Entry level worldwide strategic machine pursuing low cost and ease of use
01 Compact Design

Existing model

- Width is 320 mm which is 49% reduction and height is 500 mm which is 22% reduction compared to our existing model.

Compact Design

- Achieved 1/4 of mass of existing model

02 Small Footprint: 0.13m²

Existing model

- 50% reduction of footprint compared to our existing model.

Small Footprint: 0.13m²

03 Lightweight Design

- Achieved 1/4 of mass of existing model

Existing model

- Mass of the measuring unit is 26 kg which is 78% reduction compared to our existing model.

Lightweight Design

- Mass of the measuring unit 120kg

- Mass of the measuring unit 26kg
04 Movable Column Design (Patent pending)

Distinctive movable column design

- R-axis arm can be moved from side to side

Design of existing model

- Z-axis column can be moved from side to side

Design of RONDCOM TOUCH

The placement of X-axis behind the main basement contributes to its compact design.

05 Advantages from Movable Column Design

Movable column type allows a detector to reach a workpiece from both right and left sides.

- In case Z-axis is placed on the right, a detector is limited to reach a workpiece only from the right side

With movable column structure

- A detector can flexibly reach a workpiece!!

Movable column design

※ Note: Above illustrations are images. Therefore, they do not represent RONDCOM TOUCH.
06 Simple Setup

Step 1
Pipe a regulator and open an air valve

Step 2
Unclamp jigs on the main unit and set up a detector holder and a detector

Step 3
Plug the main unit and turn on the machine!

Step 4
Turn on the tablet PC and activate ACCTee!

07 Tablet PC

From Desktop PC To Tablet PC

Excellent operability
- Employs Windows tablet PC
- Easy operation with touch screen
- Realizes high operability

Wireless communication
- Save installation space for PC
- Portable tablet PC allows operators to use anywhere they want!
  ⇒ Measure at shop floor! Analyze at office!
- USB cable connection also available

08 Easy Operation

Easy and intuitive operation realizes smooth measurements ever!
09 Wireless Communication (Wired communication also available)

- Wireless keyboard and wireless mouse available (Option (The photo is an image))
- Wireless printer available (Option (The photo is an image))

The use of wireless communication may be regulated depending on overseas regions. It is necessary to gain permission in each country to use Bluetooth. ACCRETECH have already received permissions for use in Japan and U.S.A, and we will apply for other countries hereafter.

10 All Necessary Icons on One Screen

- Buttons for measurement:
  1. [Measurement] Display measurement screen
  2. [Print] Display printing screen
  3. [Alignment] Display alignment assist screen
  4. [Calibration] Display detector calibration screen

- Main screen

- Tabs for data analysis:
  1. [Layout] Show and choose layouts of reports. (as shown in left)
  2. [Menu] Add items displayed on screen, save and read documents, etc.
  3. [Data pool] Display lists of measurement and analysis operations which have been executed.
  4. [Smart tool bar] Edit data in analysis area (changing colors of waveforms, adding parameters shown, etc).
  5. [Analysis area] Display print layout

11 Error Judgment (Standard)
If any problem occurs, this function identifies an error and shows a countermeasure to solve it.

- An error message shown with judgment informs an operator of an error status immediately.

Error examples:
- Lower air pressure
- Detector touches a workpiece too much
- Motor overcurrent
- Communication cut-off
- Time-out
12 **Alignment Assist Function** *(Standard)*

1. Alignment assist screen
   - **[Centering]** Execute centering.
   - **[Leveling]**

2. Turn a rotary table

3. Bar graphs show an eccentricity of rotation centers of a workpiece and a table.

4. Turn a knob and adjust the eccentricity to “0 (zero)”. Note: Same procedure for **[Leveling]**

13 **Gear Analysis Function** *(Standard)*

This function automatically recognizes gear tooth tips and allows roundness analysis using only tip surface data. *(Roundness AI function)*

- **Point**
  - Operators do not need to set a number of notch segment.

