Analysis Software

FORMTRACEPAK
FORMTRACEPAK functions offer total support for measurement system control, surface roughness analysis, contour analysis, contour tolerancing, and inspection report creation.

ROUNDPAK
A wide variety of parameters including those for roundness/cylindricity, as well as flatness and parallelism, are provided as standard features. You can visually select these parameters using icons.

Introducing Mitutoyo's Full Line of Form Measuring Equipment

Mitutoyo America Corporation
www.mitutoyo.com
One Number to Serve You Better
1-888-MITUTOYO (1-888-648-8669)

M’ Solution Centers:
Aurora, Illinois (Headquarters)
Boston, Massachusetts
Huntersville, North Carolina
Mason, Ohio
Plymouth, Michigan
City of Industry, California
Birmingham, Alabama
Renton, Washington
Houston, Texas

Find additional product literature and our product catalog
www.mitutoyo.com

Note: All information regarding our products, and in particular the illustrations, drawings, dimensional and performance data contained in this printed material, as well as other technical data, is to be regarded as approximate average values. We therefore reserve the right to make changes to the corresponding design, construction details, quantities, compositions, dimensions and structure of the products even after publication of the general trading conditions. We also reserve the right to make changes to the zero-setting and adjustment of the products. We therefore recommend checking the current technical literature of the products for details. In case of queries or claims, only quotations submitted by ourselves are definitive. Specifications are subject to change without notice.

Mitutoyo products are subject to US Export Administration Regulations (EAR). Re-export or relocation of our products may require prior approval by appropriate governing authorities.

Trademarks and Registrations

Companies used by companies to distinguish their products are often claimed as trademarks. In all instances where Mitutoyo America Corporation is aware of a claim, the product names appear in initial capital or all capital letters. The appropriate companies should be contacted for more complete trademark and registration information.

© 2016 Mitutoyo America Corporation, Aurora IL

1-888-mitutoyo | www.mitutoyo.com
**Contour Measuring Systems**

- Remarkable operability and functionality revolutionize contour measuring systems and enable measurement that is fast, accurate, and easy.

**Surface Roughness Measuring Systems**

- The 2.4-inch color graphic LCD provides excellent readability and an intuitive display that is easy to navigate.
- Data processing unit includes a 5.7-inch color graphic LCD touch-panel and a built-in high-speed thermal printer.

**Roundness Measuring Systems**

- Dramatically increased drive speed (X axis: 80 mm/s, Z axis: 30 mm/s) further reduces total measurement time.
- Both skidded and skidless measurement are possible with this series. Equipped with 46 roughness parameters that conform to the latest ISO, DIN, ANSI, and JIS standards.
- Semi-portable type that is PC based, capable of measuring in axial direction for parts such as crankshafts by simply swiveling the detector through 90 degrees.
- All models are equipped with a highly accurate turntable that enables simple and accurate centering and leveling of the workpiece, which account for the majority of the essential setup work for measuring roundness/cylindricity.

**CNC**

- This model introduces the dual-sided stylus design into the CNC model for the first time. The SV-C 4500CNC is a high accuracy contact type contour and surface roughness measuring system.

**CNC Surface Roughness Tester incorporating a column-moving type configuration that is ideal for measuring large/heavy workpiece such as engine blocks and crankshafts.**

- CNC Surface Roughness Tester incorporating a column-moving type configuration that is ideal for measuring large/heavy workpiece such as engine blocks and crankshafts.

**Data processing unit includes a 5.7-inch color graphic LCD touch-panel and a built-in high-speed thermal printer.**

**Optional detector holders such as Crank Rotary type and Manual Rotary type make this versatile for many different applications.**

- Optional detector holders such as Crank Rotary type and Manual Rotary type make this versatile for many different applications.

