



TYPE-CERTIFICATE DATA SHEET

NO. EASA.IM.A.638

for
CC19 series

Type Certificate Holder
Cub Crafters Inc.

1918 South 16th Ave.
Yakima, WA 98903
United States of America

For models: CC19-180
 CC19-215



Intentionally left blank



SECTION A: CC19-180	4
A.I. General	4
A.II. EASA Certification Basis	4
A.III. Technical Characteristics and Operational Limitations	5
A.IV. Operating and Service Instructions	9
A.V. Notes	10
SECTION B: CC19-215	11
B.I. General	11
B.II. EASA Certification Basis	11
B.III. Technical Characteristics and Operational Limitations	12
B.IV. Operating and Service Instructions	16
B.V. Notes	16
SECTION ADMINISTRATIVE	17
I. Acronyms & Abbreviations	17
II. Type Certificate Holder Record	17
III. Change Record	17



SECTION A: CC19-180

A.I. General

1. Type/ Model/ Variant	
1.1 Type:	CC19 series
1.2 Model:	CC19-180 (sales designation: XCub)
1.3 Variant:	N/A
2. Airworthiness Category	Normal, Utility
3. Manufacturer	Cub Crafters Inc. 1918 South 16th Ave. Yakima, WA 98903 USA
4. EASA Type Certification Application Date	27 June 2016
5. State of Design Authority	Federal Aviation Authority (FAA) USA Seattle Aircraft Certification Office 200 South 216th Street Des Moines, WA 98198 USA
5.1 State of Design Certification Basis:	see FAA TCDS no. A00053SE
6. State of Design Authority Type Certificate Date	02 June 2016
7. EASA Type Certification Date	18 December 2017

A.II. EASA Certification Basis

1. Reference Date for determining the applicable requirements	02 June 2016 (FAA Application Date)
Type Certificate Date	
2. Airworthiness Requirements	CS-23 Amendment 4
3. Special Conditions	None
4. Exemptions	
Not available under EASA regulation.	
5. Deviations	None
6. Equivalent Safety Findings	
CRI D-101 - CS 23.807 Emergency Exit.	
7. Environmental Protection	
See TCDSN EASA.IM.A.638	



A.III. Technical Characteristics and Operational Limitations

1. Type Design Definition

The Cub Crafters CC19-180 is defined by Cub Crafters Document Master Document List XC10000MDL Rev. C or later approved revision.

2. Description

The Cub Crafters CC19-180 is a two seat, tail-wheel aircraft using tube-and-fabric construction with a gross weight of 1043 kg (2,300 lbs).

3. Equipment

The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification Basis) must be installed in the aircraft for airworthiness certification.

Additional Equipment Necessary for Type Certification: Reference the latest Approved Revision of "CC19-180 Pilots Operating Handbook and FAA Approved Flight Manual."

4. Dimensions

Span 10.5m (34.3 ft)

Length 7.3m (23.8 ft)

Height 2.6m (8.4 ft) Maximum Height (level attitude)

Wing Area 16.2 m² (174.8 ft²)

5. Engine

5.1 Manufacturer Lycoming Engines

5.1. Model O-360-C1G

5.2 Type Certificate US E-286

5.3 Limitations

Maximum takeoff power: 180 horsepower at 2700 RPM

Maximum continuous power: 180 horsepower at 2700 RPM

See Engine Type Certificate Data Sheet E-286 for additional limitations.

6. Load factors

Normal Category

Maximum positive load factor 3.8G

Maximum negative load factor -1.52G

Utility Category

Maximum positive load factor 4.4G

Maximum negative load factor -1.76G

Flaps down:

Normal and Utility Category

Maximum positive load factor 2.0G

Maximum negative load factor No inverted manoeuvres approved



7. Propeller

7.1 Model	Hartzell Propeller, Inc. HC-C2YR-1N/NG8301-5
7.2 Type Certificate	IM.P.130
7.3 Number of blades	Two (2)
7.4 Diameter	198 cm (78in). No diameter reduction allowed High Pitch angle: 29.0°-30.0° Low Pitch Angle: 9.7°-10.0°
7.5 Sense of Rotation	Clockwise (Pilot Perspective)

