

# SURFACE FINISH TESTER CV-R190™

*Simple to operate, high quality universal surface finish tester*

- Simple but high quality universal roughness tester with excellent price/quality rating
- Tester for use in laboratory or production environment
- Multiple styli available;  
standard delivery with long and short stylus
- Additional roughness parameters available on request
- Conforms to international standards ISO, DIN, ASME, JIS



## Technical specifications

Measuring System	Skidless method using inductive pick-up with interchangeable stylus
Measurement parameter	Ra; Rz; Rt; Rp; Rv; Rq; RSm; RmaxD; Material ratio curve
Measurable roughness range	Ra 0.01~10um
Cut off (L)	0.08mm; 0.25mm; 0.8mm; 2.5mm
Evaluation length (LN)	1L; 2L; 3L; 4L; 5L
<b>Filter</b>	
Measuring length	Horizontal 60mm (vertical 0,6mm / 600um)
Resolution	0,001um
Indication error	Not greater than 6% ±0,004um
Tracing speed	0,5mm/sec
Stylus	R= 2um
Stylus force	0.7mN
Stylus 1 (standard)	For roughness test on plane and round surfaces and in bores from 10mm diameter, max bore depth= 18mm
Stylus 2	For roughness test on plane surfaces, and in bores from 4mm diameter, max. bore depth= 15mm
<b>Worktable</b>	
Rotation range	360°C
Inclination range	±10°C
X - Y range	15mm
Unit height:	115mm
<b>Tracer unit</b>	
Tracer height from granite surface	Min:100mm - max:380mm
Inclination	±10°C
<b>Dimensions</b>	
Granite base	630mm x 400mm x 100mm
Column height	500mm
Control box	360mm x 100mm x 80mm
<b>Power supply</b>	220V 50Hz

## Standard delivery

- Main unit
- Tracer unit including 2 styli
- Granite base including column
- Universal worktable
- Control box and drive box
- Standard roughness plate
- V-block large  
(90mm x 60mm x 40mm 45°)  
from 4mm - 60mm
- V-block small  
(40mm x 30mm x 20mm 45°)  
from 2mm - 20mm incl. magnetic surface
- PCI i/o controller including software and wires
- CV Instruments certificate
- Installation & user manual

## Optional accessories

- Various styli for different applications
- Additional roughness parameters

## Optional

- Pentium 4 english workstation with hardware and software pre installed