

TITAN™ ENGINE

PERFORMANCE SPECIFICATIONS



	X-320	X-340	X-360	X-370	IOX-540
AIRFRAME:	Experimental	Experimental	Experimental	Experimental	Experimental
MAXIMUM CONTINUOUS HP:	160	174/180	180	185/195	260/270
MAXIMUM RPM @ FULL POWER:	2700	2700	2700	2700	2700
RECOMMENDED TBO:	2000 (ASTM) hours	2000/2400 (ASTM) hours	2000 hours	2000 hours	2000 hours
NUMBER OF CYLINDERS:	4	4	4	4	6
BORE:	5.125 in	5.125 in	5.125 in	5.125 in	5.125 in
STROKE:	3.875 in	4.125 in	4.375 in	4.5 in	4.375 in
DISPLACEMENT:	320 in ³	340 in ³	361 in ³	371 in ³	541 in ³
COMPRESSION RATIO:	8.5:1	8.0:1/9.0:1	8.5:1	8.3:1/9.6:1	8.5:1/9.0:1
CHT – MAXIMUM:	500°F	500°F	500°F	500°F	500°F
CHT AT MAXIMUM CRUISE (RECOMMENDED):	425°F	425°F	425°F	425°F	425°F
SPARK PLUG BOSS*:	18mm	18mm	18mm	18mm	18mm
FUEL DELIVERY:	Carb/Injection	Carb/Injection	Carb/Injection	Carb/Injection	Carb/Injection
AVIATION GRADE, OCTANE (RECOMMENDED):	93/100/100LL	100/100LL	100/100LL	100/100LL	100/100LL
HEIGHT:	20.36-23 in	20.36-23 in	20.36-24.8 in	20.36-24.8 in	24.50 in
WIDTH:	32.27 in	32.27 in	33.41 in	33.41 in	33.41 in
LENGTH:	29.07 in	29.07 in	29.07 in	29.07 in	38.40 in
ESTIMATED DRY WEIGHT**:	268 lbs	259-296 lbs	270 lbs	277-296 lbs	401 lbs
NORMAL OPERATING OIL TEMP:	180°F-245°F	180°F-245°F	180°F-245°F	180°F-245°F	180°F-245°F
NORMAL OPERATING OIL PRESSURE, PSI (MAXIMUM/MINIMUM/IDLING):	90/60/25	90/60/25	90/60/25	90/60/25	90/60/25
ENGINE MOUNT:	Dynafocal Type 1 or Conical	Dynafocal Type 1 or Conical	Dynafocal Type 1 or Conical	Dynafocal Type 1 or Conical	Mount Brackets
PROPELLER:	Constant Speed or Fixed	Constant Speed or Fixed	Constant Speed or Fixed	Constant Speed or Fixed	Constant Speed
PROP GOVERNOR LOCATION:	Right Rear/Front LH	Right Rear/Front LH	Right Rear/Front LH	Right Rear/Front LH	Front LH
CRANKSHAFT FLANGE:	0.38 in thick	0.44 in thick	0.44 in thick	0.44 in thick	0.44 in thick
CRANKSHAFT BUSHINGS (PROP BOLT SIZE):	3/8 or 7/16 UNF	3/8 or 1/2 UNF	1/2-20 UNF	1/2-20 UNF	1/2-20 UNF
CRANKSHAFT OIL CAPACITY:	8 quarts	8 quarts	8 quarts	8 quarts	12 quarts
INDUCTION PLENUM:	Warm/Cold	Warm/Cold	Warm/Cold	Warm/Cold	Warm/Cold
SUMP OPTIONS:	Aluminum / Magnesium	Aluminum / Magnesium	Aluminum / Magnesium	Aluminum / Magnesium	Magnesium

* Can be configured with 14mm inserts for certain electronic ignition systems.

** Engine weights vary with engine model and configuration.