- The most precise measurement method Dies sets - Multiwire machines New or refurbished dies Recommended for Ø < 0.20 mm



The elongation measurement is the most reliable method to control a set of dies, especially for small diameters.

– Example for a wire Ø 0,025mm (25 μ m) :

Today, there is no device able to give with extreme accuracy the absolute value of a Ø25 microns wire.

Only a comparative measure allows to establish the difference between two 25,0 μ m and 25,1 μ m wires.

The most precise method to check that difference is the elongation control (closer to real drawing conditions).

For that purpose, let's insert a Ø25,1μm wire through a Ø25μm drawing die and draw 1000mm (1m) of this wire. A Ø25μm wire will stand out, but 1008,016 mm length, meaning 8mm longer.

These **8 mm, which represent the 0.1 μm difference between the wire before and after drawing,** are very easy to read on a graduated scale.

Calculation :

Elongation = (entering wire \emptyset^2 / die \emptyset^2) – 1 In the example : Elongation : (25,1² / 25²) – 1 = 0,008016 m,

meaning 8,016mm - Elongation 0,8 %









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