

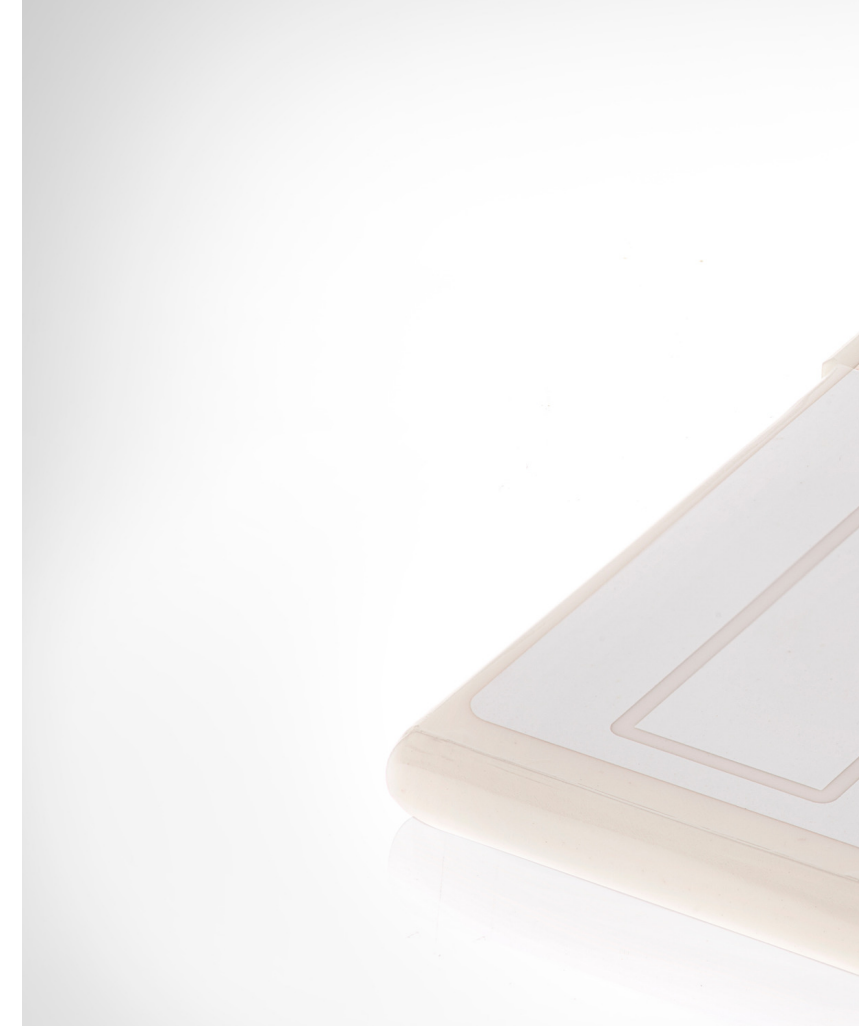
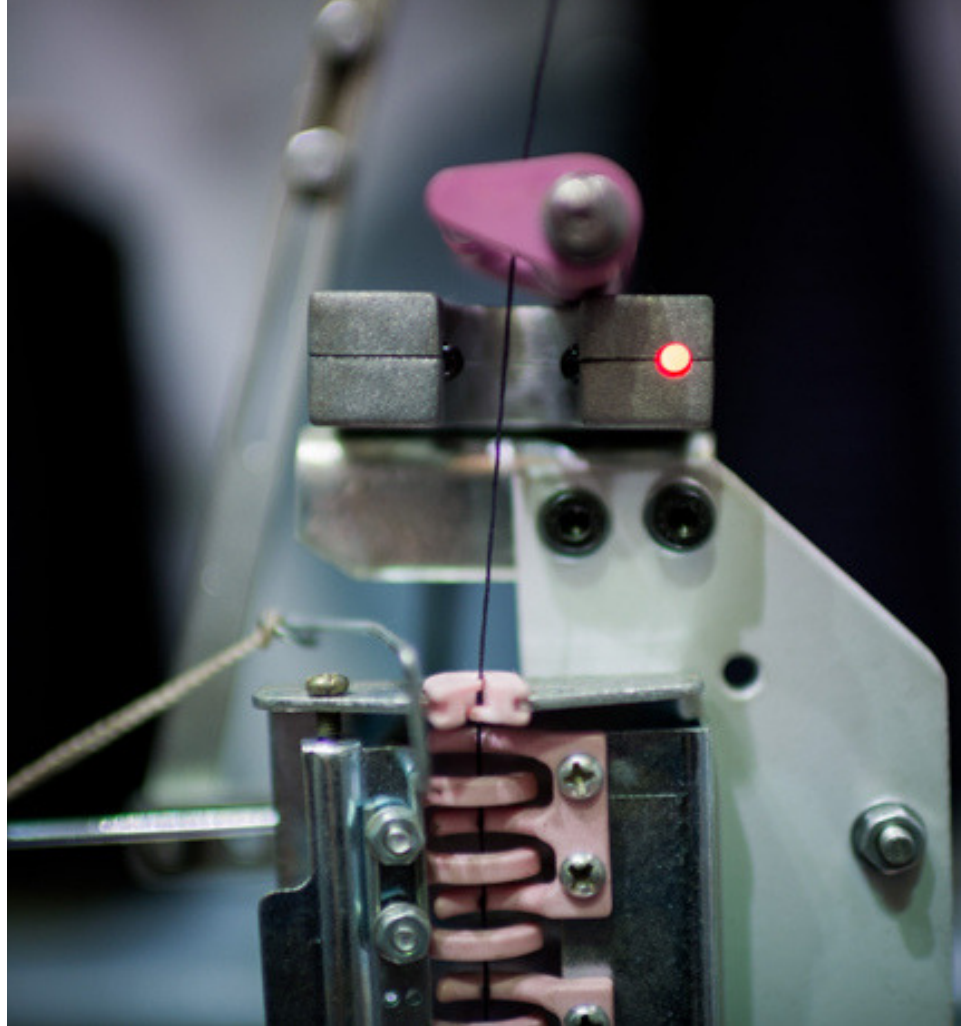
October  
2014

