

Wagtail Aviation. Safe, Reliable and Cost effective

Why an Autogyro?

- Stability
- Safe low-level operation
- Easy to fly
- Short take-off and landing
- Payload capacity
- Simplicity of design
- Multi-Role capability
- Inherent safety
- Cost effective to operate
- Commercial and Recreational use

Wagtail Aviation (Pty.) Ltd.

Farm Klipdrift

Parys District

Free State

South Africa

26 Deg. 53' 32" S, 27 Deg. 41' 20" E.

www.wagtail.co.za

Wagtail Aviation (Pty.) Ltd.

Rotorcraft Development, Special
Projects and Maintenance





Trojan Autogyro

The Trojan was developed for a harsh, high altitude commercial environment that demands unprecedented reliability and low maintenance operation.

The result was an autogyro like no other, a mixture of competent engineering, experience and unique systems developed in-house for special projects.

The Trojan as it is today evolved over many years of commercial operations and with features like full pneumatically assisted suspension for the rough stuff and powerful Subaru engines making light work of any load, it delivers unrivalled performance in both the recreational and commercial environments.

Base Specifications

- Powerful Subaru Engine
- Full Pneumatically Assisted Suspension
- Large diameter 6-ply tyres
- Hydraulic Disc Brakes
- External Power Points
- Air-to-Ground Network on 2,4GHz
- Full, Windows based, Solid State Computer
- Dual ECU units

Powertrain Detail

Engine Description	Subaru EJ20/Subaru EJ25
Power	180hp/140hp
Induction Type	Forced, Turbocharged/Normally Aspirated
No. of cylinders	4
Engine Type	Reciprocating, Boxer type/Horizontally opposed
Propeller Manufacturer	IVO Prop – 3 Blade, Ground adjustable pitch Propeller

Weight

MTOW	790kg
Empty Weight	440kg/410kg
Useful Weight	350kg/380kg

Performance

Comfortable Low Speed	45 – 50mph
Most Economical Cruise	70mph
Comfortable Long Distance Cruise	80 - 85mph
High Speed Cruise	95 – 100mph (34ft. Rotor)/90 – 95mph (36ft. Rotor)
V _{NE}	100mph (34ft. Rotor)/115mph (36ft. Rotor)
Power	180hp/140hp
Fuel Tank Capacity	120 – 150 l
Range	540 - 700km
Endurance	4.5 - 6hours

Dimensions

Total Height	2.8m
Total Length	5.1m (does not include disc diameter)
Total Width	1.2m

