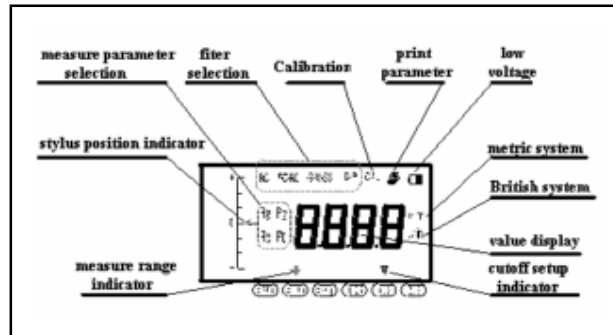


Surface Roughness Tester TR210



- Extremely easy operation!
- 4 different roughness parameters
- Optional pickup for groove, bores and holes.
- Data output RS232 to printer TA220S or PC
- Li-ion rechargeable Battery
- Standard conform to ISO



Technical specifications

Parameters	Ra, Rz, Ry, Rq,
Assessed profiles	Roughness profile (R)
Measuring system	Metric, imperial
Display resolution	0.001 μ m/ 0.04 μ inch
Display	LCD 128 x 64 dot-matrix, with backlight
Dimensions of LCD	50 x 30mm screen
Display features	Pickup stylus position indicator
	Direct display of parameters
	Direct printing
	Auto-off after 5 minutes with auto-store
	Calibration through software
Data output	RS232; direct to printer TA220S or PC
Measuring Range	Ra: 0.005~16 μ m
	Rz: 0.02-160 μ m
Cutoff length	0.25mm / 0.8mm / 2.5mm
Tracing length	1~5 cut-off (selectable)
Digital filter	RC, PC-RC, GAUSS, D-P
Pickup	Standard model TS100, inductive, Diamond tip radius 5 μ
Bores from diameter	6.0mm, depth 15mm (TS100)
Power	Li-ion battery rechargeable
Charger	220V / 110V, 50Hz, 2.5 hours (charging time)
Working temperature	5-40 $^{\circ}$ C
Relative humidity	<80%
Storing temperature	-25 $^{\circ}$ C -60 $^{\circ}$ C
Vertilation	Grade 3
Dimensions	140mm \times 52mm \times 48mm
Weight	440g

Standard delivery

- Main unit
- Protection nose
- Standard Pickup TS100
- Specimen Ra
- Steel support
- Charger
- Screwdriver
- Instruction manual
- TIME certificate
- Warranty card
- Carrying case

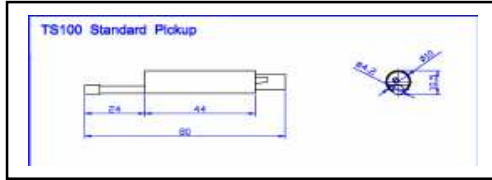
Optional accessories

- Pickup TS110, TS120, TS130 and TS131
- Measuring platform TA610/ TA620/TA630 /TA631
- Printer TA220S
- Steel adapter (8mm) for universal stand
- Steel adapter for connection to platform TA610 / TA620 / TA630
- Extension rod
- Interface cable



Optional Accessories for TR200/210/220

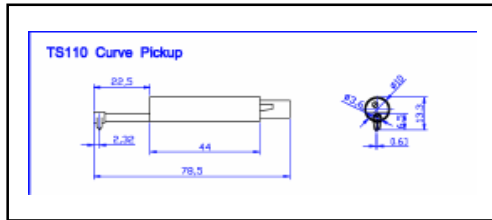
Pickup



TS100

Standard pickup

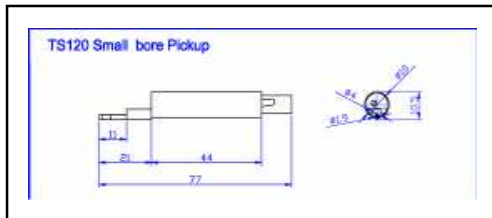
With skid for roughness tests on plane surface, shafts and in bores from 5mm diameter. Maximum bore depth 22mm.



TS110

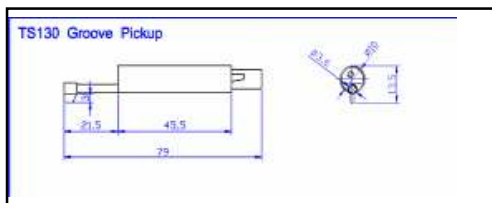
Pickup with side skid for roughness tests on convex and concave surfaces. Minimum bore diameter 8mm, maximum bore depth 20mm.

To be used with TA610 / TA620



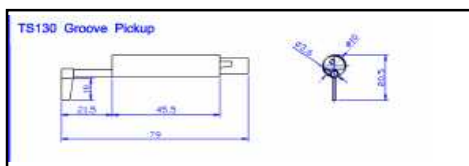
TS120

Pickup with mini-skid for roughness tests for in bores from 2mm. Maximum bore depth 9mm.



TS130

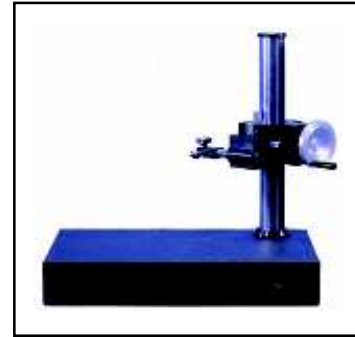
Measure surface roughness of deep groove or step below 3mm, other function is the same to TS100
To be used with TA610 / TA620



TS131

Measure surface roughness of deep groove or step below 10mm, other function is the same to TS100
To be used with TA610 / TA620

Platform



TA610 Measuring Platform

Specifications:

Surface Dimension: 400 x 250 mm

X-axial range: 28 mm

Y-axial range: 270 mm

Z-axial range: 40 mm

Vertical rotate range: $\leq 90^\circ$

Level rotate range: $\leq \pm 25^\circ$

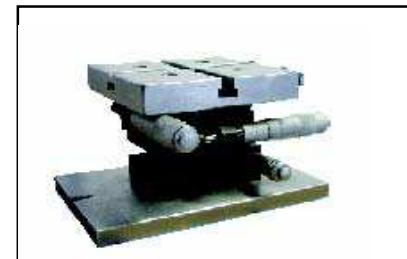


TA620 Measuring Platform

Specifications:

Surface Dimension: 400 x 250 mm

Y-axial range: 300 mm



TA630 / TA631 Micro Measuring Support

Specifications:

X-axial range: 12.5mm

Y-axial range: 12.5mm

Z-axial range: 40mm

Level rotate range: 360°

Level: $0 \sim 5^\circ$ (only for TA631)

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