

 Crafted in Switzerland

PC-21

# THE NEXT GENERATION TRAINER



 **PILATUS** 



## THE NEXT GENERATION TRAINER

Pilatus Aircraft Ltd's newest turboprop product, the PC-21, 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 fiveblade graphite propeller
- 2 Anti-g system
- 3 On-board oxygen generating system (OBOGS)
- 4 Pressurized, stepped, tandem cockpit with birdstrike resistant canopy
- 5 0-0 ejection seats
- 6 Automatic yaw compensation
- 7 1600 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 Pressurized refuelling

### PERFORMANCE

The PC-21, in the acrobatic configuration, at MTOW, 6,834 lbs (3,100 kg) 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
Landing distance over 50 ft (15 m) obstacle at sea level	3,383 ft	1031 m
Max. rate of climb, sea level	4,091 ft/min	20.78 m/sec
Max. operating speed ( $V_{mo}$ )	370 KEAS	685 km/h
Max. cruise speed ( $V_H$ )		
- at sea level	323 KTAS	598 km/h
- at 10,000 ft	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	Acrobatic	Utility
- max. positive	+ 8.0 g	+ 5.0 g
- max. negative	- 4.0 g	- 2.5 g

### WEIGHTS

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

