

June 2023

# ROTORX

Aircraft Manufacturing Co.

*"Continuing the RotorWay Legacy"*



**INTRODUCING THE NEW**

**PHOENIX  
A600 TURBO**

602.377.5482



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## "Continuing the RotorWay Legacy"

Rotor X Aircraft Manufacturing Company has been manufacturing the world's most affordable and reliable 2-seat personal kit-built helicopters for over 50 years while still supporting and supplying parts for over 2,500 kits around the world.

At Rotor X, we have made it our mission to provide a kit-built helicopter designed specifically to reduce hours of build time, and to create an assembly process suited for all levels of aviation build experience.

Meanwhile, we continue to pride ourselves in being one of the most affordable personal 2-seat helicopters nationwide, at a lower cost than any of our market competitors.

Our commitment to ensure that each of the components are tested and held to the highest standard makes the Phoenix A600 Turbo the #1 choice for builders worldwide.

# INTRODUCTION TO THE NEW PHOENIX A600 TURBO

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After taking over the building that RotorWay occupied in the fall of 2020, our first order of business was collecting and researching over 50 years of data and history. Our team of highly skilled engineers spent weeks dusting off countless piles of blueprints, sketches, and archived files that were left behind.

The importance of understanding this one of a kind helicopter, while studying and receiving feedback from the RotorWay community, has made it possible for us to proudly offer the most advanced machine ever released in the two-seat kit helicopter world, the Phoenix A600 Turbo.

The new Phoenix A600 Turbo comes with a 180hp turbo charged engine that is made in-house. This updated version of the turbo engine that has been active since 2007 lasts longer, requires less maintenance, and produces much more power.

Other improvements to the "Exec" style helicopter include, lowered seats for more headroom, a shaft-driven tail rotor, a more prominent glass display, a governor, and straight landing gear to prevent spreading.

# Phoenix A600 Maintenance



After completing your new Phoenix A600, you will be awarded a certificate to do your own maintenance, eliminating the need to hire an A&P to maintain your helicopter. With an operating cost of just around \$70/hr, the new Phoenix A600 is one of the most affordable aircraft to own.

## Phoenix A600 Turbo Estimated Operating Costs

ITEM	Recommended time interval (flight hours)	Cost (USD)	Cost per 2000 hours (USD)	Hourly Cost (USD)
<b>Phoenix A600 Turbo, FADEC System, MGL/EFIS &amp; GPS</b>				
<b>Reserve for Periodic Inspection</b>				
25 Hour Inspection (oil filter, Valvoline 20W-50)	25	\$ 45.25	\$ 3,620.00	\$ 1.81
100 Hour Inspection (thrust block alignment bearing, pitch pins, spark plugs, fuel filter, oil filter)	100	\$ 987.45	\$ 19,749.00	\$ 9.87
250 Hour Inspection (hose kit, air filter)	250	\$ 661.35	\$ 5,290.80	\$ 2.64
500 Hour Inspection (main drive belts, lower and upper fan belts, main shaft lower bearing, M/T blades and bearings, and 250 hour parts)	500	\$ 6,015.00	\$ 24,060.00	\$ 12.03
			<b>SUBTOTAL = \$</b>	<b>26.35</b>
<b>Reserve for Engine and Gearbox Overhaul</b>				
1000 hour factory engine overhaul (labor)	1000	\$ 5,040.00	\$ 10,080.00	\$ 5.04
T/R Gearbox Assembly (labor)	1000	\$ 510.00	\$ 1,020.00	\$ 0.51
			<b>SUBTOTAL = \$</b>	<b>5.55</b>
<b>Reserve for Main Rotor Blades</b>				
1500 hour factory new main rotor blades	1500	\$ 10,820.00	\$ 14,426.66	\$ 7.21
			<b>SUBTOTAL = \$</b>	<b>7.21</b>
			<b>Total Reserve Cost per Hour = \$</b>	<b>39.11</b>
<b>Direct (Variable) Operating Cost</b>				
Fuel (92 Octane Auto Fuel @ \$4/gal @ 8 gal/hr.)				\$ 32.00
Reserve for Periodic Inspections				\$ 26.35
Reserve for Overhaul and M/T Blades				\$ 10.71
			<b>Total Operating Cost per Hour = \$</b>	<b>69.06</b>

