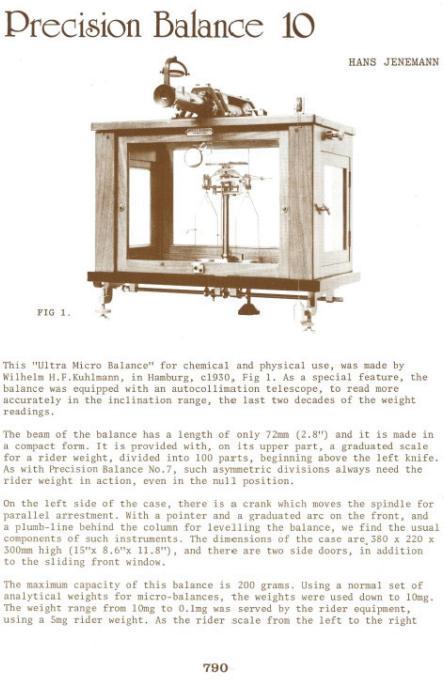

Precision Balance 10

HANS JENEMANN

FIG 1.

This "Ultra Micro Balance" for chemical and physical use, was made by Wilhelm H.F.Kuhlmann, in Hamburg, c1930, Fig 1. As a special feature, the balance was equipped with an autocollimation telescope, to read more accurately in the inclination range, the last two decades of the weight readings.

The beam of the balance has a length of only 72mm (2.8") and it is made in a compact form. It is provided with, on its upper part, a graduated scale for a rider weight, divided into 100 parts, beginning above the left knife. As with Precision Balance No.7, such asymmetric divisions always need the rider weight in action, even in the null position.

On the left side of the case, there is a crank which moves the spindle for parallel arrestment. With a pointer and a graduated arc on the front, and a plumb-line behind the column for levelling the balance, we find the usual components of such instruments. The dimensions of the case are 380 x 220 x 300mm high (15"x 8.6"x 11.8"), and there are two side doors, in addition to the sliding front window.

The maximum capacity of this balance is 200 grams. Using a normal set of analytical weights for micro-balances, the weights were used down to 10mg. The weight range from 10mg to 0.1mg was served by the rider equipment, using a 5mg rider weight. As the rider scale from the left to the right

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Abstract

Remarks