



KOSAKA CALIBRATION LAB

CALIBRATION | INSPECTION | SALES | SERVICES | TRAINING

www.kosakacalibration.com

NABL Accredited Lab ISO/IEC 17025 Certified



OUR PRODUCTS

- VIDEO MEASURING SYSTEM
- SURFACE ROUGHNESS TESTING EQUIPMENTS
- CONTOUR MEASURING INSTRUMENTS
- ROUNDNESS & CYLINDRCITY
- BOROSCOPE

KOSAKA SE 800 SERIES

Surface Roughness Measuring Instrument

- ◆ Parameter : 80 parameter (JIS, ANSI, ISO, DIN)
- ◆ Capacity : Skidless measurement waviness measurement
Recalculation of parameters Parabola
measurement Partial Profile editing analysis
Statistical profile viewing
- ◆ Traverse / Return speed : Adjustable
- ◆ Straightness accuracy : 0.2 micron / 100m
- ◆ Cut off : 0.08, 0.25, 0.8, 2, 5, 8 Arbitrary length
selectable
- ◆ Measuring Range : 600 micron
- ◆ Printer : Built in printer possible to couple with PC
- ◆ Resolution : 0.5 Nano meter
- ◆ Measuring force : 0.75mN
- ◆ Stylus tip radius : 2 micron



KOSAKA EF 800 SERIES

Contour Measuring System

- ♦ Accuracy : Z : $\pm 0.25\%$
X : $(1+0.02l)\text{mm}$
- ♦ Resolution : 0.1 micron Both axis
- ♦ Traverse range : X - 100 mm
Z - 50 mm
- ♦ Measuring range : 0.3 mN (adjustable)
- ♦ Auxiliary function : Automatic measuring
Macro Programming
Vibrator Overload Stop
- ♦ Analysis : Master comparison Gothic arc analysis
Merge analysis



KOSAKA DSF SERIES

Roughness and Contour Measuring Instrument

- ◆ High accuracy and wide range
- ◆ Both surface & contour measurement in single pickup
- ◆ Constant resolution of $0.0075\mu\text{m}$
- ◆ Over 5 mm of measurement range
- ◆ At any magnification resolution is $0.0075\mu\text{m}$
- ◆ Tip radius $2\mu\text{m}$, traces micro-figure
- ◆ Roughness profile



KOSAKA EC1500H

Roundness and Cylindricity Testing Instrument

- ◆ Rotary Table : Unique Porous Static Air Bearing System
- ◆ Rotational accuracy : 0.02+0.0004H Microns
- ◆ Measuring Range : 1800 Microns
- ◆ Pick-Up : Multi Position Type
- ◆ Loading Capacity : 25 Kgs
- ◆ Tilting and Centering : Manual
- ◆ Table Size : 160 mm
- ◆ Tilting/Centering Range : $\pm 2\text{mm}/\pm 1^\circ$
- ◆ Capacity : Roundness, Cylindricity and Straightness



KOSAKA EC1850H

Roundness and Cylindricity Testing Instrument

- ♦ Rotary table : Unique porous Static Air Bearing System
- ♦ Rotational accuracy : 0.02+0.00035H Microns
- ♦ Measuring Range : 1800 Microns
- ♦ Pick-up : Multi Position Type
- ♦ Loading capacity : 25 Kgs
- ♦ Tilting & Centering : Automatic
- ♦ Table Size : 230 mm
- ♦ Tilting / Centering Range : $\pm 5\text{mm}/\pm 1^\circ$
- ♦ Capacity : Roundness, Cylindricity and Straightness



KOSAKA EC2500H

Roundness and Cylindricity Testing Instrument

- ◆ Rotary table : Unique porous static air bearing system
- ◆ Rotational accuracy : $\pm (0.02 + 0.0003H)$ microns
- ◆ Measuring Range : 1800 microns
- ◆ Pick-up : Multi position type
- ◆ Loading capacity : 60 kg
- ◆ Tilting & Centering : Automatic
- ◆ Table Size : 260 mm
- ◆ Tilting / Centering Range : $\pm 5 \text{ mm} \pm 1.2^\circ$
- ◆ Additional feature : Rotary surface finish check option
- ◆ Capacity : Roundness, Cylindricity, Straightness, Flatness, Spiral Cylindricity, Power Histogram, Form Analysis in the Profile, Etc.,