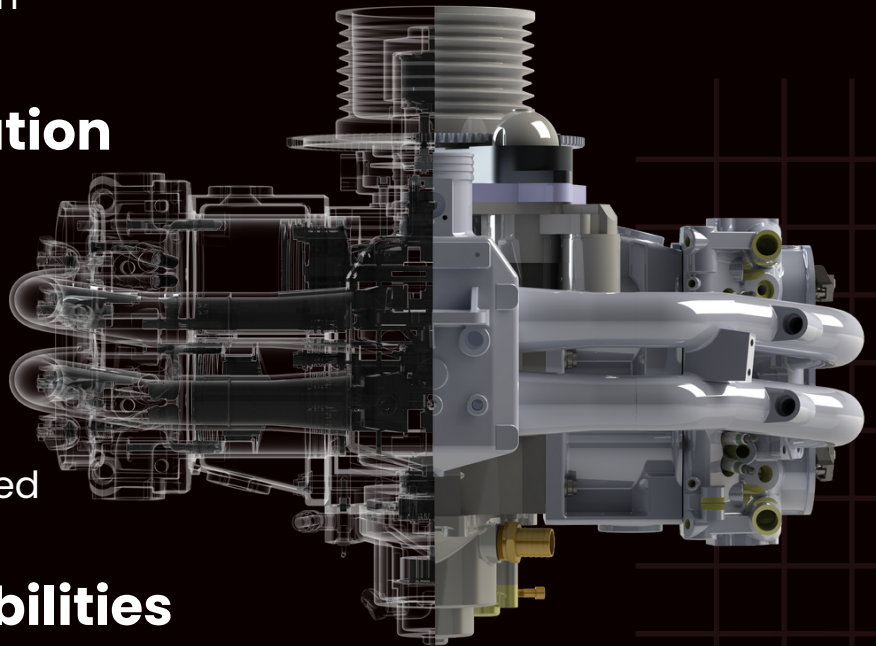
# 5 Phoenix A600 Specifications

## Performance Standard Conditions

- 115 mph, 100 kts (not to exceed)
- Cruise Speed: 95mph, 83 kts
- Max Sideways, Rearward Airspeed: 20 mph, 17 kts
- Fuel Consumption Average: 8 gph, 30 liters per hour
- Fuel Capacity: 17 gallons, 64 Liters | 31 gallons with aux tank
- Max Range: 170 SM, 148 NM | 320 SM with aux tank
- Hover in Ground Effect (HIGE): 9000 ft, 2743 m
- Hover Out of Ground Effect (HOGE): 7000 ft, 2134 m
- Service Ceiling: 11500 ft, 3505 m

## Powerplant Configuration

- Operational RPM: 3900
- Idle RPM: 1800
- Fuel: 91 Octane, 100LL
- Main Rotor RPM: 520
- Tail Rotor RPM: 2600
- Cooling Method: Water-cooled



## Vehicle Weight/Capabilities

- Gross Weight: 1630 lb, 740 kg
- Empty Weight: 975 lb, 442 kg
- Useful Load: 655 lb, 297 kg
- Pilot, Passenger, Baggage: 545 lb, 247 kg



# 7 Phoenix A600 Payment Options

Rotor X Aircraft now offers three different payment options for the Phoenix A600 Turbo. Paying in full will get you a slight discount while placing a 50% deposit allows you to split up your payments with no interest.

## FULL PAYMENT

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- Discount of \$8,000

**\$130,000**

## HALF DOWN PAYMENT

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- Deposit: \$69,000
- Two payment schedule options:
  - 12 Monthly Payments of \$5,750
  - 4 Quarterly Payments of \$17,250
- No Interest on payments

**\$138,000**

\*Pricing is based on June 2023 figures and is subject to change.





# Options and Upgrades

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## **A600 Governor - \$4,000**

The new A600 governor was designed specifically for Rotor X and it makes flying easier by monitoring the MAP sensor, engine RPM, and rotor RPM to proactively govern rotor RPM.