8. Fluids

8.1 Fuel	100 (green) or 100LL (blue) grade aviation fuel.
8.2 Oil	Lycoming Service Instruction 1014
8.3 Coolant	N/A

9. Fluid capacities

9.1 Fuel

One 92.7 liters (24.5 gallon U.S) tank in each wing at 2.1m (84.5 inches) aft of datum; 87 liters (23 gallons U.S) usable in each wing, 5.7 liters (1.5 gallons U.S) unusable in each wing; 185.5 liters (49 gallons U.S.) total; 174.1 liters (46 gallons U.S.) usable; 11.4 liters (3 gallons U.S.) unusable.

Note: add weight of unusable fuel to the certificated weight.

9.2 Oil

7.6 liters (8 quarts) total at 47cm (18.4 inches) aft of datum.

See Lycoming Service Instruction 1014 for approved oil.

9.3 Coolant system capacity	N/A
-----------------------------	-----

10. Air Speeds

V _O at 1043 kg (2300 lbs)	86 KCAS
V _O at 898 kg (1980 lbs)	79 KCAS
V _{FE} (46° Flaps)	73 KCAS
V _{NO}	117 KCAS
V _{NE}	142 KCAS

11. Flight Envelope

The flight envelope is defined in the applicable approved Aircraft Flight Manual (XC10000AFM); the flight envelope is listed in section 6.

Maximum Operating Altitude	4267 m (14,000 ft)
----------------------------	--------------------

12. Approved Operations Capability

Operational Limitations: Day-Night, Visual Flight Rules (VFR)

Airframe Life Limits: See the latest approved revision of the CC19-180 "Airplane Maintenance Manual." XC10000AMM

13. Maximum Masses

Normal Category

Maximum Ramp:	1043 kg (2,300 lbs).
Maximum Takeoff:	1043 kg (2,300 lbs).



Maximum Landing: 1043 kg (2,300 lbs).

Utility Category

Maximum Ramp: 898 kg (1,980 lbs).

Maximum Takeoff: 898 kg (1,980 lbs).

Maximum Landing: 898 kg (1,980 lbs).

14. Centre of Gravity Range - *Straight line variation between points.*

Normal Category

Aft Limits: 202 cm (79.5in) aft of datum:
726 kg (1,600 lbs) to 1043 kg (2,300 lbs.)
199 cm (78.5in) aft of datum:
570 kg (1,300 lbs.)

Forward Limits: 183 cm (72.0in) aft of datum:
590 kg (1,300 lbs) to 762 kg (1,680 lbs.)
201 cm (79.1in) aft of datum:
1043 kg (2,300 lbs.)

Utility Category

Aft Limits: 198 cm (78.0in) aft of datum:
590 kg (1,300 lbs) to 898 kg (1,980 lbs.)

Forward Limits: 183 cm (72.0in) aft of datum:
590 kg (1,300 lbs) to 762 kg (1,680 lbs.)
192 cm (75.4in) aft of datum:
898 kg (1,980 lbs.)

15. Datum

152.4cm (60 inches) forward of the wing leading edge.

16. Control surface deflections

Wing flaps: 0°, 16°, 33°, 46° ± 1.0°
Ailerons: Up: 20° ± 1.5° Down 14° ± 1.5°
Elevator: Up 25° ± 1.5° Down 15° ± 1.5°
Stabilizer: Up 4.9° +0.1°/-0.0° Down 2.5° +0.0°/-0.1°
Rudder: Left 22.5° +0/-0.75° Right 25° +0/-0.75°

See the latest approved revision of the CC19-180 "Airplane Maintenance Manual", or other approved data, for control system rigging instructions and setting flaps up (0°) configuration.

17. Levelling Means

See latest approved revision of the CC19-180 "Pilot's Operating Handbook and FAA Approved Flight Manual."

18. Minimum Flight Crew

One (1) Pilot

19. Maximum Passenger Seating Capacity

Two (2) seats total Pilot located at 184 cm (72.2 in) aft of datum



Passenger located at 248 cm (97.5in) aft of datum

20. Baggage/ Cargo Compartments

The baggage area is divided into two areas. The forward cargo area has a capacity of 82 kg (180 lbs) and the aft area has a capacity of 23 kg (50 lbs). As defined in the latest approved revision of the CC19-180 "Pilot's Operating Handbook and FAA Approved Flight Manual".