- **Detected gear tooth tips**
- **Automatic recognition of gear tooth tip data**

14 **Multi Languages** *(Standard)*

*Worldwide user-friendly machine*

- Available languages: Japanese, English, German, French, Italian, Spanish, Chinese, Korean, Czech, Polish
Specifications: (Measuring unit)

<table>
<thead>
<tr>
<th>Model</th>
<th>RONDCOM TOUCH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring method</td>
<td>Manual</td>
</tr>
<tr>
<td>Measuring range</td>
<td>Max. measuring diameter φ150 mm</td>
</tr>
<tr>
<td></td>
<td>Right/left feed range (X-axis) ± 80 mm (Manual)</td>
</tr>
<tr>
<td></td>
<td>Up/down feed range (Z-axis) 162 mm (Manual)</td>
</tr>
<tr>
<td></td>
<td>Max. loading diameter φ240 mm</td>
</tr>
<tr>
<td></td>
<td>Max. measuring height 160 mm</td>
</tr>
<tr>
<td>Rotation accuracy</td>
<td>Radial direction JISB7451-1997 (0.04+6H/10,000) μm</td>
</tr>
<tr>
<td></td>
<td>Axial direction R: Measuring radius [mm]</td>
</tr>
<tr>
<td></td>
<td>H: Mesasuring height [mm]</td>
</tr>
<tr>
<td>Rotational speed</td>
<td>6/min Fixed</td>
</tr>
<tr>
<td>Rotary table</td>
<td>Table outer diameter φ148 mm</td>
</tr>
<tr>
<td></td>
<td>Adjustment range * Centering ±2 mm (Manual)</td>
</tr>
<tr>
<td></td>
<td>Tiling ±1 ° (Manual) * Fixed tilting fulcrum mechanism</td>
</tr>
<tr>
<td></td>
<td>Max. load 15 kg</td>
</tr>
<tr>
<td>Detector</td>
<td>Detection range ±400 μm</td>
</tr>
<tr>
<td></td>
<td>Measuring force 70 mN</td>
</tr>
<tr>
<td></td>
<td>Stylus shape φ1.6 mm carbide ball</td>
</tr>
<tr>
<td></td>
<td>Stylus length 17 mm</td>
</tr>
<tr>
<td>Data processor</td>
<td>Tablet PC</td>
</tr>
<tr>
<td>OS</td>
<td>Windows®</td>
</tr>
<tr>
<td>Communication</td>
<td>Wireless Bluetooth®</td>
</tr>
<tr>
<td></td>
<td>Wired USB 2.0</td>
</tr>
<tr>
<td>Display device</td>
<td>10.1-inch TFT color LCD with touch panel (electrostatic capacitive type)</td>
</tr>
<tr>
<td>Interface</td>
<td>USB 2.0 × 2 pcs.</td>
</tr>
<tr>
<td>Software</td>
<td>ACCTe tablet version</td>
</tr>
<tr>
<td>Digital filter</td>
<td>Gaussian, Phase-compensation type 2RC, Spline, Robust (Spline)</td>
</tr>
<tr>
<td>Cutoff value</td>
<td>Rotation direction Low pass 15, 50, 150, 500 peaks/rotation</td>
</tr>
<tr>
<td></td>
<td>Band pass any value in range 15 to 500 peaks/rotation</td>
</tr>
<tr>
<td></td>
<td>15 to 150, 15 to 500 peaks/rotation</td>
</tr>
<tr>
<td>Display magnification</td>
<td>10 to 200 k (22 stages), Auto</td>
</tr>
<tr>
<td>Roundness evaluation of from error</td>
<td>MZC (Min. zone circle method), LSC (Least square circle method), MIC (Max. inscribed circle method), MCC (Min. circumscribed circle method), N.C. (No correction)</td>
</tr>
<tr>
<td>Measuring items</td>
<td>Rotation direction Roundness, flatness, concentricity, parallelism, coaxiality, squareness, thickness deviation, run-out</td>
</tr>
<tr>
<td>Analysis processing function</td>
<td>Notch function (level, angle, cursor), profile characteristic graph display (bearing area curve, amplitude density function, power spectrum), Gear analysis</td>
</tr>
<tr>
<td>Special function</td>
<td>Alignment assist function</td>
</tr>
<tr>
<td></td>
<td>Error judgment function</td>
</tr>
<tr>
<td></td>
<td>Security by password</td>
</tr>
<tr>
<td>Recording system</td>
<td>Color printer (option)</td>
</tr>
</tbody>
</table>