## **Cargo Pod - \$4,000**

The cargo pod or "Helipac" attaches to the belly of the ship and provides additional storage space.

## **LED Light Package - \$1,800**

The standard Phoenix A600 kit does not come with external lights, however, the LED Light Package includes red/green tip lights, white tail lights, white strobe flashers, an LED rotating beacon, and landing/anti collision lights.

## **Extended Range Fuel Tank - \$7,500**

Comes in a modified version of the cargo pod and can be attached or removed as needed. The auxiliary bladder can carry an additional 14 gallons of fuel and it feeds directly into the standard fuel tanks.

## **Lowered Seats - \$2,000**

The lowered seats package takes advantage of unused space under the seat panel to add an extra 3 inches of head room in the cabin.

## **10.4 Inch MGL Glass Display - \$1,000**

The upgraded MGL glass display is a larger version of the standard Discovery Lite. It includes all of your engine and rotor information, as well as, GPS, and various other features.



# 9 Kit Components and Delivery

A full Phoenix A600 kit takes around 10–12 months to deliver; however, we ship in groups so that you can begin assembly in four to six months. Shipping the kit in groups also allows for a more organized build.

Group 1	Group 2	Group 3	Group 4
<ul style="list-style-type: none"><li>• 4130 Chromoly Steel Airframe</li><li>• Tail Boom</li><li>• Landing Gear</li><li>• Engine Mount</li><li>• Cyclic &amp; Collective</li></ul>	<ul style="list-style-type: none"><li>• Elastomeric Rotor System</li><li>• Main Shaft Assembly</li><li>• Hardware Cards</li><li>• Battery</li><li>• Body Components</li></ul>	<ul style="list-style-type: none"><li>• Secondary Drive System</li><li>• Tail Rotor Drive Components</li><li>• Fan Drive</li><li>• Engine Cooling System</li><li>• Cog Belt System</li><li>• Oil System</li></ul>	<ul style="list-style-type: none"><li>• Main Rotor Blades</li><li>• Engine and Turbo</li><li>• FADEC System</li><li>• Optional Upgrades</li></ul>



# Builder Assist

The build process for the new Phoenix A600 Turbo is pretty straightforward compared to kits of the past.

Most of the more complicated aspects of the build are done in the factory and we provide support through phone and video calls.

We also recognize that some people might need a higher level of support so Rotor X now offers an in-house builder assist program, as well as multiple 3rd party options around the world.

Call or email us for more information about builder assist and flight ready options.

(602) 377-5482  
sales@rotorxaircraft.com



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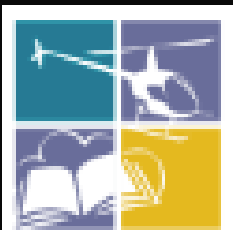
## Flight Training

Rotor X does not currently offer flight training, however, we can send our CFI out to give you transition training in your own ship.

If you are starting from scratch, we can connect you with a CFI in your area to help with flight training. If you live in a remote area, we can find trainers that will travel to you.



## HeliGroundSchool.com



Over 20 hours of helicopter ground school instruction for the cost of less than 1 hour of helicopter flight instruction!

The HeliGroundSchool.com course is designed for helicopter student pilots and is focused on helicopter content first or foremost! It offers helicopter student pilots a complete set of helicopter specific theory.

- No prior knowledge required
- Provides exceptional foundational helicopter theory needed to progress as a helicopter student pilot
- Will supplement and complement the student's existing knowledge base and any course material currently in use
- A great refresher course to review studies already completed

# Maintenance Services

## Need something fixed?

Send us an email with a description of what you need fixed or overhauled and we'll get back to you with price estimates and schedules.

## Overhaul and Repair of:

- Engines
- Rotor systems
- Gearboxes
- Secondaries

## Replacement of:

- Tail rotors
- Main rotor blades
- Vertical and horizontal stabilizers
- Tail booms
- Landing gear and skids

Contact the parts department for more info: **(602) 377-5434**



## How To Place An Order

Getting started is easy! All we need is a shipping address and a 50% deposit. You also have the option of paying for the kit up front instead of placing a deposit. This will shave \$6,000 off the total price of your kit.

