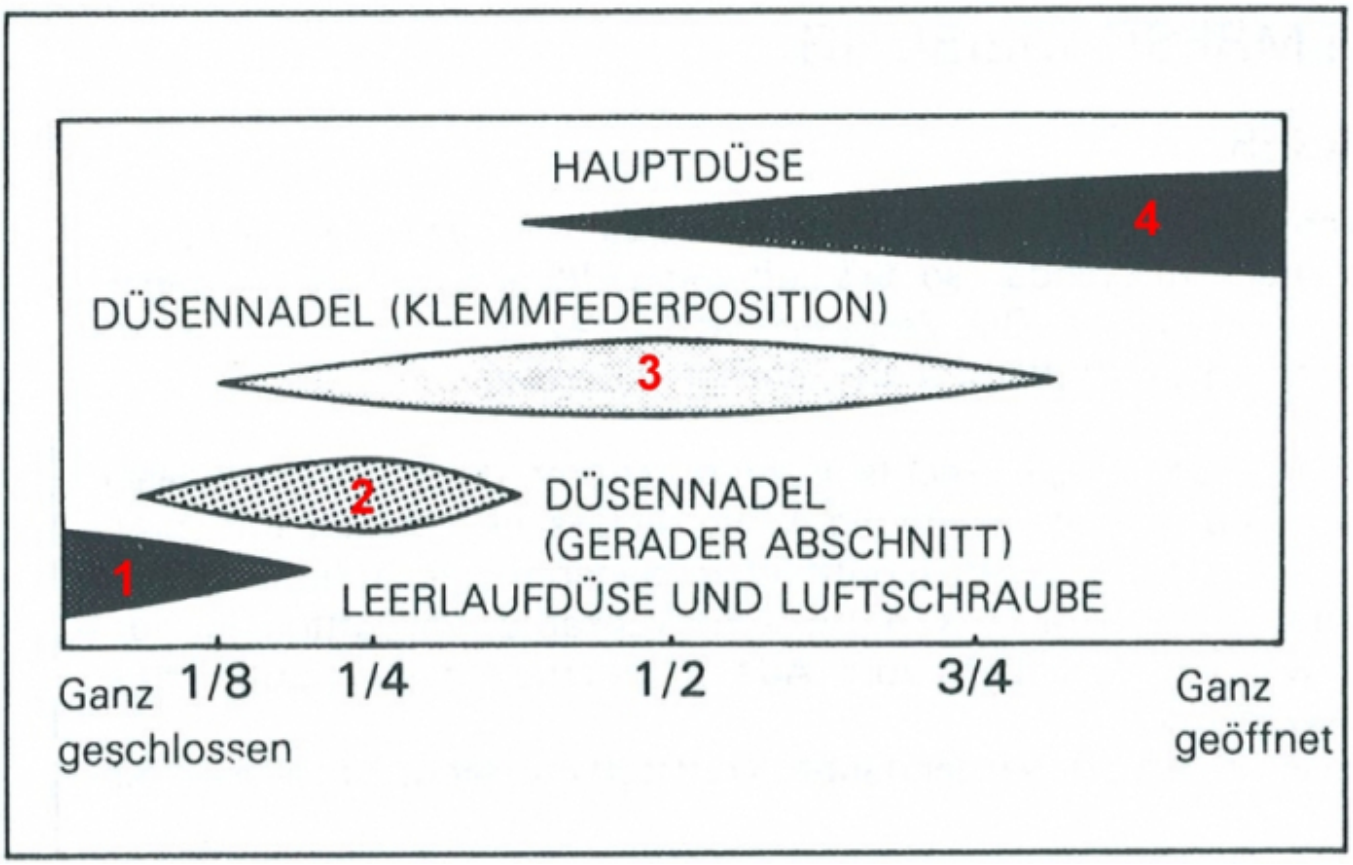
The interaction of the components on the carburetor

…. or which components influence the mixture preparation

…. I have two wonderful graphics on this.

The first is from the general maintenance manual for Honda motorcycles.
All other, model-specific manuals at Honda are based on this one.



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1. idle jet and idle screw
2. neddle - straight section
3. needle - circlip position
4. main jet

The second graphic is from the flat slide carburetors of the Kawasaki ZXR 750 RR (ZX 750 J/K - 1991)
This was a rare, single-seater special version, with 90KW.

