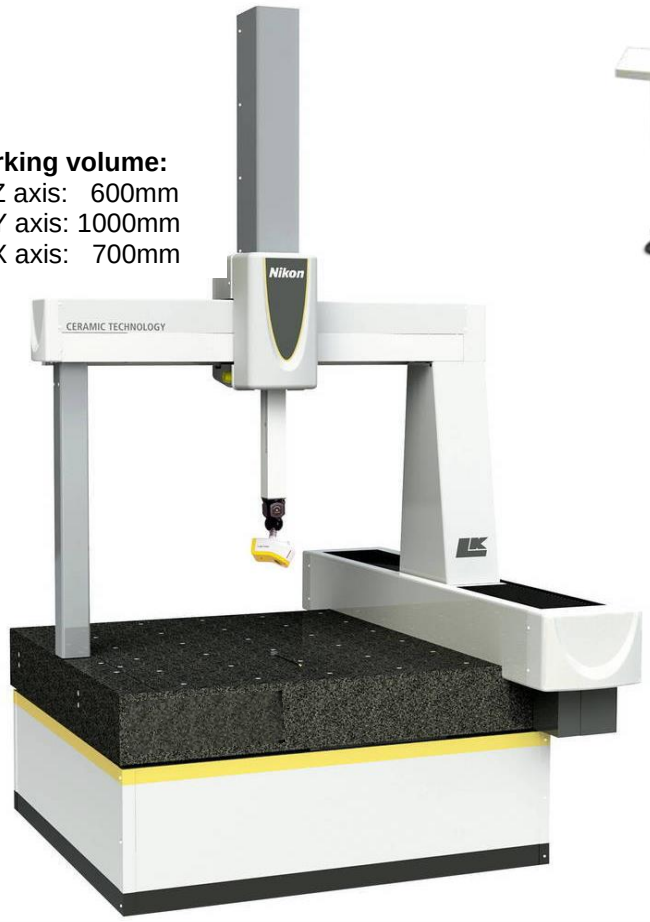
SHAPING THE FUTURE

Certified ISO9001-2015

Three-dimensional metrology on CMM with laser head

Working volume:
- Z axis: 600mm
- Y axis: 1000mm
- X axis: 700mm

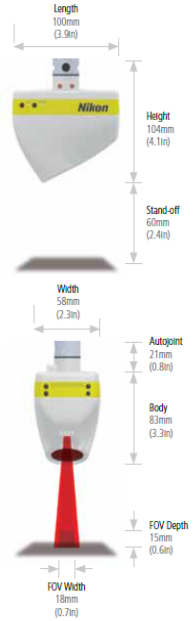


Laser head as a touch probe:
- Automatic tooling change
- Unique measuring environment
- Laser and standard analysis combined
- Unique measurement report

SPECIFICATIONS

Probing error (MPE_P) [1]	1.9µm (0.0001in)
Multi-stylus test (MPE_{AL}) [2]	3.9µm (0.00015in)
Resolution (point spacing)	22µm (0.00087in)
Data acquisition (approx.)	70,000 points/sec
Points per line (approx.)	900
Measuring temperature range	18-22°C (64.4-71.6°F)
Operating temperature range	10-40°C (50-104°F)
Warm-up time	0 (zero) seconds
Weight	370g (13oz)
Ingress Protection	IP30
Power	110/240VAC, 50/60Hz 5A
Enhanced Scanner Performance (ESP3)	√
Daylight filter	√
Probe head compatibility[3]	PH10M, PH10MQ, CW43, PHS
Laser type	Class 2 (660nm)

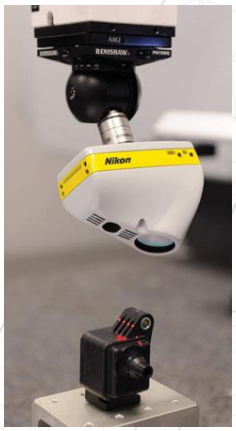
[1] Nikon Metrology test comparable to ENISO 10360-2
[2] Nikon Metrology test comparable to ENISO 10360-5, for CMM with accuracy of 2µm+L/350 or better
[3] For CMM controller and probe head compatibility see LC150x datasheet.



Laser head on CMM measuring:
- Accuracy comparable with touch probe.
- Not only single points but point clouds acquisition
- Detail level increase in the ana-lisys
- Confidence level increase in product conformity evaluation

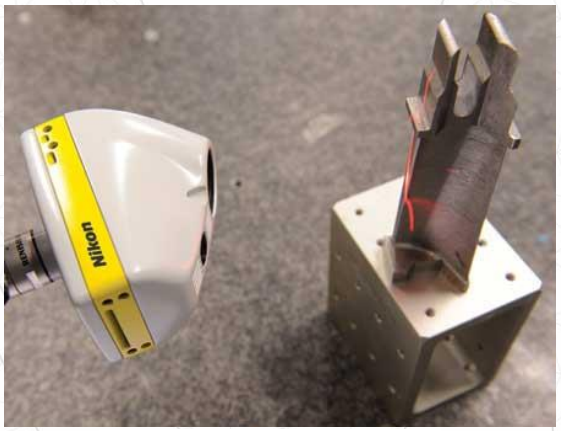
3D controls without limits:
- Castings and forged parts
- Precision machining parts
- Plastic parts
- Rubber parts
- Contactless and touch probe inspection
- 3D scanning, digitalization and reverse engineering with no compromise

