



# DO YOU PRODUCE TURNED PARTS?

## HERE IS YOUR **PRIMA VICIVISION**

The optical measuring machine  
for all turneries.

### **What is the best way to measure turned parts?**

By using a machine that clamps the part  
just like a lathe would: with centers and  
a chuck.

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### **Where can I measure my parts?**

Right next to the lathe,  
where it offers an immediate benefit.

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### **Do I need specialized personnel?**

Thousands of turneries are already using it in  
complete autonomy. We guide you until you  
obtain the end result.

# WHAT CAN PRIMA DO FOR YOU?

## REDUCES WASTE

lowering costs  
and environmental impact.

## GIVES OBJECTIVE MEASURES

by eliminating human error  
and avoiding disruptions.

## OBTAINS SWIFT RESULTS

to save time.

## STORES DIGITAL DATA

for the production to use  
to keep the process in check.

## DETECTABLE MEASURES

### Static measures

- diameter
- length
- angle
- radius
- chamfer

### Dynamic measures

- coaxiality
- runout
- circularity
- cylindricity
- taper

### Threads

- nominal diameter
- pitch diameter
- core diameter
- crests angle
- pitch
- roll dimension

### Nut

- diameter
- asymmetry
- timing

### Profile measurements (optional)

- DXF comparison
- DXF export





# WHY CHOOSING PRIMA?

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## TO ALLOW YOU TO WORK MORE COMFORTABLY

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- Loading point close to the operator: lowers the effort on the shoulders.
- No door to open or close: use both hands to load.
- Fixed part and moving optics: always precise even with heavy parts.

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## TO CREATE YOU SPARE TIME

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- Learning time reduced by 30% with Vivian programming assistant.
- New personnel to train? Learn whenever and wherever you want with the E-learning platform.
- Complex programs? We are here to help you with the online support.

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## TO PROVIDE YOU WITH A COMPLETE SOLUTION

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- See the real image, without filters, as intuitive as on a profile projector.
- Program from your office with the included off-line software.
- From the simplest measures to threads and form errors: all in one solution.



# PRIMA RANGE

PRIMA 306



PRIMA 309



PRIMA 314



PRIMA 606



PRIMA 609



PRIMA 614



## WHICH PRIMA TO CHOOSE?

PRIMA MODEL	Measuring field	Max. loadable sizes	Accuracy <sup>(1)</sup> Ø - L	Repeatability <sup>(2)</sup> Ø - L	Size L x D x H mm	Power supply		
						Voltage	Frequency	Nominal current
306	300 x 60 mm	315 x 120 mm 10 Kg	1,5+D[(mm)/200] µm 3,5+L[(mm)/200] µm	0,4 µm / 2 µm	595 x 780 x 950 mm	230 V	50/60 Hz	1,73 A
309	300 x 90 mm	315 x 120 mm 30 Kg	1,5+D[(mm)/200] µm 3,5+L[(mm)/200] µm	0,4 µm / 2 µm	595 x 780 x 950 mm	230 V	50/60 Hz	1,73 A
314	300 x 140 mm	315 x 240 mm 30 Kg	1,5+D[(mm)/200] µm 3,5+L[(mm)/200] µm	0,4 µm / 2 µm	920 x 1030 x 1800 mm	230 V	50/60 Hz	1,73 A
606	600 x 60 mm	625 x 120 mm 30 Kg	1,5+D[(mm)/200] µm 3,5+L[(mm)/200] µm	0,4 µm / 2 µm	595 x 780 x 1315 mm	230 V	50/60 Hz	1,73 A
609	600 x 90 mm	625 x 120 mm 30 Kg	1,5+D[(mm)/200] µm 3,5+L[(mm)/200] µm	0,4 µm / 2 µm	595 x 780 x 1315 mm	230 V	50/60 Hz	1,73 A
614	600 x 140 mm	625 x 240 mm 30 Kg	1,5+D[(mm)/200] µm 3,5+L[(mm)/200] µm	0,4 µm / 2 µm	920 x 1030 x 2000 mm	230 V	50/60 Hz	1,73 A

(1): Maximum permissible error according to EN ISO 10360-7 specifically applied to shafts optical measuring machines, relating to artifacts certified by EN ISO 17025 accredited laboratory (plus uncertainty of calibration masters U(d): 0.5 µm and U(l): 1 µm), steel made, ground surfaces and standard shape. Environment condition 20+/-0.5°C, max gradient 0.5 K/h. Uncertainty estimated considering a coverage range K=2 corresponding to a confidence level of about 95%.

(2): Repeatability calculated over 10 repetitions on ground part surfaces.

## VICIVISION measurement system



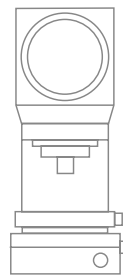
Measurement takes from 30 to 60 seconds.  
No more human error.  
Automatic cycle by pressing a button.  
Automatic data collection.



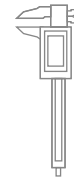
## Traditional measurement system



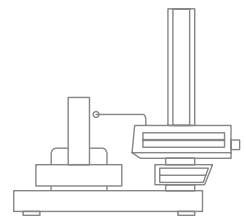
Measurement takes from 10 to 30 minutes.  
Data is conditioned by human interference.  
Difficult to use.  
Requires data collection.



Projector



Micrometer



Roundness gauge