- Standard configuration and accessories
  - Measuring unit
  - Set of data processor (Tablet PC)
  - Measurement and analysis integrated software ACCTe tablet version
  - Standard detector holder [E-DT-RA61A]
  - Standard detector [E-DT-R272A]
  - Stylus [0194 002]
  - Set of regulator (attached to main unit)
  - Block gauge for magnification calibration (1.47 mm, 1.49 mm)

- Option (examples)
  - A4 ink jet color printer
  - Bench [E-DK-R56A]
  - Magnification calibration set [E-MC-R04A]
  - Master ball [E-MG-R01B]
  - Scroll chuck [E-WJ-R01C]
  - Stand for tablet PC

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Please prepare power supply, air supply and connecting hoses before installation.

The contents of this catalogue may be changed without notice when products are updated.

### Specifications

- **Model**: RONDCOM TOUCH
- **Measuring method**: Manual
- **Measuring range**:
  - Max. measuring diameter: φ150 mm
  - Right/left feed range (X-axis): ± 80 mm (Manual)
  - Up/down feed range (Z-axis): 162 mm (Manual)
  - Max. loading diameter: φ240 mm
  - Max. measuring height: 160 mm
- **Rotation accuracy**:
  - Radial direction: JISB7451-1997 (0.04+6H/10,000) μm
    - H: Mesasuring height [mm]
  - Axial direction:
    - R: Measuring radius [mm]
- **Rotational speed**: 6/min Fixed
- **Rotary table**:
  - Table outer diameter: φ148 mm
  - Adjustment range:
    - Centering: ±2 mm (Manual)
    - Tiling: ±1 ° (Manual)
    - *Fixed tilting fulcrum mechanism
  - Max. load: 15 kg
- **Detector**:
  - Detection range: ±400 μm
  - Measuring force: 70 mN
  - Stylus shape: φ1.6 mm carbide ball
  - Stylus length: 17 mm
- **Data processor**:
  - Tablet PC
  - OS: Windows®
  - Communication:
    - Wireless Bluetooth®
    - Wired USB 2.0
  - Display device: 10.1-inch TFT color LCD with touch panel (electrostatic capacitive type)
  - Interface: USB 2.0 × 2 pcs.
  - Software: ACCTe tablet version
  - Digital filter:
    - Gaussian, Phase-compensation type 2RC, Spline, Robust (Spline)
  - Cutoff value:
    - Rotation direction:
      - Low pass 15, 50, 150, 500 peaks/rotation
      - any value in range 15 to 500 peaks/rotation
    - Band pass 15 to 150, 15 to 500 peaks/rotation
  - Display magnification: 10 to 200 k (22 stages), Auto
  - Roundness evaluation of from error:
    - MZC (Min. zone circle method), LSC (Least square circle method), MIC (Max. inscribed circle method), MCC (Min. circumscribed circle method), N.C. (No correction)
  - Measuring items:
    - Rotation direction: Roundness, flatness, concentricity, parallelism, coaxiality, squareness, thickness deviation, run-out
  - Analysis processing function:
    - Notch function (level, angle, cursor), profile characteristic graph display (bearing area curve, amplitude density function, power spectrum), Gear analysis
  - Special function:
    - Alignment assist function
    - Error judgment function
    - Security by password
  - Recording system: Color printer (option)

### Others

- **Power supply**:
  - Voltage (frequency): Single-phase AC100 V to 240 V (50 / 60 Hz)
  - Power consumption: Max. 50 VA (Excluding tablet PC and printer)
- **Air supply**:
  - Supply pressure: 0.3 MPa to 0.7 MPa
  - Working pressure: 0.25 MPa
  - Air consumption: 30 NL / min
  - Supply position: Back of measuring unit
  - Connecting nipple for air supply: One-touch pipe joint for outer diameter φ8 mm hose
- **Dimensions and weight**:
  - **Measuring unit**:
    - Dimensions: 320 (W) × 410 (D) × 500 (H) mm
    - Weight: Approx. 26 kg
  - **Tablet PC**:
    - Dimensions: 183 (W) × 15.8 (D) × 263 (H) mm
    - Weight: Approx. 1 kg

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※ Please prepare power supply, air supply and connecting hoses before installation.
※ The contents of this catalogue may be changed without notice when products are updated.
## Styli (Standard detector [For E-DT-R272A])

