

# QUEENSLAND ULTRALIGHT ASSOCIATION

## MARCH 2006 NEWSLETTER

Watts Bridge Memorial Airfield, Silverleaves Road via Toogoolawah, Qld

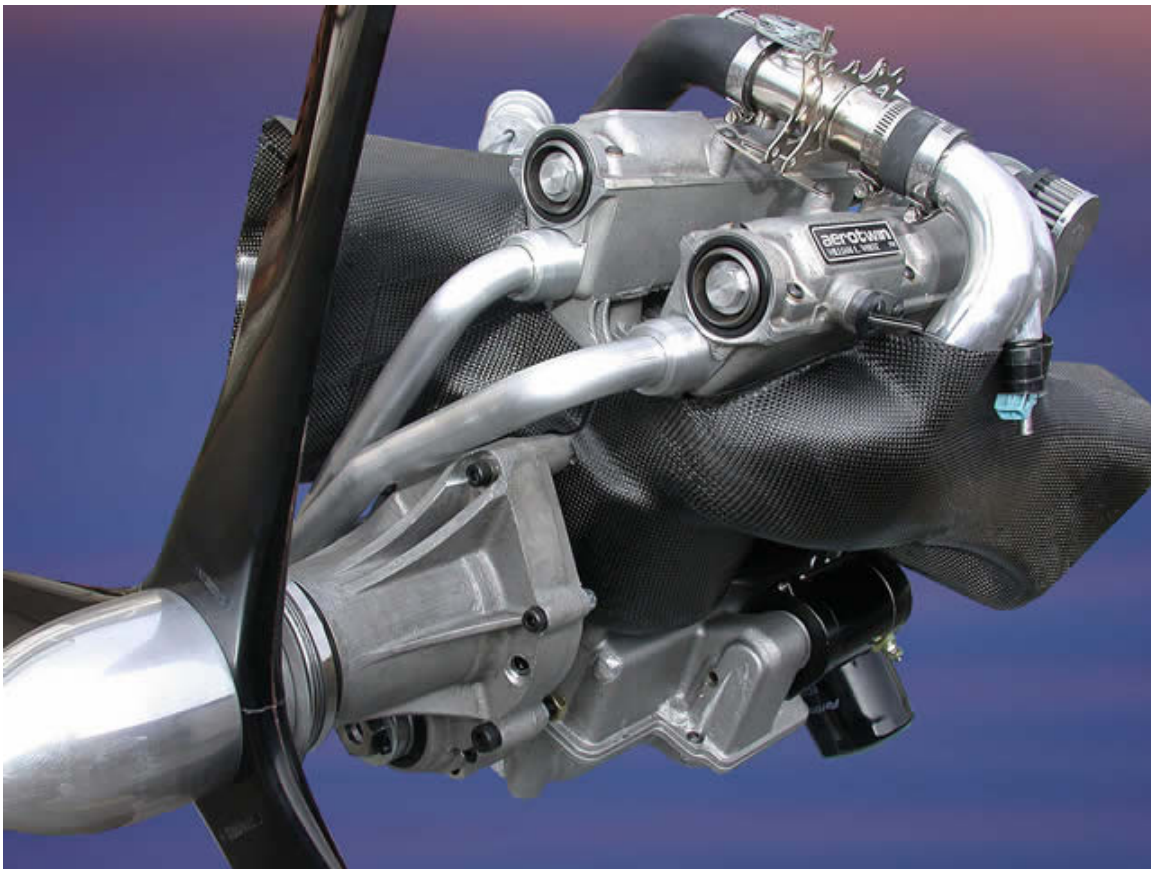
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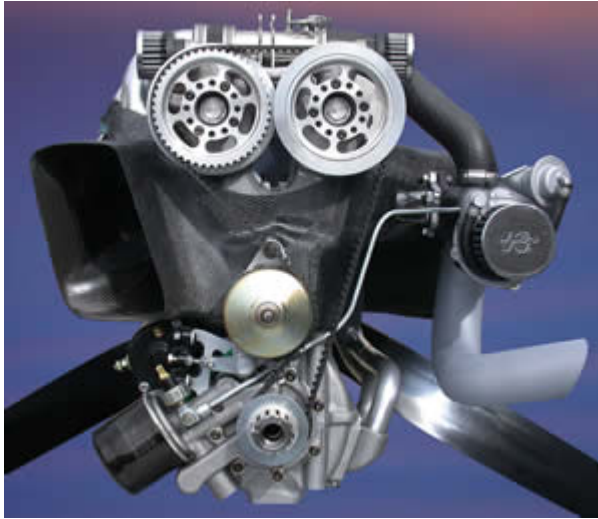
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## INTRODUCING A NEW ENGINE