21. Wheels and Tyres

The main wheels carry 6:00 x 6 tires as standard equipment. 8:50 x 6 tires and 26 x 10.5-6 tires are offered as optional equipment.

22. (Reserved)



A.IV. Operating and Service Instructions

- | | |
|--------------------------------|--|
| 1. Flight Manual (AFM) | Aircraft Flight Manual XC10000AFM initial release dated 2 nd June 2016 or later approved revision |
| 2. Maintenance Manual (AMM) | Aircraft Maintenance Manual XC10000AMM initial release dated 18 th July 2016 or later approved revision |
| 3. Structural Repair Manual | N/A |
| 4. Weight and Balance Manual | Aircraft Flight Manual XC10000AFM initial release dated 2 nd June 2016 or later approved revision |
| 5. Illustrated Parts Catalogue | N/A |



A.V. Notes

NOTE 1: Installation of Wipaire 2100A amphibious or 2100S seaplane floats series floats in accordance with Cub Crafters drawings: XC44001 XC44100, XC44500, XC44700 are not validated by EASA.



SECTION B: CC19-215

B.I. General

1. Type/ Model/ Variant	
1.1 Type:	CC19 series
1.2 Model:	CC19-215 (sales designation: NXCub)
1.3 Variant:	N/A
2. Airworthiness Category	Normal
3. Manufacturer	Cub Crafters Inc. 1918 South 16th Ave. Yakima, WA 98903 USA
4. EASA Type Certification Application Date	31 December 2025
5. State of Design Authority	Federal Aviation Authority (FAA) USA Seattle Aircraft Certification Office 200 South 216th Street Des Moines, WA 98198 USA
5.1 State of Design Certification Basis:	see FAA TCDS no. A00053SE
6. State of Design Authority Type Certificate Date	10 November 2020
7. EASA Type Certification Date	27 February 2026

B.II. EASA Certification Basis

1. Reference Date for determining the applicable requirements	02 June 2016 (FAA Application Date)
Type Certificate Date	
2. Airworthiness Requirements	CS-23 Amendment 4
3. Special Conditions	None
4. Exemptions	
Not available under EASA regulation.	
5. Deviations	None
6. Equivalent Safety Findings	
CRI D-101 - CS 23.807 Emergency Exit.	
7. Environmental Protection	
See TCDSN EASA.IM.A.638	



B.III. Technical Characteristics and Operational Limitations

1. Type Design Definition

The Cub Crafters CC19-215 is defined by Cub Crafters Document Master Document List XC10000MDL Rev. L or later approved revision.

2. Description

The Cub Crafters CC19-215 is a two seat, tailwheel and tricycle aircraft using tube-and-fabric construction with a gross weight of 1043 kg (2,300 lbs).

3. Equipment

The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification Basis) must be installed in the aircraft for airworthiness certification.

Additional Equipment Necessary for Type Certification: Reference the latest Approved Revision of the CC19-215 tailwheel version document number XC11000AFM "Pilot's Operating Handbook and FAA Approved Airplane Flight Manual" or CC19-215 tricycle version document number XC11020AFM "Pilot's Operating Handbook and FAA Approved Airplane Flight Manual."

4. Dimensions

Span 10.5m (34.3 ft)

Length 7.3m (23.8 ft)

Height 2.6m (8.4 ft) Maximum Height (level attitude) Tailwheel Configuration

Height 2.8m (9.2 ft) Maximum Height (level attitude) Tricycle Configuration

Wing Area 16.2 m² (174.8 ft²)

5. Engine

5.1. Manufacturer Lycoming Engines, An Operating Division of AVCO Corporation

5.2. Model IO-390-D3B6

5.3 Type Certificate IM.E.097

5.4 Limitations

Maximum takeoff power: 215 horsepower at 2700 RPM (3 minute)

Maximum continuous power: 180 horsepower at 25.5 inches mercury manifold pressure

See Engine Type Certificate Data Sheet E00006NY for additional limitations.