<table>
<thead>
<tr>
<th>Name</th>
<th>Measuring application</th>
<th>Model</th>
<th>External view</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>General purpose</td>
<td></td>
<td>0194 000</td>
<td></td>
<td>φ3.2 mm Carbide ball  Component of standard detector and styli set</td>
</tr>
<tr>
<td>Small holes</td>
<td></td>
<td>0194 001</td>
<td></td>
<td>φ1.0 mm Carbide ball  Component of standard detector and styli set</td>
</tr>
<tr>
<td>General purpose</td>
<td></td>
<td>0194 002</td>
<td></td>
<td>φ1.6 mm Carbide ball  Standard accessory</td>
</tr>
<tr>
<td>Extra small holes</td>
<td></td>
<td>0194 009</td>
<td></td>
<td>φ0.5 mm Carbide ball</td>
</tr>
<tr>
<td>Extra small holes</td>
<td>EM49030-S361</td>
<td></td>
<td></td>
<td>φ0.5 mm Ruby ball</td>
</tr>
<tr>
<td>Extra small holes</td>
<td>EM49030-S381</td>
<td></td>
<td></td>
<td>φ0.3 mm Ruby ball</td>
</tr>
<tr>
<td>Grooves</td>
<td>0194 003</td>
<td></td>
<td></td>
<td>R0.25 mm, 55 °conical Sapphire</td>
</tr>
<tr>
<td>Deep grooves</td>
<td>0194 004</td>
<td></td>
<td></td>
<td>R0.25 mm, 55 °conical Sapphire</td>
</tr>
<tr>
<td>Comers</td>
<td>0194 005</td>
<td></td>
<td></td>
<td>R0.25 mm, 55 °conical Sapphire</td>
</tr>
<tr>
<td>Cutter mark removal</td>
<td>0194 010</td>
<td></td>
<td></td>
<td>R0.25 mm Sapphire</td>
</tr>
<tr>
<td>Grooves</td>
<td>0194 006</td>
<td></td>
<td></td>
<td>R0.25 mm, 55 °conical Sapphire</td>
</tr>
<tr>
<td>Grooves</td>
<td>0194 007</td>
<td></td>
<td></td>
<td>R0.25 mm, 55 °conical Sapphire</td>
</tr>
<tr>
<td>Deep grooves</td>
<td>0194 008</td>
<td></td>
<td></td>
<td>R0.25 mm, 55 °conical Sapphire</td>
</tr>
</tbody>
</table>

**Styli set**

> *Above mentioned items in [ ] are components of a standard detector and styli set.*

<table>
<thead>
<tr>
<th>Name</th>
<th>Model</th>
<th>External view</th>
<th>Remarks</th>
</tr>
</thead>
</table>
### Detector

<table>
<thead>
<tr>
<th>Name</th>
<th>Model</th>
<th>External view</th>
<th>Specifications</th>
<th>Remarks</th>
</tr>
</thead>
</table>
| Standard    | E-DT-R272A | ![Top of detector](image) | Measuring range: ±400 μm  
Measuring force: 70 mN  
Front adjustment mechanism  
ID/OD change function | Standard accessory for RONDCOM TOUCH  
Stylus for general purpose [0194 002]  
φ1.6 mm Carbide ball (Standard accessory)  
※ Component of standard detector and stylus set  
General purpose stylus [0194 002] is not included in standard detector and stylus set. |

### Calibrators

<table>
<thead>
<tr>
<th>Name</th>
<th>Model</th>
<th>External view</th>
<th>Specifications</th>
<th>Remarks</th>
</tr>
</thead>
</table>
| Magnification calibration set     | E-MC-R04A | ![20 10 12.2 15.5 28.8 58.8](image) | Max. calibration range: 400 μm  
Min. scale interval: 0.2 μm  
Weight: 17 kg | – |
| Master ball                       | E-MG-R05B | ![Ball ø12.7](image) | Sphericity: 0.05 μm  
Material: Chrome bearing steel | E-MG-R05B provided in wooden box. |
|                                   | E-MG-R01B | ![Ball ø12.7](image) | – | – |