KOSAKA EC5200H

Heavy Duty Feeler Type

- ◆ Rotary Pickup : Unique Porous Static Air Bearing System
- ◆ Rotational accuracy : 0.05 microns
- ◆ Loading capacity : 200 kg
- ◆ Tilting & Centering : Automatic
- ◆ Table Size : 600 x 460 mm
- ◆ Tilting / Centering Range : ± 6 mm / 340, ± 60 mm
- ◆ Additional feature : Rotary surface finish check option
- ◆ Capacity : Cylinder Bore, Crank Bore, Crank Shaft, Cylinder Head, Cam Hole, Stem Hole, Valve Hole / Seat
- ◆ Additional Features : Cam Shaft, Chattering, Cam & Crank Shaft Straightness

KOSAKA ROUNDNESS & CYLINDRICITY ROTARY PICKUP TYPE MEASURING INSTRUMENT FOR CYLINDER BLOCK MEASUREMENT



**Automatic X axis drive with pre-set positioning allows multiple bores
such as engine blocks to be measured automatically**

TOUGH BODY & SPEEDY SURFACE ROUGHNESS MEASURING INSTRUMENT

MODEL : K+

Feature (K+)

- ◆ The world's first model equipped with bluetooth communication function.
- ◆ Various measurement postures are possible on metal surfaces
- ◆ Repeatability 220nm (* Measure Ra 3 μ m)
- ◆ Data output via mini - USB
- ◆ 2.4 inch color LCD



MODEL : SMART SURF

Feature (K+)

- ◆ AN ultra-fine pick-up that specializes in small hole measurement. Minimum diameter 6 x depth 61 mm
- ◆ 50 mm vertical adjustment
- ◆ Right angle measurement with simple operation
- ◆ Also supports inner diameter upper surface measurement
- ◆ Repeatability 65~165nm (*Measure Ra 3 μ m)
- ◆ Connect to Met 3.0 via USB (*option)



| | K+ | Smart Surf |
|--|--|--|
| Detection Method | Piezo | Differential Transformer |
| Stylus | 5 μm 90° | 2/5/10 μm 90° |
| Measuring Force | 2.00 mN, Skid | 1.50-3.00mN (or skidless) |
| Measuring Range | 200 μm | 400/100/10 μm |
| Vertical Resolution | 10.0 nm | 50.0/10.0/5.0 nm |
| Noise Floor | 70 nm | 150/100/50 nm |
| Repeatability (*Measure Ra 3 μm) | 220 nm | 65 ~ 165 nm |
| Drive Length | 5.0 mm | 25.5 mm |
| Measuring Speed | 2.0 mm/s | 1.0 mm/s |
| Cutoff | 0.8 mm (Only gauss) | 0.25/0.8/2.5 mm |
| Parameter | Ra, Rz, Rp, Rv, etc. Pa, Pz, Pp, Pv, etc. | Ra, Rz, Rp, Rv, etc. Pa, Pz, Pp, Pv, etc. |
| Data Output | Up to 5 resulta per page mini USB | Up to 7 resulta per page + graph USB |

ARCS Video Measuring Machine

Technology Features of KIM Series

- ◆ Video system : High resolution & High Accuracy CCD
- ◆ Magnification : 0.7 x ~ 4.5 x (28x~180x) Zoom lens
(Optional 0.5xlens 14x ~ 90x) (Optional 2x lens 56x ~ 360x)
- ◆ Illumination : Adjustable surface and contour illumination
(High Brightness LED)
- ◆ Linear scale : 0.001mm on X, Y, Z - axis (Z-axis is optional)
- ◆ Length Accuracy : $\pm (3 + L / 200) \mu m$
- ◆ Repeatability : 0.002 mm
- ◆ Connection :
Mode A, Digital Readout : RS232 output / capable to link with a printer (Standard)
Mode B, USB Output + Metrology software (SI-101 or SI-102)
- ◆ Sighting device : cross - hair generator
- ◆ Base : Precision granite table
- ◆ Power supply : AC110 / 220 V, 50/60 Hz
- ◆ Optional softwares : SI-101, SI-102



Mechanical System:

- ▶ Precision Granite Base
- ▶ Aluminum Working Table
- ▶ NB Guide Ways-Japan Made
- ▶ Screw Friction Drive: German Made

| Model No. | KIM-2010U | KIM-3020U | KIM-4530U |
|--------------------------|-----------------|-----------------|------------------|
| Travel Size (X. Y. Z) | 200x 100 x200mm | 300x 200 x200mm | 450x 300 x200mm |
| Stage Size (mm) | 355x 255 | 505x 355 | 705x 505 |
| Stage Load Capacity (kg) | 25 | 25 | 25 |
| Dimension (mm) | 563 x 592 x 870 | 785x 800 x 900 | 1070 x 1090 x770 |
| Net Weight (kg) | 130 | 230 | 340 |

All types of Gauges, Fixture and Multigauging Systems Manufacturing and Supply



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