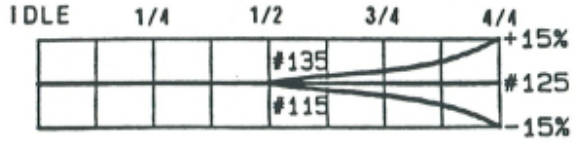
Since we had great difficulties with the carburetor tuning with this model at the time, I received this graphic by a Kawa technician.

The components listed in the list are not all available on the Bing, but the individual graphics are still relevant.
However, I think that the parameters of the needle jet are not quite correct, as the design of the Kawa carburetors [1)] is slightly different.
Unfortunately, I have found **no reference to the influence of the transition bores** on constant pressure carburetors.
I can only refer to the Article on the transition holes with the graphics there.

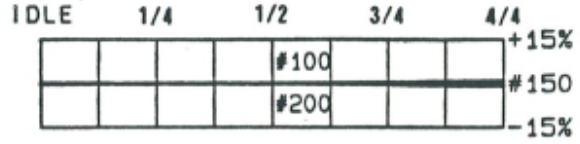
Verstellbereiche der einzelnen Düsensysteme, bzw. Einstellschrauben

Die Düsennadel, Hauptdüse und Leerlaufdüse regulieren den Kraftstoffluß. Die Luftkorrekturdüse, Leerlaufluftkorrekturdüse und Gemischregulierschraube regulieren den Luftfluß.

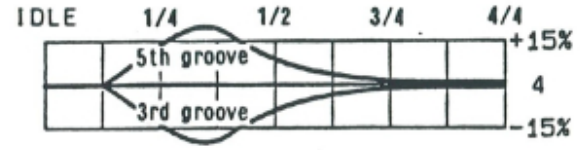
1) Hauptdüse



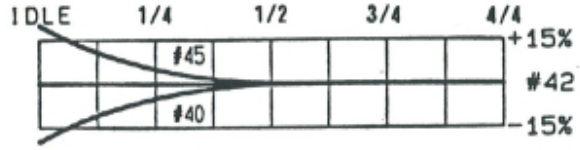
2) Luftkorrekturdüse



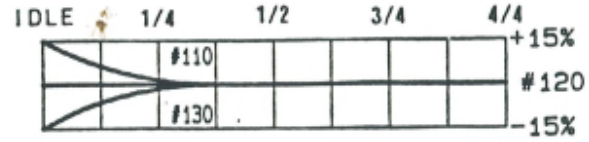
3) Nadelposition



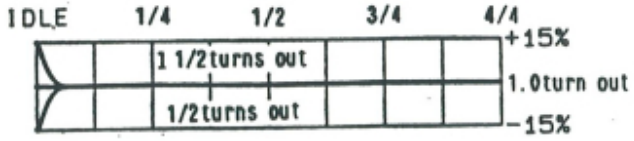
4) Leerlaufdüse



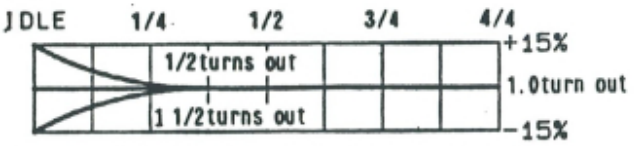
5) Leerlaufluftkorrekturdüse



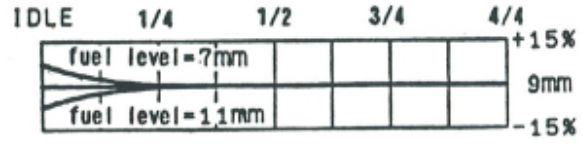
6) Gemischregulierschraube



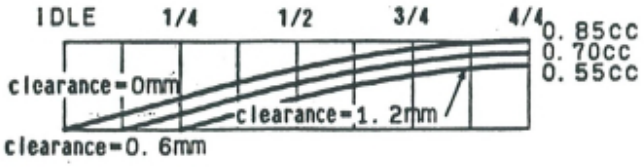
7) Luftschraube (Race Kit)



8) Kraftstoffniveau



9) Beschleunigerpumpenhub



1. main jet
2. main air correction jet
3. needle position
4. idle jet
5. idle air correction jet
6. mixture regulating screw
7. air screw - race kit
8. fuel level
9. accelerator pump stroke

... perhaps the illustrations will help you to understand the carburetors.

1)

flat slide carburetor with accelerator pump

From:
https://www.kleinjung.de/rotax/ - **Ralle's ROTAX FAQ**

Permanent link:
https://www.kleinjung.de/rotax/doku.php?id=en:carburetor_component_influence

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