6. Load factors

Normal Category

Maximum positive load factor 3.8G

Maximum negative load factor -1.52G

Flaps down:

Normal Category

Maximum positive load factor 2.0G

Maximum negative load factor No inverted manoeuvres approved



7. Propeller

7.1 Model	Hartzell Propeller, Inc. HC-C2YR-1N/NG8301-7
7.2 Type Certificate	IM.P.130
7.3 Number of blades	Two (2)
7.4 Diameter	193 cm (76in). No diameter reduction allowed High Pitch angle: 29.0°-30.0° Low Pitch Angle: 12.3°-13.3°
7.5 Sense of Rotation	Clockwise (Pilot Perspective)

8. Fluids

8.1 Fuel	100LL (blue) grade aviation fuel.
8.2 Oil	Lycoming Service Instruction 1014
8.3 Coolant	N/A

9. Fluid capacities

9.1 Fuel

One 92.7 liters (24.5 gallon U.S) tank in each wing at 2.1m (84.5 inches) aft of datum; 84.4 liters (22.3 gallons U.S) usable in each wing, 8.3 liters (2.2 gallons U.S) unusable in each wing; 185.5 liters (49 gallons U.S.) total; 168.8 liters (44.6 gallons U.S.) usable; 16.6 liters (4.4 gallons U.S.) unusable.

Note: add weight of unusable fuel to the certificated weight.

9.2 Oil

6.6 liters (7 quarts) total at 46.7cm (18.4 inches) aft of datum.

See Lycoming Service Instruction 1014 for approved oil.

9.3 Coolant system capacity	N/A
-----------------------------	-----

10. Air Speeds

V _O at 1043 kg (2300 lbs)	86 KCAS
V _O at 898 kg (1980 lbs)	79 KCAS
V _{FE} (46° Flaps)	73 KCAS
V _{NO}	117 KCAS
V _{NE}	142 KCAS

11. Flight Envelope

The flight envelope is defined in the applicable approved Aircraft Flight Manual (XC11000AFM or XC11020AFM); the flight envelope is listed in section 6.

Maximum Operating Altitude	4267 m (14,000 ft)
----------------------------	--------------------

12. Approved Operations Capability

Operational Limitations: Day-Night, Visual Flight Rules (VFR)

Airframe Life Limits: See the latest approved revision of the CC19 Series "Aircraft Maintenance Manual." XC10000AMM

13. Maximum Masses

Normal Category

Maximum Ramp:	1043 kg (2,300 lbs).
---------------	----------------------



Maximum Takeoff: 1043 kg (2,300 lbs).
Maximum Landing: 1043 kg (2,300 lbs).

14. Centre of Gravity Range - *Straight line variation between points.*

Normal Category (Tailwheel Configuration)

Aft Limits: 201.9 cm (79.5in) aft of datum:
726 kg (1,600 lbs) to 1043 kg (2,300 lbs.)
199.4 cm (78.5in) aft of datum:
590 kg (1,300 lbs.)
Forward Limits: 182.8 cm (72.0in) aft of datum:
590 kg (1,300 lbs) to 762 kg (1,680 lbs.)
200.9 cm (79.1in) aft of datum:
1043 kg (2,300 lbs.)

Normal Category (Tricycle Configuration)

Aft Limits: 201.9 cm (79.5in) aft of datum:
847.3 kg (1,868 lbs) to 1043 kg (2,300 lbs.)
199.4 cm (78.5in) aft of datum:
590 kg (1,300 lbs.)
Forward Limits: 180.3 cm (71.0in) aft of datum:
590 kg (1,300 lbs) to 822 kg (1,812 lbs.)
200.9 cm (79.1in) aft of datum:
1043 kg (2,300 lbs.)

15. Datum

152.4cm (60 inches) forward of the wing leading edge.

