

Robinson R66 Turbine Performance Pad Pro™





The Flight Page

Here you can create flights, enter flight data and change the aircraft callsign. All data (performance and W&B) will be saved under the flight number. When you create a new flight all data from the active flight will be copied in the new flight. This makes the process very fast.

You can use the arrow buttons to switch between the flights. This function also enables to experiment with various conditions (temperature / altitude / loading) and allows to quickly setup "what if" scenarios.

Carrier 5:08 PM 100%

Flight 1 Registration N-GYRO1 Load Manifest Save Values 66 Robinson R66 Info Gyronimo® R66 TURBINE Performance Pad Pro

Create New Flight Delete this Flight **FLIGHTS** View Previous Flight View Next Flight

Flight Number 1 of 1 Registration N-GYRO1 Date of Flight 17-06-2013 Departure Time 16:41 Remarks none

Day Month Year

Departure Destination Flight Time Routing

KPHX KLAS 2 h 30 min E25, IGM

Pilot Co Pilot Pax Names of passengers on board

James N/A 0 Williams, Richter

Step 1
Create a new flight
Edit flight data on this page.
Click "Create New Flight" to copy the existing data into a new flight number.

Step 2
Edit Load Manifest
Basic Empty Weight, Loose Equipment, Arms and Moments etc.

Step 3
Send Load Manifest
Send Manifest via Email
All W&B and performance data will be sent to your email address.

click on a box to start



Send Load Manifest via Email

The complete Load Manifest can be sent via email. The email also shows all performance values and computations in a structured table view.

Carrier 5:11 PM 100% TURBINE

Cancel Load Manifest -N-GYRO1- (Robinson R66) -Flight 1- Send

To: [Redacted] TOW 2500 lbs

Subject: Load Manifest -N-GYRO1- (Robinson R66) -Flight 1-

LOAD MANIFEST
N-GYRO1 - Robinson R66 Turbine

FLIGHT ID	ISSUE DATE	DATE OF FLIGHT	TIME SCHEDULED
1	17-06-2013	17-06-2013	16:41
DEPARTURE	DESTINATION	FLIGHT TIME MIN	PAX
KPHX	KLAS	30	4
PILOT	CO PILOT	PAX NAMES	
James	N/A	Williams, Richter	

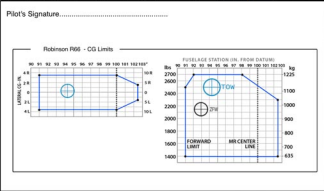
LOADING (ZFW)

No.	ITEM	WEIGHT	X	ARM	=	MOMENT	ARM LAT	=	MOMENT LAT
1	Basic Empty Weight	1290.0	X	109.000	=	140610	0.334109	=	431
2	Mission Equipment	0	X	0.0	=	0.0	0.0	=	0.0
3	Seat 1 Pilot	175							
4	Seat 1 Baggage	0							

Zero Fuel 2150 lbs
92.92

100 101 102 103"
10 R
1.8
0

Pilot's Signature.....





The Gyronimo Performance Pad Pro.

The Professional Flight Computer for the R66 Turbine.

The R66 Performance Pad is a ground breaking flight computer. All important Weight & Balance and Performance figures as found in the flight manual for the R66 Turbine will be calculated in just seconds.

We recommend the Pad for professional pilots, however, it is also a great tool for flight students who want to become familiar with the more complex performance calculations of turbine helicopters.



Available on the iPad
App Store





The Mass & Balance Page

The user interface of the Performance Pad Pro is designed similar to a modern glass cockpit. Informations are displayed graphically, warnings and announcements will be shown on the annunciator panel in red or orange color.

Set person and baggage weights in seconds using the convenient sliders or just click the seat symbols to load a predefined weight. Check the CG position using two graphical displays.

Pad
16:28
Not Charging

⚙️
Flight 1
Registration N-GYROI
▶
Load Manifest
Save Values
E68
Robinson R66 Info
GYRONIMO® R66 TURBINE

OAT	Pressure Alt	MGT	Vne	RoC	IGE max. Weight	OGE max. Weight	CG TOW	TOW
11°C	4500'	616°C	125 KIAS	1308/min	2700 lbs	2700 lbs	95.54"	2443 lbs

Seat 2 [170] lbs

Baggage 2 [0] lbs

Seat 3 [160] lbs

Baggage 3 [0] lbs

Seat 4 [0] lbs

External Load [0] lbs

Pilot [170] lbs

Baggage Pilot [0] lbs

Seat 5 [160] lbs

Baggage 5 [0] lbs

Cargo [0] lbs

Max. Endurance: 2 h 27 min
based on average fuel consumption

[493] lbs [100] %

Total Fuel Usable

100% 73.6 gal 493 lbs

Consumption [200] lbs/h

Flight Time [90] min

Reserve Time 58 min

FUSELAGE STATION (IN. FROM DATUM)

	Takeoff	Landing	Zero Fuel
Weight	2443 lbs	2143 lbs	1950 lbs
CG	95.54"	94.56"	93.78"

LATERAL CG-IN.