THE AERO TWIN FROM NEW ZEALAND

## AeroTwin Engine Specifications:



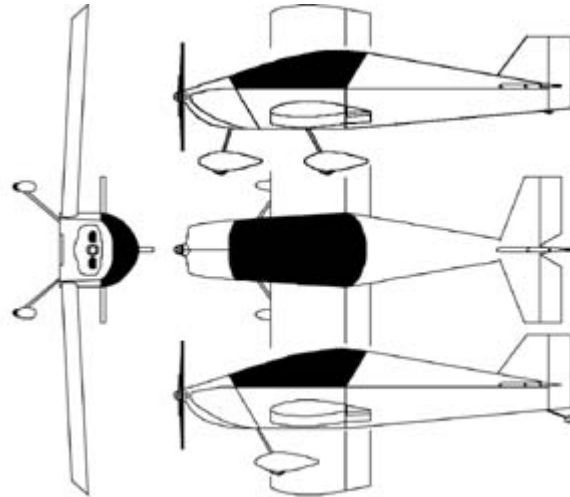
### General Specifications:

- 65 HP @ 4200 RPM
- Weight: 105 lbs
- Dimensions (Height): 17.5"
- Two Cylinders, In Line
- Dry Sump (Runs in Vertical and Horizontal position)
- Air Cooled 972cc 4 Stroke°
- Bore: 101.6
- Stroke: 60mm
- Compression Ratio: 8.0:1
- Manifold Pressure: 8 psi
- Two Sparkplugs per Cylinder
- Two Valves per Cylinder
- Belt Driven Twin Camshafts
- Electronic Fuel Injection and Ignition
- Fuel Octane Requirement: 91UL
- Gear Reduction Box: 18.5lbs (see detail below)
- Propeller Flange: standard output flange has 75mm and 100mm bolt-circle pattern for mounting, an aircraft standard SAE No.2 propeller flange is also available as an option

The Aero Twin is a new lightweight engine manufactured by the Pearson Motor Company in Christchurch New Zealand. This engine is unique in being a dry sumped, fuel-injected, turbo-charged, two cylinder, inline four stroke with twin overhead camshafts. In a tractor installation the engine can be aircooled as in the photo above or water cooled for helicopter or gyro-copter installations. A built in gearbox is also available in various gear ratios to suit the application. Being dry sumped with a separate oil tank, this engine would also be suited for aerobatic operations. The Aero Twin should allow considerable savings in fuel consumption compared to a two stroke engine of similar power and weight in the right airframe.. Further information is available from [www.aerotwinmotors.com](http://www.aerotwinmotors.com)

# AIRCRAFT OF THE MONTH

***sonex***,*ltd.*



## Specifications

The Sonex is a basic and economical all-metal two place monoplane. Designed to meet the needs of the European and Domestic sport aircraft markets, it can incorporate various light weight contemporary engines of 80 to 120 hp (engine package weight of less than 200 lbs.) The three factory-supported powerplants include the 2180cc AeroVee, 2200 Jabiru, and 3300 Jabiru.

Outstanding performance is achieved through its clean aerodynamic shape and simple,

light weight construction. The Sonex enjoys the largest performance envelope of any kit airplane with a stall speed of 40 mph and a cruise speed of up to 170 mph. It is aerobatic (+6/-3), yet docile for the low-time pilot. The Sonex may be built in a tri-gear or conventional-gear configuration. The ST version of the Sonex features center controls for flight training for the Sport Pilot license.

<b>SPECIFICATIONS:</b>	<b>Sonex:</b>	
Length	17' 7"	
Wing Span	22'	
Wing Area	98.0 sq. ft.	
Tail Configuration	Conventional	
Air Foil	64-415	
Primary Structure	6061 aluminum	
Cockpit Width	40 in.	
Fuel capacity	16 Us Gal.	
Stall Speed (full flaps)	40 mph [64 km/h]	
Stall Speed (clean)	46 mph	
Max Flap Extended Speed (Vfe)	100 mph [161 km/h]	
Maneuvering Speed	125 mph [201 km/h]	
Never Exceed Speed (Vne)	197 mph [317 km/h]	
Landing Gear	Taildragger	
(optional)	Tri-gear	
Controls	Single Center Stick	
(optional)	Dual Control Sticks	
<b>PERFORMANCE:</b>		
Engine	80 hp	120 hp
Empty Weight (average,lbs)	620 lbs.	630 lbs.
Aerobatic Gross Weight (+6,-3gs)	950 lbs.	950 lbs.
Utility Gross Weight (+4.4,-2.2gs)	1100 lbs.	1150 lbs.
Baggage (Max)	40 lbs.	40 lbs.
Useful Load	480 lbs.	530 lbs.
Range	550 miles	400 miles
Cruise Speed @ Sea Level*	130 mph	135 mph
Cruise Speed @ 8000 ft (TAS)	150 mph	170 mph
Power Loading (GW/HP)	13.125	9.583
T.O.Distance	400 ft	250 ft
Landing Distance	500 ft	500 ft

