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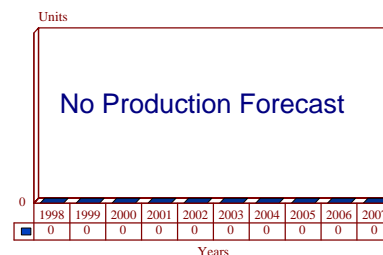
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Zlin Z-37T/137T Agro Turbo - Archived 8/99

Outlook

- Production has ended
- Most recent production models were the Z-137T single-seat agricultural aircraft and the Z-37T-2 trainer

10 Year Unit Production Forecast
1998-2007



Orientation

Description. Single-engine, turboprop-powered, single/two-seat agricultural aircraft.

Total Produced. Approximately 56 aircraft were produced, including prototypes.

Sponsor. The Agro Turbo was sponsored by Moravan Inc.

Application. Agricultural aircraft.

Contractor. Moravan Inc; Otrokovice, Czech Republic.

Price Range. Basic aircraft, estimated at \$204,000; with agricultural equipment installed, estimated at \$230,500 – both in 1997 US dollars.

Status. Production has ended.

Technical Data

	<u>Metric</u>	<u>US</u>
Dimensions		
Length overall	10.46 m	34.32 ft
Height	3.51 m	11.50 ft
Wingspan	13.63 m	44.72 ft
Weight		
Weight, empty	1,250 kg	2,756 lb
Max take-off weight, agricultural and forestry work	2,525 kg	5,566 lb
Max payload	900 kg	1,984 lb
Max fuel	280 kg	617 lb
Capacities		
Standard fuel	350 liters	92.5 gal

	<u>Metric</u>	<u>US</u>
Performance^(a)		
Max cruise speed at 500 m (1,640 ft)	190 km/h	103 kt
Climb rate, sea level	252 m/m	827 ft/m
T-O to 15 m (50 ft)	580 m	1,905 ft
Landing from 15 m (50 ft)	720 m	2,365 ft
Range, max internal fuel	350 km	188 nm
Swath width: granules	30 m	98 ft
Swath width: liquids	40 m	131 ft
Propulsion		
Z-137T	(1)	Motorlet Walter M 601Z reverse-flow, axial-centrifugal turboprop engine rated 365 kW (490 shp), driving an Avia three-bladed constant-speed propeller.

^(a)At maximum take-off weight of 2,525 kilograms (5,566 pounds).

Variants/Upgrades

XZ-37T. Designation of developmental turboprop-powered derivative of the piston-powered Z-37. This variant first flew in September 1981. It was powered by a Walter M 601B turboprop rated at 515 kW (691 shp).

Z-37T-2. Two-seat version for training agricultural pilots, this model was certificated in 1986.

Z-137T. Most recent single-seat production version. It incorporated winglets. The aircraft's M 601Z engine was fitted with an auxiliary drive system rated at 30 kW which operated the various applicator systems, including spraying gear with atomizing nozzles for liquid chemicals and a rotary duster to distribute powdered, crystallized or granulated fertilizers and pesticides.

Program Review

Background. After having produced more than 700 piston-powered Z-37A Cmelak (Bumblebee) agricultural aircraft, Moravan built an XZ-37T prototype powered by a 515-kW (691-shp) Walter M 601B turboprop powerplant. This aircraft flew for the first time in 1981. The following year, Moravan initiated the design of the Z-37T, fitted with a less powerful (365 kW/490 shp) M 601Z engine and

winglets. Two prototypes flew in 1983. Certification and initial delivery took place in 1984 and 1985, respectively. The most recent single-seat production aircraft were designated Z-137T.

Approximately 51 single-seat agricultural aircraft and two Z-37T-2 two-seat trainers were produced. Sales were garnered in Bolivia, the Czech Republic, France, Hungary, Slovakia, South Africa, Sudan and Turkey.

Funding

Not available.

Timetable

<u>Month</u>	<u>Year</u>	<u>Major Development</u>
Sep	1981	XZ-37T first flight
Jul	1983	First flight of second prototype

1984 BCAR certification received
 1985 Initial delivery
 1986 Two-seat Z-37T-2 certificated

Worldwide Distribution

Slovak operator Slov Air took delivery of at least 24 aircraft. A complete breakdown of customers is not available.

Forecast Rationale

Moravan has ended production of the Z-37T/137T series. Among the company's current products are new Lycoming-powered aerobatic and trainer aircraft. These include the two-seat Z-242L and the four-seat Z-143L.

Ten-Year Outlook

ESTIMATED CALENDAR YEAR PRODUCTION

Aircraft	(Engine)	thru 97	High Confidence Level				Good Confidence Level				Speculative		Total 98-07
			98	99	00	01	02	03	04	05	06	07	
ZLIN AIRCRAFT MORAVAN NATIONAL													
ZLIN Z-37T/137T	M 601Z	56	0	0	0	0	0	0	0	0	0	0	0
Total Production		56	0	0	0	0	0	0	0	0	0	0	0