+0.18

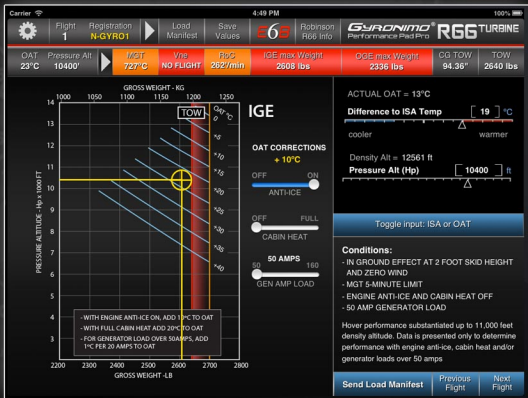
(C)2013 Claus Richter, Gyronimo LLC

Send Load Manifest
Previous Flight
Next Flight



The Annunciator Panel

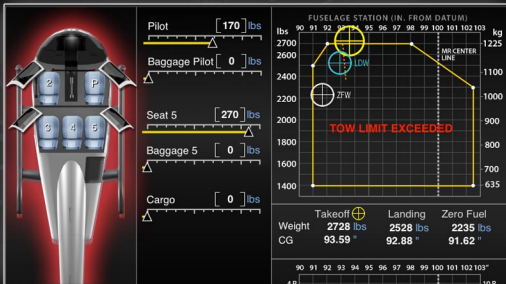
Below is an example for various warnings shown on the annunciator panel. If a value is exceeded the warning will be shown in red. If a value is about to be exceeded the warning will be shown in orange. You can specify the threshold of the orange warnings in percent.





CG and weight limit warnings

If the CG is outside limits or if the maximum takeoff weight is exceeded, text warnings will be shown and the center helicopter graphic will turn red.



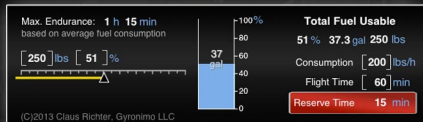
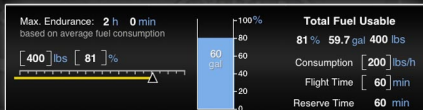


The Fuel Panel

Fuel can be entered as percent or weight in kg or lbs. The volume per tank (Liters/Gallons) will be displayed as well as the total amount of fuel on board. The amount of fuel needed for the flight is calculated based on the fuel flow graph or a specified average value.

Reserve Warning:

If the reserve time is below a specified value, the Reserve Time Warning will be displayed in red.





The Setup Page

On the Setup Page you can specify warnings for fuel reserve, performance values and rate of climb.

Also you can define the "Quick Load" weight. When you click on a seat symbol, this load will be allocated automatically.

The Pad allows to switch from kg to lbs units anytime, all values will be converted.

Carrier 4:54 PM 100%

Flight 1 Registration N-GYR01 Load Manifest Save Values E66 Robinson R66 info GYRONIMO® R66 TURBINE Performance Pad Pro

OAT 5°C	Pressure Alt 6500'	MGT 622°C	Vne 121 KIAS	RoC 1130'/min	IGE max Weight 2700 lbs	OGE max Weight 2700 lbs	CG TOW 94.27"	TOW 2215 lbs
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Robinson R66 Performance Pad

Version 1.0, May 2013
Author: Claus Richter, Gyronimo LLC
All Graphics Copyright: Claus Richter

Fuel Consumption lbs/h
= 29.9 US Gallons / hour

Warning Rate of Climb ft/min

Fuel Reserve Warning min

Threshold "Orange" Warnings %

Performance Warnings (Rate of Climb)

IGE / OGE Warnings


Quick Load Weight Preset

Seat and Baggage Buttons lbs

Cargo Buttons lbs

Weight/Mass Units
(change will reset all values)

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The Quick Load Function

To quickly load the helicopter, just click on a seat or cargo hold symbol. The specified Quick Load Value will be allocated to that particular seat or cargo hold. You can specify the quick load value on the setup page.

Quick Load Weight Preset

Seat and Baggage Buttons lbs

Cargo Buttons lbs

The diagram shows a top-down view of the helicopter's interior with weight distribution sliders for various components. A red circle highlights the Pilot seat area, which is linked to the 'Quick Load Weight Preset' settings shown above. The sliders are as follows:

Component	Weight Value
Seat 2	160 lbs
Baggage 2	0 lbs
Seat 3	160 lbs
Baggage 3	0 lbs
Seat 4	0 lbs
External Load	0 lbs
Pilot	160 lbs
Baggage Pilot	0 lbs
Seat 5	160 lbs
Baggage 5	0 lbs
Cargo	0 lbs



External Load Function

While entering an external load, a helicopter with a load symbol is shown in the center screen. The arm of the external load can be set up in the Load Manifest. When an external load is attached, a note will light up on the center screen.