### Bench

<table>
<thead>
<tr>
<th>Name</th>
<th>Model</th>
<th>External view</th>
<th>Specifications</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bench</td>
<td>E-DK-R56A</td>
<td><img src="image" alt="Bench" /></td>
<td>–</td>
<td>Dimensions: 570(W) × 490(D) × 652(H) mm</td>
</tr>
</tbody>
</table>
## Adjustment Devices

<table>
<thead>
<tr>
<th>Name</th>
<th>Model</th>
<th>External view</th>
<th>Specifications</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scroll chuck</td>
<td>E-WJ-R01C</td>
<td><img src="image1" alt="Scroll chuck" /></td>
<td>Securing range:&lt;br&gt;OD: 2 to 79 mm&lt;br&gt;ID: 20 to 90 mm&lt;br&gt;OD: 118 mm&lt;br&gt;Height: 41 mm&lt;br&gt;Weight: 1 kg</td>
<td>–</td>
</tr>
<tr>
<td>Pin vice set</td>
<td>E-WJ-R411A</td>
<td><img src="image2" alt="Pin vice set" /></td>
<td>Chuck range:&lt;br&gt;A-1: 0.1 to 1.1 mm&lt;br&gt;B-2: 1.2 to 2.0 mm&lt;br&gt;A-3: 2.0 to 2.5 mm&lt;br&gt;B-4: 2.5 to 3.2 mm</td>
<td>–</td>
</tr>
</tbody>
</table>

## Peripherals

<table>
<thead>
<tr>
<th>Name</th>
<th>Model</th>
<th>External view</th>
<th>Specifications</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refrigerating type air dryer</td>
<td>L-WF-R03B</td>
<td><img src="image3" alt="Refrigerating type air dryer" /></td>
<td>Max. flow: 100L/min&lt;br&gt;Power consumption: 165/195 W (50/60 Hz)&lt;br&gt;Weight: 15 kg</td>
<td>Power supply: 100V AC only&lt;br&gt;Dimensions: 220(W) × 350(D) × 400(H) mm</td>
</tr>
<tr>
<td></td>
<td>L-WF-R24A</td>
<td><img src="image4" alt="Refrigerating type air dryer" /></td>
<td>Max. flow: 200L/min&lt;br&gt;Power consumption: 180/202 W (50/60 Hz)&lt;br&gt;Weight: 18 kg</td>
<td>Power supply: 230V AC only&lt;br&gt;Dimensions: 226(W) × 410(D) × 473(H) mm&lt;br&gt;CE mark</td>
</tr>
<tr>
<td>Oil separator</td>
<td>L-WF-R07A</td>
<td><img src="image5" alt="Oil separator" /></td>
<td>Filtration: 0.1 µm</td>
<td>Dimensions: 100(W) × 190(H) mm&lt;br&gt;Weight: 1.7 kg</td>
</tr>
<tr>
<td>Water separator</td>
<td>L-WF-R08A</td>
<td><img src="image6" alt="Water separator" /></td>
<td>–</td>
<td>Dimensions: 100(W) × 80(D) × 280(H) mm</td>
</tr>
<tr>
<td>Air purifier set</td>
<td>L-WF-R11A</td>
<td><img src="image7" alt="Air purifier set" /></td>
<td>Oil separator, L-WF-R07A, and water separator, L-WF-R08A, are mounted on a plate</td>
<td>Dimensions: 320(W) × 170(D) × 378.5(H) mm</td>
</tr>
</tbody>
</table>

## Consumables

<table>
<thead>
<tr>
<th>Name</th>
<th>Model</th>
<th>External view</th>
<th>Specifications</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filter element</td>
<td>63092</td>
<td>–</td>
<td>AFM20P-060AS</td>
<td>For mist separator; model [AWM20-02C-2R]</td>
</tr>
<tr>
<td>Micro filter element</td>
<td>630611</td>
<td>–</td>
<td>AFD20P-060AS</td>
<td>For micro mist separator; model [AFD20-02C-2R]</td>
</tr>
<tr>
<td>Lubricating oil</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>180CC / Mobile Vactra Oil #2</td>
</tr>
</tbody>
</table>
Dimensions
Head Office
2968-2, Ishikawa-machi, Hachioji-city, Tokyo 192-8515, Japan
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http://www.accretech.jp/

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