Feel free to give us a call anytime at +1 (602) 377-5482 or send an email to [sales@rotorxaircraft.com](mailto:sales@rotorxaircraft.com) to place an order.

Follow us on social media for news and updates

[facebook.com/rotorx.us](https://facebook.com/rotorx.us)

[instagram.com/rotor\\_x\\_aircraft](https://instagram.com/rotor_x_aircraft)

[www.RotorXAircraft.com](http://www.RotorXAircraft.com)



## PHOENIX A600 MEASUREMENTS

### ROTOR BLADES

25 ft  
300 in  
7.9 m

### LENGTH - BLADES ON

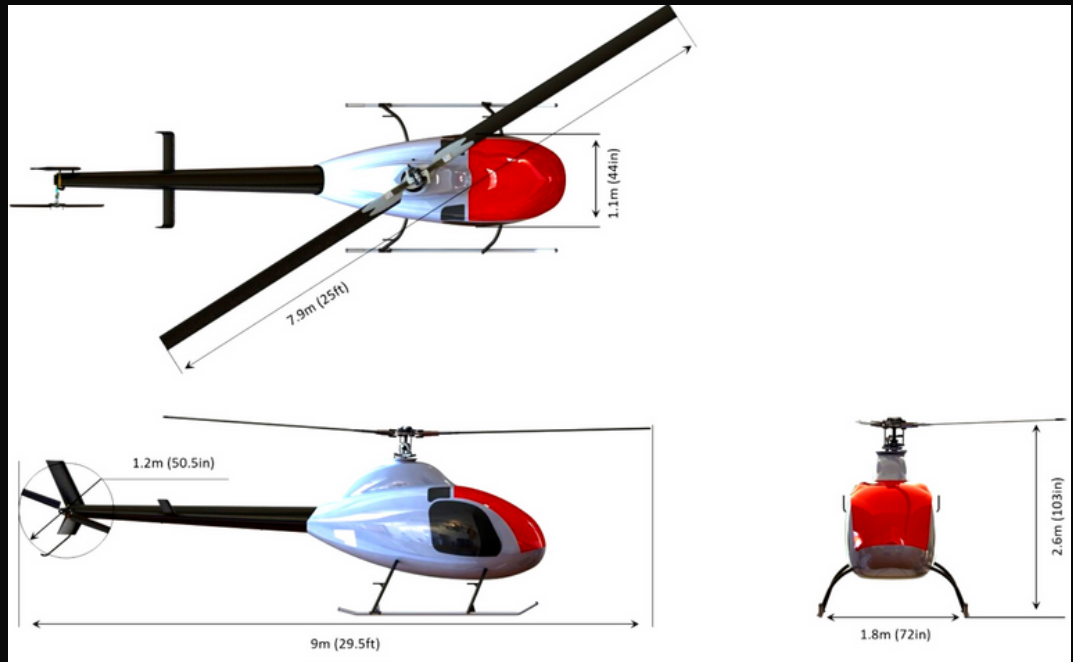
29.5 ft  
354 in  
9 m

### HEIGHT - BLADES ON

8.5 ft  
103 in  
2.6 m

### WIDTH - BLADES STRAIGHT

3.6 ft  