# Customer Story

Metz devices for yarn  
measurement in textile  
industry







Low cost,  
customised  
alternative for  
accurate thickness  
measurement

## SITUATION

In textile industry, the yarns are stretched for a specific length before being woven into cloth. Rough cloth needs more twist per inch. Thus it is necessary for the yarn to be of accurate thickness and minimum roughness . Failing to achieve this results in poor quality of finished products. Thus machines to measure such parameters had to be designed .

Our customer is an emerging leader in the field of quality testing, on-line monitoring and services for the textile industry worldwide by providing a complete range of solutions like fiber tester , yarn tester etc. The yarn testing machines have a [ceramic sensor plate](#) that [ensures the correct thickness and roughness of the yarn](#) before stretching. The conventional sensor plates were costly and incompatible with the existing machines.

## CHALLENGE

Optical sensors measure the parameters up to a great level of accuracy but involve a [huge initial investment](#) and with an annual turnover of about 80 crore, investing in this technology didn't look feasible .

We had the challenge of providing to the customer's need according to their situations. Hence sensors with a design compatible to the existing machines were to be developed while keeping [the cost for the customer as low as possible](#), which was a difficult task.

## SOLUTION

The metallized ceramic sensor plates measure the thickness and roughness up to a great level of accuracy The yarns are passed through the silver coated sensor plates , and a specific capacitance value is recorded . Fluctuations in this value signals the defected yarns (or the ones that don't have the desired thickness).

This product was [designed by our engineers specifically for this customer](#) ,customising for his requirements by considering the specifications of the existing machine .

## RESULTS

[Accurate thickness measurement](#) with comparatively [low investments](#).

[Customised design](#) specially made for the existing machine.



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