16. Control surface deflections

Wing flaps: 0°, 16°, 33°, 46° ± 1.0°
Ailerons: Up: 20° ± 1.5° Down 14° ± 1.5°
Elevator: Up 25° ± 1.5° Down 15° ± 1.5°
Tailwheel Configuration:
Stabilizer Leading Edge: Up 4.9° +0.1°/-0.0° Down 2.5° +0.1°/-0.0°
Rudder: Left 22.5° +0/-0.75° Right 25° +0/-0.75°
Tricycle Configuration:
Stabilizer Leading Edge: Up 5.1° +0.1°/-0.0° Down 2.8° +0.1°/-0.0°
Rudder: Left 19.5° +0/-0.75° Right 22° +0/-0.75°

See the latest approved revision of the CC19 Series "Aircraft Maintenance Manual", or other approved data, for control system rigging instructions and setting flaps up (0°) configuration.



17. Levelling Means
See latest approved revision of the CC19-215 "Pilot's Operating Handbook and FAA-Approved Flight Manual." XC11000AFM tailwheel version, or XC11020AFM tricycle version.
18. Minimum Flight Crew
One (1) Pilot
19. Maximum Passenger Seating Capacity
Two (2) seats total
Pilot located at 183.4 cm (72.2 in) aft of datum
Passenger located at 247.6 cm (97.5in) aft of datum
20. Baggage/ Cargo Compartments
The baggage area is divided into two areas. The forward cargo area has a capacity of 82 kg (180 lbs) and the aft area has a capacity of 23 kg (50 lbs). As defined in the latest approved revision of the CC19-215 "Pilot's Operating Handbook and FAA Approved Flight Manual".
21. Wheels and Tyres
- Tailwheel Configuration:
The main wheels carry 6:00 x 6 tires as standard equipment. 8:50 x 6 tires, 26 x 10.5-6 Goodyear, and 26"x12"x6" ABI tires are offered as optional equipment.
- Tricycle Configuration:
The main wheels carry 8:50 x 6 tires as standard equipment. 26 x 10.5-6 Goodyear tires are offered as optional equipment. The Nose wheel carries an 8:00 x 6 tire.
22. (Reserved)



B.IV. Operating and Service Instructions

1. Flight Manual (AFM)	Tailwheel Configuration: Aircraft Flight Manual XC11000AFM revision C dated 15 th October 2024 or later approved revision Tricycle Configuration: Aircraft Flight Manual XC11020AFM revision C dated 15 th October 2024 or later approved revision
2. Maintenance Manual (AMM)	Aircraft Maintenance Manual XC10000AMM revision C 15 th October 2024 or later approved revision
3. Structural Repair Manual	N/A
4. Weight and Balance Manual	Tailwheel Configuration: Aircraft Flight Manual XC11000AFM revision C dated 15 th October 2024 or later approved revision Tricycle Configuration: Aircraft Flight Manual XC11020AFM revision C dated 15 th October 2024 or later approved revision
5. Illustrated Parts Catalogue	N/A

B.V. Notes

NOTE 1: Installation of Wipaire 2100A amphibious or 2100S seaplane floats series floats in accordance with Cub Crafters drawings: XC44001 XC44100, XC44500, XC44700 are not validated by EASA.



SECTION ADMINISTRATIVE

I. Acronyms & Abbreviations

AFM	Airplane Flight Manual
Amdt.	Amendment
AMM	Airplane Maintenance Manual
CS	Certification Specifications
EASA	European Aviation Safety Agency
ft	feet
IAS	Indicated Airspeed
ICAO	International Civil Aviation Organization
kg	kilograms
km/h	kilometres per hour
KCAS	Calibrated Air Speed (knots)
KIAS	Indicated Air Speed (knots)
POH	Pilot Operating Handbook
TCDS	Type Certificate Data Sheet
TCDSN	Type Certificate Data Sheet Noise

II. Type Certificate Holder Record

Cub Crafters, Inc.
1918 South 16th Ave.
Yakima, WA 98903
USA

III. Change Record

Issue	Date	Changes
Issue 01	18 Dec 2017	Initial Issue
Issue 02	16 Feb 2018	Correction of Type name and Airworthiness Category in section A.I.
Issue 03	15 June 2026	Type Name changed to CC19 series; A.III.5 – engine model specified A.III.7 – Propeller EASA TCDS specified Introduction of section B for model CC19-215; A.V Notes: addition of note 1 B.V Notes: addition of note 1

-END-

