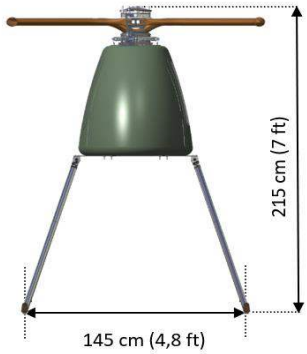
Mono 550 Helicopter | High Payload UAV

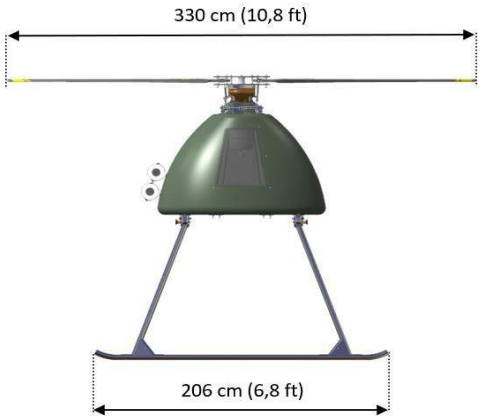
Rigid Rotor two-bladed helicopter with smooth transmission
(driven by ejection of gases from a turbojet)
and electrically driven yaw control

PHENIX SOLUTIONS, Inc.

- Cyclic control by Swash Plate and 4 Servomotors
  - 3 required + 1 as backup
- Yaw control by 2 Electric Duct Fans
  - Brushless motors with faired propellers



Front View



Side View

Technical Information

MTOW	250 kg | 550 lbs
Empty Weight	64 kg | 141 lbs
Useful Mass	186 kg | 410 lbs
Flight Duration	90 minutes
Cruise Speed	148 km/h | 80 kts | 92 mph
Range	222 km | 138 miles
Fuel type	Jet A1 Kerosene + 5% Oil
Fuel Capacity	135 litres | 36 gal | 95 kg
Main Rotor Speed	1400 RPM (Governor)
Available Power to the Rotor	43 kW | 58 hp
Power Loading / Lift Efficiency	5,7 daN/kW
Disk Loading	29 daN/m²
Yaw Control	2 Electric Ducted Fans
Landing Gear	Foldable with suspension
Anchor points	4 screws under the Unit

First Prototype Data :

- Control : semi-manual (Head-Lock)
- Radio-Controller Transmission : Jeti 2,4GHz (Duplex 2.4 EX)
- Servomotors : Volz DA-26 or MKS HBL388
- Backup battery for powering of the servomotors and the receiver
- Telemetry on Transmitter

Phenix Solutions, Inc. 4091 Ridge CT West Linn, OR 97068 ph:(503) 851-1659
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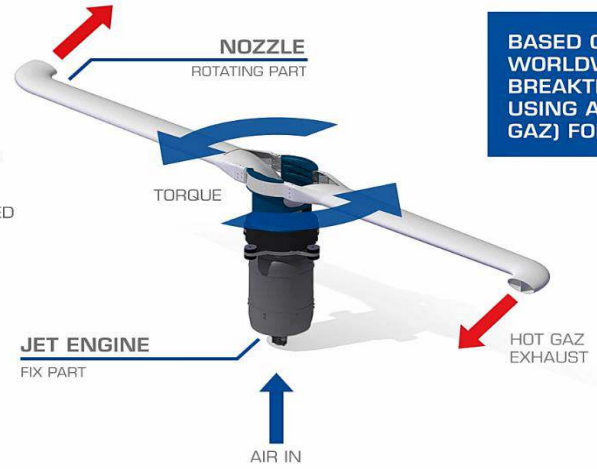
EYO Engine 550 | Heavy Lift Operations

Compact, Lightweight & Powerful Powerplant, smooth Transmission
(driven by ejection of gases from a turbojet)

PHENIX SOLUTIONS, Inc.

TECHNOLOGY & INNOVATION

- VERTICAL JET ENGINE
- HOT GAZ EJECTED AT THE TIP OF 2 REVOLVING NOZZLES
- ROTATING THRUST TRANSFORMED INTO A LIFTING FORCE
- FREE REVOLVING SHAFT, NO RIGID LINK TO THE BODY STRUCTURE

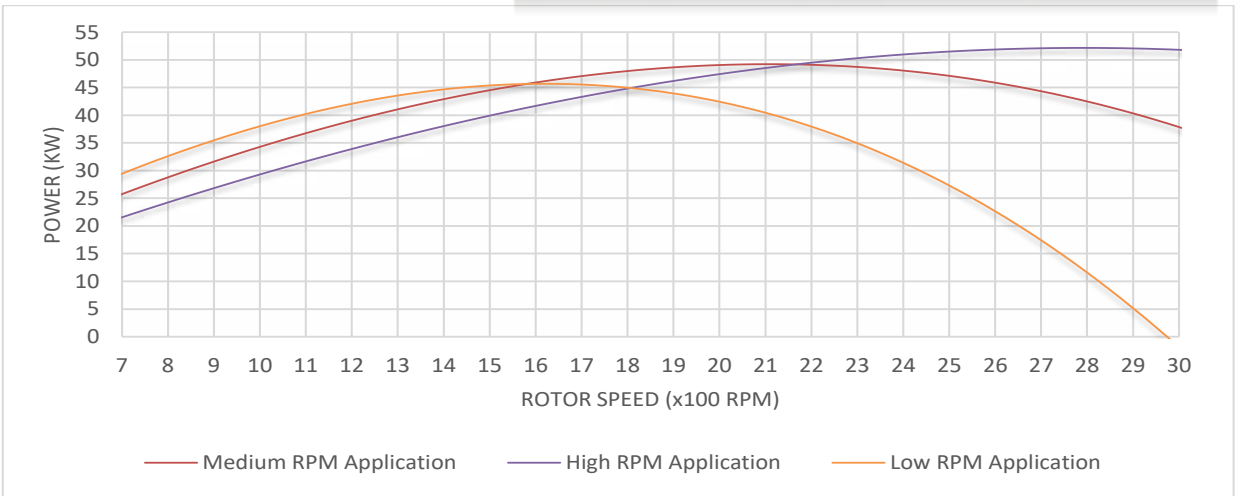


BASED ON AN INNOVATING, WORLDWIDE PATENTED, BREAKTHROUGH TECHNOLOGY USING A DIRECT FLUID (HOT GAZ) FORCE TRANSMISSION.

Technical Information

Weight Ready to Run	16 kg | 35 lbs
Mechanical Power	40-52 kW | 53-70 hp
Settable Rotor RPM Range	700-3000 RPM
Fuel type	Jet A1 Kerosene + 5% Oil

- ✓ No Torque Effect on the fixed Part
- ✓ Very High Motor Torque at low RPM
- ✓ Power to Weight Ratio
- ✓ Easy Operation and Maintenance
- ✓ Low Vibration
- ✓ Minimum number of Parts



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