Turbine blades



Complex geometry plastic

Medical implants
Complex free form geometry



High precision tooling

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SHAPING THE FUTURE

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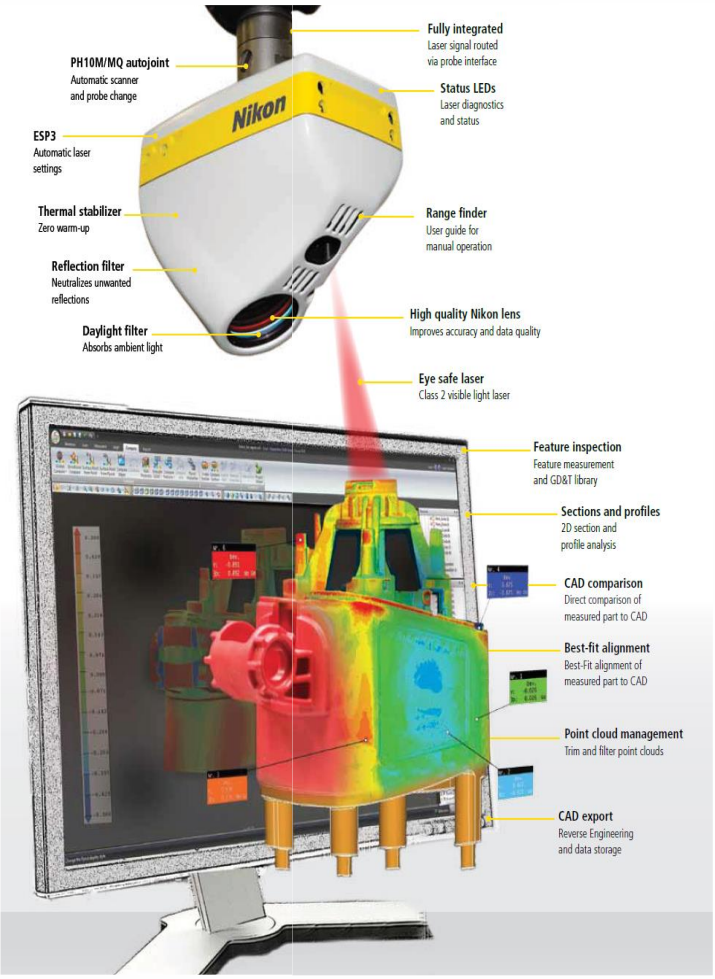
- Nowadays design is in 3D
- Nowadays production is in 3D
- Quality controls must be in 3D.

In Metrix 3D all this is reality

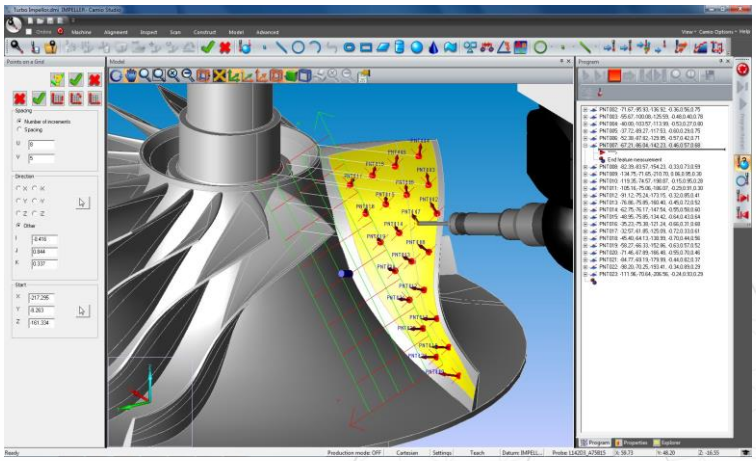
AND IT IS NOT ALL

- 3D controls are automated on CMM
- These are 3D controls on serial production



Measurements techniques available:

- Touch probing
- Precision continuous touch scanning
- Contactless laser scanning with integrated laser head



Innovation factors:

- Measurement techniques managed in a single environment
- High information quantity available in parts analysis
- Every type of material can be checked in details
- Controls and reverse engineering can be performed with no compromise

Complete reports with:

- 3D color mapping
- GD&T analysis
- Tables with tolerances evaluation
- Cross section analysis
- Wall thickness analysis

The amount of data acquired can be used for REVERSE ENGINEERING

- Defining modifications, wear and tear and deformations
- Reproducing complex shape objects
- Reproducing soft and flexible objects
- Handwork preservation
- Developing tool paths
- FEM analysis support
- Prototypes Construction

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