MaxJet
Jetting Software
www.maxjet.ca

MaxJet 1.30

Congratulation, you have just acquired a very useful tool. MaxJet 1.30 and MaxJet 1.30 for Palm is the latest version of software to help you take the guesswork out of jetting your RotaxMax FR125and maximizing it's performance.
This software has been developed over the years and is race proven by top drivers in Canada, the United States and around the world.

We encourage you to let us know of your comments and suggestions at feedback@hshpage.com

Disclosure

By use of this software and equipment associated to it, the user of the software holds the developers, distributors and all parties associated to this software harmless of any damages to equipment, property or persons associated to the use of this product and any equipment used in conjunction with this product.

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MaxJet for Windows installation

Run Setup and follow instructions. Once completed, go to Windows Start, select Programs and select MaxJet.

MaxJet Palm installation

Simply use the Palm Installation tool. For MaxJet to run, you must install MathLib.prc. MaxJet relies on this library to resolve its mathematic functions. You can install both at the same time in no particular order. MaxJet will not run if MathLib is not installed. You will find these two .PCR files on the CD in the Palm directory and in the MaxJet directory on your hard drive. On first start of the MaxJet 1.30 for Palm you will be prompted to register you software. To register, send both your CD Key and the palm serial number to register@hshpage.com. Allow 24 hours for us to process you request.

Registering your MaxJet software

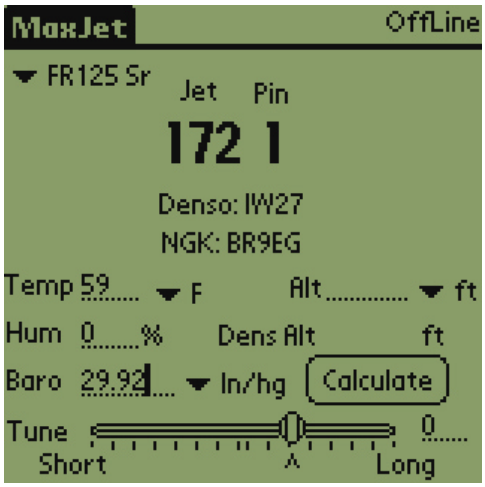
Your MaxJet software is copy protected and must be registered as soon as possible. We have given you 14 days or 20 uses (which ever comes first) this should give you plenty of time to register. To register, just press the "Register Now!" button, click on "Create Register Code" fill in the form and e-mail it to register@hshpage.com. Allow 24 hours for us to process you request. Make sure that the CD Key is entered correctly on the form as well as your e-mail address. This is vital. If these information are not entered **you will not** receive your unlock code. When you receive the code, do a select on the code, press the "Register Now!" button, click on "Enter Unlock Code" and paste it in the text box. Press ok.

MaxJet 1.30

The MaxJet 1.30 software is designed to help you maximize jetting for the RotaxMax FR125 and the RotaxMax Jr. in its stock configuration. Use of this software will not conflict with rules for operation in RMC, STARS and IKF races.
The software will work on standard PC's and Palm devices (Palm OS software v 3.5 and higher).
The software features the ability to obtain a Baseline jetting setting plus the ability to fine tune for various race conditions.

To properly use this software you will need to be able to obtain the following atmospheric Information : Temperature, Relative Humidity and Barometric Pressure.
The software will accommodate U.S. measurements as well as Metric.
For Barometric Pressure, the software uses in/hg and mb, this is because these pressure readings automatically compensate for altitude.
You will note that the one of the read outs is Density Altitude. This is helpful information to know what altitude the engine package feels it is operating at.
The device we recommend for the most accurate atmospheric data is the RaceJet Weather Pod Information on operation of this device in conjunction with the MaxJet software will be covered in this manual.

Palm Operation



Manual Palm Operation

Manual operation is if you wish to input atmospheric information by hand.
This is achieved by using the palm stylus and taping the blank line for information you wish to input. Use the area provided in the bottom right side of palm to write the numbers in.

To obtain your Baseline jet settings, complete the following:

1. Select motor using the drop down menu. (FR125 Rotax Max Sr. or FR125 Jr.)
2. Input temperature (You can select Fahrenheit or Celsius using the drop down menu)
3. Input Humidity
4. Input Barometric Pressure (You can select in/hg or mb using the drop down menu)
5. Verify the tune bar is set at the "0" point (over the ^ mark you can verify by numeric indication to the right of the slider bar reading 0)
5. Press the "Calculate" button to obtain proper jet, pin setting and spark plug

Automatic Palm Operation with RaceJet Weather Pod

The RaceJet Weather Pod is a device designed to give automatic and immediate atmospheric information for your MaxJet software.
The idea and intent of use of the RaceJet Weather Pod in conjunction with the MaxJet software is to have a system that is for all practical purpose "one touch"
We prefer the RaceJet Weather Pod and have written the interface to the MaxJet because this unit is affordable and its components are aerospace industrial grade to assure accuracy.
Because there are so many different palm devices that are available on the market today, we decided for ease of operation and manufacturing to dedicate this system to the Palm M100 and M105. These models are rugged and the most affordable of the Palm line of products.
For operation, verify that interface cable from the RaceJet Weather Pod is plugged into the palm device.

To obtain your Baseline jet settings, complete the following:

1. Turn switch on RaceJet Weather Pod to the "On" position.
2. Select motor using the drop down menu. (FR125 Rotax Max Sr. or FR125 Jr.)
3. Verify Temp and Barometer is set for US or Metric.
4. Verify Tune Slider Bar is set to "O"
5. Press the "Scroll" button on the palm device.
6. Proper jet, pin, plug and current atmospheric conditions will be displayed.

