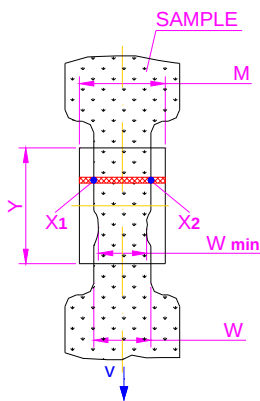


# Electro-Optical Measuring System Model 200XY

Model 200XY serves the purpose of measuring the necking on material samples (specimens) during high-speed tension tests. Over a sample height of **Y** the instrument contactlessly measures 20000 times per second the width of the specimen.

For recording, the following calibrated measuring signals are available at the outputs of the instrument:



Edge positions:  $X_1$  and  $X_2$   
Width of specimen:  $W = X_1 - X_2$   
Minimal width of specimen:  $W_{min}$

Sample height to be scanned: **Y**

Width **W** of the specimen is measured with a resolution 2 – 25  $\mu\text{m}$  (adjustment of low-pass filter). Per scan the smallest sample width (**W<sub>min</sub>**) is calculated, stored, and delivered as measuring value/scan).

The measuring range (**M**) of the instrument depends on the lens unit used. The lens unit can be exchanged. In case the standard version of Model 200XY is used, an LED illuminator has to be placed behind the specimen.

Through a window in a test chamber there is the possibility of measuring necking on samples in it; these samples can be hot up to 2500°C.

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