VICIVISION

MTL

500 850 1250 | X-Stream

Optical measuring machine for cylindrical elements

Big size and heavy duty measuring machines for shafts

MTL 500 850 1250 X-Stream

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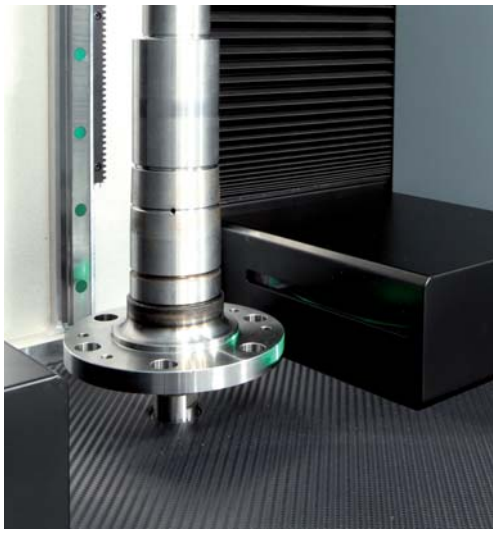
The MTL X-Stream has been specifically designed to measure large shafts. It is capable of measuring pieces up to 170mm in diameter (6.70") and is available in three versions based on length: 500mm (19.68") - 850mm (33.46") - 1250mm (49.21")

Equipped with a special piece rotation unit, the MTL X-Stream can operate on pieces weighing up to 60Kg, guaranteeing maximum accuracy and smooth movement.

The high definition sensor and powerful 64bit software consent the acquisition and processing of high resolution images.
In just one scan the entire piece can be measured and minute details such as chamfers, radii, etc. can be analyzed.

In a matter of seconds, the MTL X-Stream can also inspect drive shafts, camshafts, crankshafts, gear shafts and any other cylindrical elements, providing considerable time saving and a consequent rapid return on investment.



The MTL X-Stream has a self-standing structure which can be placed directly on the floor in order to bear the weight of the pieces loaded on the machine. To facilitate piece loading by means of external systems or cranes the MTL X-Stream has a wider front opening that helps loading / unloading procedures. During the loading and unloading phases, the measurement sensors reach a rest position, sheltered from front or lateral impact.

For further protection, each sensor has a metal sheet (bumper) which is separated from the optics protecting them from accidental impacts.

The machine protection is operated by photocells, which means the operator can use both hands to load the piece without having to disengage any mechanical devices.

The piece is blocked by tailstocks. To guarantee smooth movement and maximum accuracy, the upper mobile tailstock block runs on prismatic ball bearing guides.

The MTL X-Stream can be easily integrated into automatic load systems such as robots or other external automation devices.
This assists the operator and guarantees regularity.

The data collected can be used to validate production, issue measuring reports or even to compensate the tool wearing on the CNC machining centre. According to the type of CNC used, the tool wearing compensation can be manual or completely automatic. This drastically reduces downtime and consequently increases production by reducing discarded pieces.

Model	MTL 500 X-Stream	MTL 850 X-Stream	MTL 1250 X-Stream
Max meas. piece	500x170 mm	870x170 mm	1250x170 mm
Max loading piece	520x250 – 30kg*	870x250 – 60kg	1270x250 – 60 kg
Measurement accuracy on:			
- diameter	(2,5+D[mm]/100) µm	(2,5+D[mm]/100) µm	(2,5+D[mm]/100) µm
- length	(5+L[mm]/100) µm	(5+L[mm]/100) µm	(5+L[mm]/100) µm

*60Kg available as option

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