号合格证No.5/Supplement No.5
dated December 21, 2005

C T 204-Be-103/Д5

The change on the NLG wheel and tire.
the NLG wheel and tire:

wheel 115-30Laufgrad

tire 380x150-5/6PR/120mph

*备注/Note

Type Design for:

Defined by engineering documentation package

- 美国FAA型号合格证/Type Certificate
No. A55CE (USA)

No. A103.1.0000.000 Д49 (reference copy),
series 33

- 巴西CTA型号合格证/Type Certificate No.A103.2.0000.000Д49 (reference
No.EA-2005T15 (Brazil) copy),
series 37