EASA

TYPE-CERTIFICATE DATA SHEET

I-23

Type Certificate Holder:

Instytut Lotnictwa

Al. Krakowska 110/114 02-256 Warszawa POLAND

Manufacturer:

Instytut Lotnictwa

Al. Krakowska 110/114 02-256 Warszawa POLAND

For variant: I-23 "Manager"

Issue 01: November 15, 2006

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SECTION 1: I-23 "Manager"

<u>.I. General</u>

Data	a Sheet No.: A.0xx	Issue: 01	Date	: November 15, 2006
1.	a) Type b) Variant		I-23 I-23 "Manager"	
2.	Airworthiness Category:		FAR-23 Normal Cate	gory
3.	Type Certificate Holder:		Instytut Lotnictwa Al. Krakowska 110/1 02-256 Warszawa POLAND	14
4.	Manufacturer:		Instytut Lotnictwa Al. Krakowska 110/1 02-256 Warszawa POLAND	14
5.	The CAO PL Certification Applica	tion Date:	March 24, 1994	
6.	The CAO PL Certification Date:		October 3, 2001	
7.	This EASA Type Certificate replace	ces the Polis	h CAO Type Certificat	e No. BB-215
<u>.II.</u>	Certification Basis			
1.	Reference Date for determining the applicable requirements:	ıe	See 1.II.5.	
2.	(Reserved)			
3.	(Reserved)			
4.	Certification Basis:		As defined below	
5.	Airworthiness Requirements:		FAR 23 Amendment February 4,1991 and FAR 23.53 (b)(2) Effective data Septen	Amendment 23-45
6.	Requirements elected to comply:		None	
7.	EASA Special Conditions:		None	
8.	EASA Exemptions:		None	
9.	EASA Equivalent Safety Findings:		None	
10.	EASA Environmental Standards:		Annex 16, Section 10 FAR Part 36, Append 36-22 Effective data I (See Note 1)	ix G Amendment

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.III. Technical Characteristics and Operational Limitations

1.	Type Design Definition:	Drawing No. 800.01.00.00.00 and following approved Design Changes					
2.	Description:	Single-engine, four-seat, cantilever low-wing monoplane, composite construction, with conventional empennage and tricycle retractable landing gear with steerable nose wheel.					
3.	Equipment:	Minimum Equipment List: AFM, Section 2 Equipment List: AFM, Section 6					
4.	Dimensions:						
	Span Length Height Wing Area:	8.94 m 7.10 m 2.48 m 10.0 m ²	(29.33 ft) (23.29 ft) (8.14 ft) (107.64 sc	ą ft)			
5.	Engine:	TEXTRON L FAA Engine		O-360-A1A cate Data Sheet No. E-286			
	5.1 Engine Limits:			er 2700 RPM - 180 hp ower 2700 RPM - 180 hp			
	For power-plants limits refer to A	FM, Section	2				
6.	(Reserved)						
7.	Propeller:	Hartzell Propeller Inc. Model: HC-C2YR-1BF/F7666A-4 FAA Type Certificate Data Sheet No. P-920 Diameter: 1.83 m (72 inches) Number of Blades: 2 Low Pitch: 12.8 ° High Pitch: 28.8° Spinner: Hartzell 836-60					
8.	Fluids:						
	8.1 Fuel:	Aviation gas	oline 100 or	100LL			
	8.2 Oil:	Refer to AFM	M, Section 1				
9.	Fluid capacities:						
	9.1 Fuel:		91 litres 74 litres	(50.5 US Gallons) (46.0 US Gallons)			
	9.2 Oil:	Maximum: 7 Minimum: 1		(8.0 qts) (2.0 qts)			

10. Air Speeds:

Maximum Structural Cruising SpeedVNO295 kmDesign Manoeuvring SpeedVA246 kmMaximum Flap Extended SpeedVFE203 kmMaximum Landing Gear Extended SpeedVLE184 kmMaximum Landing Gear Operating SpeedVLO180 km11.Maximum Operating Altitude:Not defined	n/h CAS n/h CAS n/h CAS n/h CAS n/h CAS n/h CAS						
12. Operational Capability: VFR Day, VFR Night							
IFR Day, IFR Night	VFR Day, VFR Night IFR Day, IFR Night Flight into known icing conditions is prohibited						
13. Maximum Masses:							
Take-Off1150 kg(2535 lbLanding1150 kg(2535 lb	,						
14. Centre of Gravity Range:							
Forward Limits: 0.858 m aft of datum [20.4 with a straight line taper to 0.943 m aft of datum [27.9 with a straight line taper to 0.943 m aft of datum [27.9 with a straight line taper to 0.943 m aft of datum [27.9 with a straight line taper to 0.943 m aft of datum [27.9 with a straight line taper to 0.943 m aft of datum [27.9 with a straight line taper to 0.943 m aft of datum [27.9 with a straight line taper to 0.943 m aft of datum [27.9 with a straight line taper to 0.943 m aft of datum [27.9 with a straight line taper to 0.943 m aft of datum [27.9 with a straight line taper to 0.943 m aft of datum [27.9 with a straight line taper to 0.943 m aft of datum [27.9 with a straight line taper to 0.9 with a straight line taper t							
Aft Limits: 1.007 m aft of datum [33.5	% M.A.C.] for all masses						
15. Datum: The face of frame No 1 from	n the engine side						
16. (Reserved)							
17. Levelling Means: Fuselage levelling points (re	efer to AFM, Sect. 6.1.)						
18 Minimum Flight Crew: 1 (Pilot)							
19. Maximum Passenger Seating 3 Capacity:							
20. (Reserved)							
21. Baggage / Cargo CompartmentBehind Rear Seat20 kg (44.1 lb) at 2.650 m a	aft of datum						
22.Wheels and TiresNose Wheel Tire Size5.00x5-10PR TTMain Wheel Tires Size5.00x5-10PR TT							
23. Control Surface Movements:Wing FlapsUp0° +2°Dov	wn: Take-off 23° ±1° Landing 30° ±1°						
AileronUp20.2°±1°DovElevatorUp22.5°±1°DovRudderLeft21°±1°Rigl	wn 15.8°±1° wn 21.5°±1°						

.IV. Operating and Service Instructions

Airplane Flight Manual	(AFM)	"AIRPLANE FLIGHT MANUAL. I-23 MANAGER" - Doc. No. BL-895/2001, latest approved revision				
Aeroplane Maintenance (incl. Airworthiness Lim	, , ,	"AIRPLANE MAINTENANCE MANUAL. I-23 MANAGER" - Doc. No. I-23/47/BP/2000, latest approved revision				
		OPERATOR'S MANUAL "TEXTRON Lycoming O-360, HO-360, IO-360, AIO-360, HIO-360 & TIO-360 Series Aircraft Engines'', Part No. 60297-12, latest effective issue				
		TEXTRON LYCOMING "Service Instruction O-360, HO-360, IO-360, AIO-360, HIO-360, TIO-360" , No. 1009, latest effective issue				
		HARTZELL Propeller, Manual 115N "Propeller Owner's Manual & Log Book", latest effective issue				
<u>.V.</u> <u>Notes</u>						
NOTE 1:	FAR 36, Apper	e Level in accordance to ICAO Annex 16, Section 10 / ndix G, Amdt. 36-22: 82.82±0.3 dB(A), for a limit of loise Certificate No. HL-5/03)				
NOTE 2:	This Type Certi and up.	This Type Certificate applies to aircraft S/N 800.01.02 , 800.01.03 and up.				