When you press the "Scroll" button you will notice that indication in the top right hand corner of the palm device will go from "OffLine" to "OnLine" for a moment. This means the software is getting the atmospheric information from the Race Jet POD.
To resample the atmospheric condition simply press the "Scroll" button of the palm device and note any changes in conditions, jetting, pin and plug.

IMPORTANT !!!!

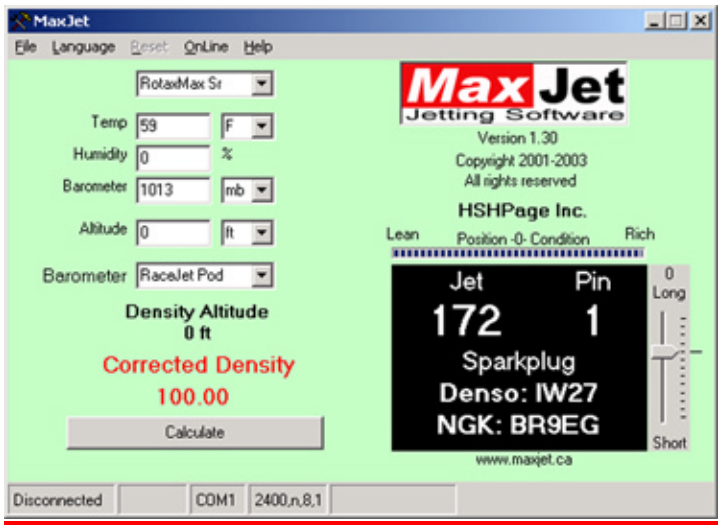
When gathering atmospheric data, make sure any device that you use is acclimated to the weather conditions. The temperature that these devices use for accurate jetting is ambient temperature, meaning do not take readings in direct sunlight. We suggest holding the device in the shade and allowing the device acclimate to the conditions, then take a reading.
Also take several readings to verify that the device is acclimated to the current conditions.
It is highly recommended that you do not subject any atmospheric device to water (i.e. rain)
It is recommended if possible to take the device to the race area to take atmospheric readings.
The reason for this is trees, bodies of water and a large gatherings of humans create humidity, thus if it possible to get readings as close as possible to the actual race area, they will be the most accurate.

Fine Tuning Palm Version

You will note two areas of fine-tuning in the MaxJet software.
The first is "Alt" meaning altitude. In/Hg and MB pressure reading automatically compensate for altitude however if you are taking readings away from the race surface (i.e. the pit area is a higher elevation than the track) you can automatically enter the difference to compensate.
Note that you can adjust via drop down menu between feet and meters.

The second fine-tuning tool is the "Tune Slider Bar". When put to a "0" setting, the result is a jetting that is the same as MaxJet version developed prior to the 1.30 version.
The "Tune Slider Bar" allows you to compensate for tracks that are longer or shorter and thus compensate for gearing changes. It is also useful to tune to the drivers style and chassis setup.
It is recommended to start from the "0" point and work forward or backward to fine-tune from this point. You can also run the Slider Bar back and forth to find a "bracket" area to work with in jetting. Because we cannot account for every condition (i.e. track setup, chassis setup and driver's style) we recommend being conservative to start with and exercise common sense when using this feature. Also you will find it useful to keep a race / practice log and note your setting for future reference.

PC Operation



Manual PC Operation

Manual operation is if you wish to input atmospheric information by hand.
This is achieved by using your mouse device and keyboard.

To obtain your Baseline jet settings, complete the following:

1. Select the language you wish to operate with (English or French)
2. Select motor using the drop down menu. (FR125 Rotax Max Sr. or FR125 Jr.)
2. Input temperature (You can select Fahrenheit or Celsius using the drop down menu)
6. Input Humidity
7. Input Barometric Pressure (You can select in/hg or mb or mm using the drop down menu)
5. Verify the tune bar is set at the “0” point (Verify the slider bar is set to the tick mark and the indication above the slider bar is “0”)
8. Press the “Calculate” button to obtain proper jet, pin setting and spark plug

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We prefer the RaceJet Weather Pod and have written the interface to the MaxJet because this unit is affordable and its components are aerospace industrial grade to assure accuracy.
On this version of PC MaxJet you can also select a Davis device as well.
Use the Barometer drop down menu to select the device. The RaceJet is selected by default.

To obtain your Baseline jet settings, complete the following:

1. Turn switch on RaceJet Weather Pod to the "On" position.
2. Select motor using the drop down menu. (FR125 Rotax Max Sr. or FR125 Jr.)
3. Verify Temp, Barometer, Altitude, and Barometer device are set for your preference. (for US operation, this will normally be Temp=F, Barometer=in/hg, Altitude=ft)
4. Verify Barometer device to be used (RaceJet or Davis)
5. Verify Tune Slider Bar is set to "O"
6. With mouse device, press "OnLine"
7. Proper jet, pin, plug and current atmospheric conditions will be displayed.

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It is important to note that when the slider bar is set to the "0" position and proper jetting, pin and plug are displayed, you will get an indication in the Position –0- Condition. This will tell you weather the current setting is Lean, Rich or somewhere in the middle.
When you move the slider bar to long or short outside of the "0" position, the Position –0- Condition indicator is no longer usable. Any indication on the Position –0- Condition outside of the "0" setting should not be used.