**These models offer high measuring accuracy and reliability using automated measurement with independent/simultaneous multi-axis CNC control. Roundness and surface roughness measurements are both available from a single measuring system.**

**Best-in-class rotational accuracy in compact type roundness measuring instruments. Fine adjustment on both X- and Z-axes**

**A new PC-compliant roundness and cylindrical-form measuring instrument with extensive analysis features to enable measurement of a wide variety of workpieces.**

**All models are equipped with a highly accurate turntable that enables simple and accurate centering and leveling of the workpiece, which account for the majority of the essential setup work for measuring roundness/cylindricity.**

---

**Surface Roughness Measuring Systems**

- SJ-210
  - The 2.4-inch color graphic LCD provides excellent readability and an intuitive display that is easy to navigate.

- SJ-310
  - Data processing unit includes a 5.7-inch color graphic LCD touch-panel and a built-in high-speed thermal printer.

- SJ-500P
  - Semi-portable type that is PC based, capable of measuring in axial direction for parts such as crankshafts by simply swiveling the detector through 90 degrees.

**Roundness Measuring Systems**

- RA-120P
  - Best-in-class rotational accuracy in compact type roundness measuring instruments. Fine adjustment on both X- and Z-axes

- RA-1600 / RA-1600M
  - A new PC-compliant roundness and cylindrical-form measuring instrument with extensive analysis features to enable measurement of a wide variety of workpieces.

**Contour Measuring Systems**

- CV-2100H4
  - Dramatically increased drive speed (X axis: 80 mm/s, 22 axis: 30 mm/s) further reduces total measurement time.

- CV-3200H4
  - When combined with the double cone-end stylus (a new product with diametrically opposed contact points), the instrument can continuously measure in the upward and downward directions without the need to change the arm orientation or reset the workpiece fixtureing.

- CV-4500H4
  - This model introduces the dual-sided stylus design into the CNC model for the first time. The CV-C 4500CNC is a high accuracy contact type contour and surface roughness measuring system.

- CV-4500H4
  - Semi-portable type that is PC based, capable of measuring in axial direction for parts such as crankshafts by simply swiveling the detector through 90 degrees.

**CNC**

- SV-C4500 CNC
  - CNC Surface Roughness Tester incorporating a column-moving type configuration that is ideal for measuring large/heavy workpiece such as engine blocks and crankshafts.

- SV-M3000 CNC
  - These models offer high measuring accuracy and reliability using automated measurement with independent/simultaneous multi-axis CNC control. Roundness and surface roughness measurements are both available from a single measuring system.

---

**Surface Roughness Measuring Systems**

- SJ-210
  - The 2.4-inch color graphic LCD provides excellent readability and an intuitive display that is easy to navigate.

- SJ-310
  - Data processing unit includes a 5.7-inch color graphic LCD touch-panel and a built-in high-speed thermal printer.

**Roundness Measuring Systems**

- RA-120P
  - Best-in-class rotational accuracy in compact type roundness measuring instruments. Fine adjustment on both X- and Z-axes

- RA-1600 / RA-1600M
  - A new PC-compliant roundness and cylindrical-form measuring instrument with extensive analysis features to enable measurement of a wide variety of workpieces.

**Contour Measuring Systems**

- CV-2100H4
  - Dramatically increased drive speed (X axis: 80 mm/s, 22 axis: 30 mm/s) further reduces total measurement time.

- CV-3200H4
  - When combined with the double cone-end stylus (a new product with diametrically opposed contact points), the instrument can continuously measure in the upward and downward directions without the need to change the arm orientation or reset the workpiece fixtureing.

- CV-4500H4
  - This model introduces the dual-sided stylus design into the CNC model for the first time. The CV-C 4500CNC is a high accuracy contact type contour and surface roughness measuring system.

- CV-4500H4
  - Semi-portable type that is PC based, capable of measuring in axial direction for parts such as crankshafts by simply swiveling the detector through 90 degrees.

**CNC**

- SV-C4500 CNC
  - CNC Surface Roughness Tester incorporating a column-moving type configuration that is ideal for measuring large/heavy workpiece such as engine blocks and crankshafts.

- SV-M3000 CNC
  - These models offer high measuring accuracy and reliability using automated measurement with independent/simultaneous multi-axis CNC control. Roundness and surface roughness measurements are both available from a single measuring system.

---