44 in  
1.1 m

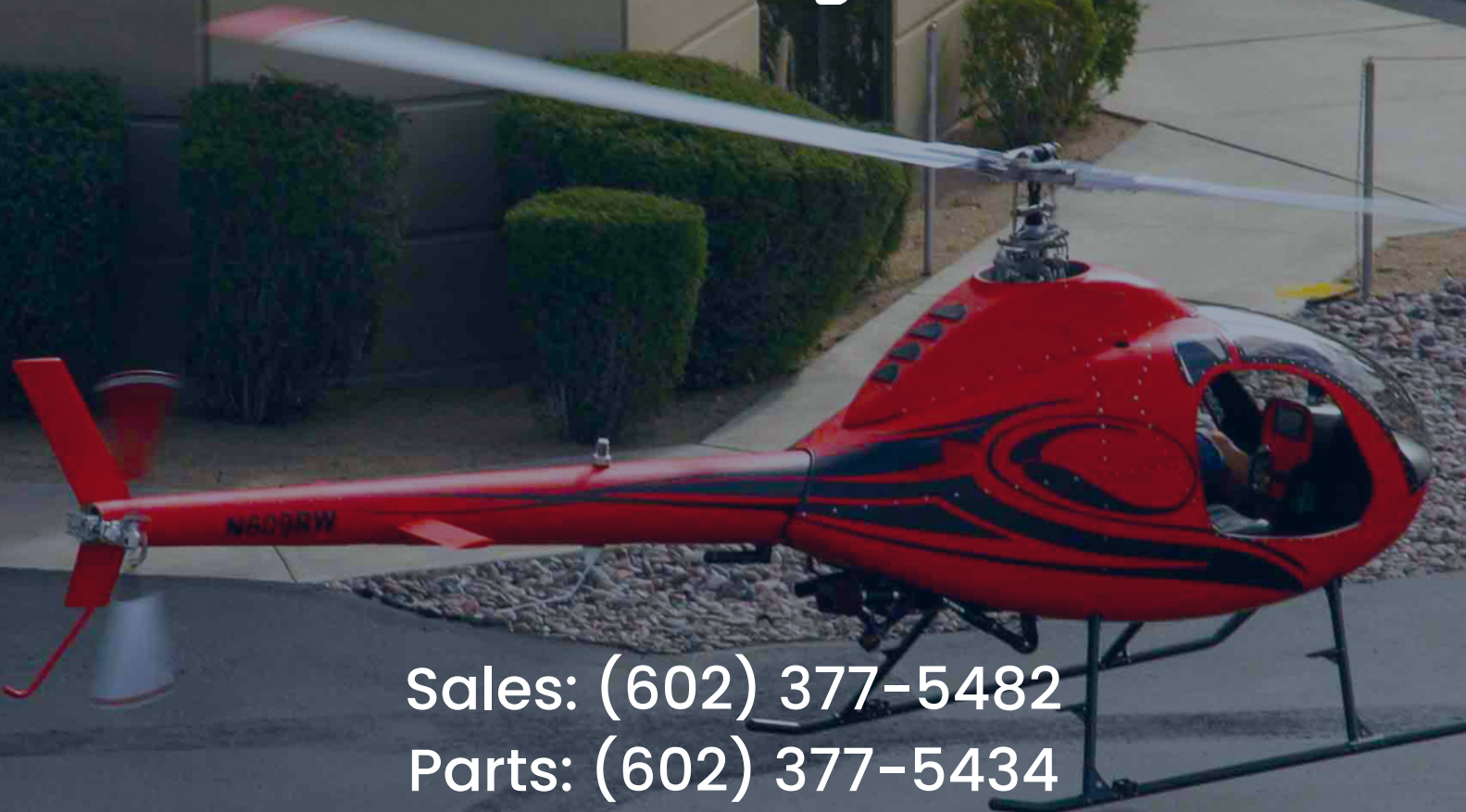


## A600 CRATE DIMENSIONS

PACKAGE NUMBER	CONTENTS DESCRIPTION	DIMENSIONS (Inches) PACKAGE TYPE	WEIGHT (Lbs) GROSS	MARKING	CLASS
1	TAILBOOM	145L x 20W x 23H	190	01/08	200
2	AIRFRAME	115L x 42W x 57H	595	02/08	200
3	FUSELAGE	46L x 41W x 84H	350	03/08	150
4	ROTORHUB	48L x 21W x 18H	120	04/08	150
5	PARTS CARDS	51L x 22W x 22H	145	05/08	200
6	PART CARDS & PARTS	51L x 28W x 42H	275	06/08	200
7	BLADES	156L x 11W x 9H	170	07/08	100
8	ENGINE	35L x 29W x 28H	300	08/08	150
<b>Total Weight</b>			<b>2,145</b>		

# ROTORX

Aircraft Manufacturing Co.



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