

# THE NEXT GENERATION TRAINER FACTSHEET



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Pilatus Aircraft Ltd's PC-21 turboprop product has been developed and certified as a completely new training system with the objective of meeting the expectations of modern air forces over the next 30 years, both in terms of capability and life-cycle cost. The PC-21 has a superior aerodynamic performance when compared with any other turboprop trainer on the market, a more powerful, flexible and cost-effective integrated training system than any other jet or turboprop trainer and a life-cycle support cost equal to current turboprop benchmarks.

### TRAINING ROLES

- Basic Flying Training
- Full Mission Management Training
- Advanced Flying Training
- Embedded Simulation and Emulation

### FEATURES



- 1 Scimitar 5-blade graphite propeller
- 2 Anti-G system
- 3 On-board oxygen generating system (OBOGS)
- 4 Pressurised, stepped, tandem cockpit with birdstrike resistant canopy
- 5 0-0 ejection seats
- 6 Automatic yaw compensation
- 7 1,600 shp Pratt & Whitney PT6A engine with power management software
- 8 8 G, high speed profile wing with hydraulic ailerons and spoilers
- 9 Open architecture mission computer with AMLCD monitors and separate critical and noncritical software
- 10 Pressurised refuelling

### PERFORMANCE

The PC-21, in the acrobatic configuration, has the following performance under international standard atmospheric (ISA) conditions:

Take-off distance over 50 ft (15 m) obstacle at sea level	2,618 ft	798 m
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Landing distance over 50 ft (15 m) obstacle at sea level	3,383 ft	1031 m
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Max. rate of climb, sea level	4,091 ft/min	20.78 m/s
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Max. operating speed ( $V_{mo}$ )	370 KEAS	685 km/h
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Max. cruise speed ( $V_H$ )		
• At sea level	323 KTAS	598 km/h
• At 10,000 ft (3,048 m)	337 KTAS	624 km/h

Stall speed		
• Flaps and gear up ( $V_s$ )	92 KCAS	170 km/h
• Flaps and gear down ( $V_{so}$ )	81 KCAS	150 km/h

G loads	Aerobatic	Utility
• Max. positive	+8.0 g	+5.0 g
• Max. negative	-4.0 g	-2.5 g

Max. range	720 nm	1,333 km
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### WEIGHTS

Basic empty weight (depending on configuration)	5,026 lb	2,280 kg
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Max. take-off weight		
• Aerobatic	6,834 lb	3,100 kg
• Utility	9,370 lb	4,250 kg

