

CIVIL AVIATION AUTHORITY OF THE CZECH REPUBLIC

62 001 - L 200 D
Revision 3
Aircraft Industries, a.s.
L 200 D
05.09.2005

TYPE CERTIFICATE DATA SHEET No. 62 001 - L 200 D

This data sheet which is a part of Type Certificate No. 62 001 - L 200 D prescribes conditions and limitations under which the product for which the type certificate was issued meets the airworthiness requirements of the Czech Republic.

Model	Application Date	Certification Date
L 200 D	-	12.10.1961

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Model L 200 D

I. General

1. Data Sheet No.: 62 001 - L 200 D
2. Model: L 200 D
3. Airworthiness category: Normal
4. Type Certificate Holder: Aircraft Industries, a.s.
Kunovice 1177
686 04 Kunovice
Czech Republic
5. Manufacturer: Strojírny první pětiletky, n.p.
Kunovice
6. Application Date: -
7. Certificate Date: 12.10.1962

II. Certification Basis

1. Certification Basis:
 - British Civil Airworthiness Requirements (BCAR), normal category, Section D,
 - Civil Air Regulations (CAR) Part 3, normal category,
 - Bauvorschriften für Flugzeuge (BVF), usage group P – transport, loading class 3 normal
2. Special Conditions: None
3. Exemptions: None
4. Equivalent Safety Findings: None
5. Environmental Standards: None

III. Technical Characteristics and Operational Limitations

1. Type Design Definition: Specification Sheet “ L 200 D Aircraft No. L200.0000“
2. Description: Two-engines, five-seater, self-supporting, low-wing aircraft of all-metal design.
3. Equipment:

Flight and navigation instruments:	
Airspeed indicator up to 400 km/hr	LUN 1101
Altimeter up to 10 km	LUN 1121
Variometer	LUN 1145
Turn and bank indicator	LUN 1213
Combined artificial horizon	LUN 1202
Combined horizon	AKG-47B
Course gyro	LUN 1272
Compass	LUN 1222
Radio station	LUN 3521
Radio-compass	RKL-301
Engine instruments:	
Dual RPM indicator	LUN 1315
Dual indicator of filling pressure	2 MV 18M
Quadruplicate indicator of engine parameters	LUN 1523
Dual indicator of cylinder heads temperature	2 TCT 47
Other instruments:	
Landing gear position indicator	LUN 1694
Flaps position indicator	LUN 1685
Dual fuel quantity indicator	LUN 1631
Triplicate heating temperature indicator	LUN 1355
Radio-compass indicator	LUN 3615.07
Volt-ammeter	LUN 2741
Clock	AVRM
4. Dimensions:

Span:	12,325 m
Length:	8,665 m
Height:	2,215 m
Wing Area:	17,28 m ²
5. Engine:
 - 5.1.1. Model: M 337
 - 5.1.2. Type Certificate: 94-06, CAA CZ issued
 - 5.1.3. Limitations:

Maximum take-off power performance	210 HP
rounds	2750 RPM
Maximum continuous (nominal) power performance	165 HP
rounds	2600 RPM

	Maximum cruising power performance rounds	132,5 HP 2400 RPM
6. Propeller:		
6.1.1. Model:	VJ 6.506	
6.1.2. Type Certificate:	6661/61, CAA CZ issued	
6.1.3. Number of blades:	3	
6.1.4. Diameter:	1750 - 1900 mm	
6.1.5. Sense of Rotation:	Rotating anti-clock-wise in the view of the flight direction	
7. Fuel:	ESSO ICP 80 SHELL Avgas 80 SHELL Avgas 100 LL BP 100 L BL 78 according to ČSN 65 6510	
8. Oil:	AEROSHELL Oil W 100 AEROSHELL Oil W 120 ELF Aviation AD 100 MOBIL Aero D 100 BP Aero Oil 100 CASTROL Aero AD 100 TOTAL Aero D 100	
9. Air Speeds:	Never exceeding speed v_{NE} Maximum normal maneuvering speed v_{NO} Design maneuvering speed v_A Maximum flaps extended speed v_F	360 km/hr IAS 280 km/hr IAS 225 km/hr IAS 175 km/hr IAS
10. Load factors:	Maximum positive operation load factor Maximum negative operation load factor	3,5 1,0
11. Maximum Operating Altitude:	5700 m	
12. Weights:	Empty weight Maximum take-off weight	1330 kg 1950 kg
13. Center of Gravity Range:	14.5 – 30.0 % MAC	

14. Datum: Passes by the fuselage forward leveling items perpendicularly to the aircraft longitudinal axes.
15. Mean Aerodynamic Cord (MAC): 1497 mm
16. Leveling Means: Leveling level is identical with the datum - see leveling diagram shown in the L 200 D Aircraft Maintenance Manual.
17. Minimum Flight Crew: 1
18. Number of seats: 5 including the pilot seat
19. Baggage/Cargo Compartments: maximum 50 kg
20. Control surface deflections:
- | | | |
|----------|--------------------|------------------------------|
| Ailerons | up | $26^{\circ} \pm 1,5^{\circ}$ |
| | down | $16^{\circ} \pm 1,5^{\circ}$ |
| Elevator | up | $30^{\circ} \pm 2^{\circ}$ |
| | down | $16^{\circ} \pm 2^{\circ}$ |
| Rudder | | $24^{\circ} \pm 2^{\circ}$ |
| Flaps | retracted position | 0° |
| | take-off position | 20° |
| | landing position | $30^{\circ} \pm 2^{\circ}$ |
21. Wheels and Tyres: Main landing gear wheel K 525.1 with tyre BARUM 500 x 180 mm
Nose landing gear wheel HP 4808 with tyre BARUM 420 x 150 mm
22. Other Limitations: The aircraft is approved for Day and Night VFR and IFR flights.

IV. Operating and Service Instructions

1. Flight manual

- In Czech language:
Směrnice pro pilota a mechanika letounu L 200D, Do-L200D-1011.0
- In English language:
Approved Flight Manual for the MORAVA L 200 D Aeroplane, Do-L200D-1011.2

2. Maintenance manual

- In Czech language:
Technická příručka letounů L 200 A, L-200-D Do-L200AD-1021.0
- In English language:
Technical Description L 200 D, Do-L200D-1021.2

3. Technický popis letounu L 200 D, Do-L200D-1022.0

4. Popis, obsluha a udržování letadlového motoru M 337

5. Technický popis a provozní instrukce vrtulové jednotky VJ 6.506

6. Technický popis a instrukce pro provoz radiostanice LUN 3521

7. Technický popis a instrukce pro obsluhu radiokompasu RKL 301

V. Notes

1. EASA TC No. EASA.A.043 has been issued for model L 200 D aircraft on August 12, 2005.