# QUEENSLAND ULTRALIGHT ASSOCIATION

## MINUTES OF FEBRUARY GENERAL MEETING

MEETING OPENED	08.00 pm
APOLOGIES	Nil
VISITORS	Robyn Salisbury
MINUTES OF PREVIOUS MEETING	MOVED SECONDED CARRIED
TREASURERS REPORT BANK BALANCE	\$5,788.19 / \$15,000 invested
SECRETARIES REPORT	No business
BUSINESS ARISING FROM MINUTES	No business outstanding.
GENERAL BUSINESS	Airport Security Card Cut off date is 1 <sup>st</sup> April 2006 After this date it will be illegal to operate at the listed aerodromes. For quick processing/ approval it has been suggested to go to the CASA front desk at Navigator Street Nudgee.  Andy Dunlop is recovering following a recent automotive accident. We wish Andy a speedy recovery.
TECHNICAL REPORT	In a recent Recreation Aviation Mag was an article discussing using a pressurized fuel container to raise fuel to the height of a fuel tank. Richard Sweetapple talked about the danger of creating static electricity caused by a moving gas creating a static charge. The need for earthing of fuel tanks and refuelling equipment was also discussed for safety reasons.
A BIG THANKYOU	to Robyn for preparing the supper.
MEETING CLOSED	08.20 pm

# AIRCRAFT FOR SALE



## MUSTANG P51B Amateur built 2/3rd scale standoff replica.

Cruise 90 Knots, Stall 40 Knots.  
Powered by a Rotax 503 - 52 HP,  
DCDI, E Type Gear box. Electric start  
complete with muffler and propeller.  
Instruments include ASI, Altimeter,  
Slip/Skid, Compass, Rotax  
Tachometer, Dual EGT, CHT, Hour  
Meter and Voltmeter. Fitted with  
Powermate Regulator and Battery.  
Engine and Airframe 105 Hours.  
Excellent condition.

Price \$20,000 complete or \$15,500  
without engine, propeller and muffler.

Aircraft was flown regularly until 3  
years ago (deceased estate).

Contact Richard on (07) 3818-1988AH  
or 0412-317-754



## TEAM HIMAX

Build by Jack Brown in Kyogle.

Powered by Rotax 447 – 42 hp,  
B Gearbox, with timber propellor  
and pull starter.

Instruments include ASI, Altimeter,  
Slip/Skid, Compass and GPS.

An open trailer is included for transport.

Engine and airframe is in excellent  
condition with low hours flown.

Current owner is unable to continue flying  
so is keen to find a new owner for this  
aircraft.

Price is very reasonable at \$6,000  
complete with the trailer.

Contact Les on (07) 55377743 for more  
details.

Richard Faint has a request for those who wish to receive their newsletter by email. To update his database, please send Richard an email from the address you wish to have the newsletter sent to. Please contact Richard using [rlfaint@auav.org](mailto:rlfaint@auav.org)





# Queensland Ultralight Association

## APPLICATION FOR MEMBERSHIP

I hereby apply for membership of the Queensland Ultralight Association(QUA)

Enclosed is a cheque for \$40.00 payable to the QUA for one year's membership.

**Name:** \_\_\_\_\_

**Address:**

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**State:** \_\_\_\_\_ **Post Code:** \_\_\_\_\_

**Telephone:** \_\_\_\_\_ **Email:** \_\_\_\_\_

**Aviation History and Qualifications:**

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**Signed:** \_\_\_\_\_ **Dated:** \_\_\_\_\_

**Proposed:** *Richard Faint* **Seconded:** *Gaven McGrath*

Please return this form completed and signed to the attention of:

**Queensland Ultralight Association  
The Treasurer, Mr Richard Faint  
21 Redgum Court  
Bellbird Park Qld 4300**