Entry level worldwide strategic machine pursuing low cost and ease of use
01 Compact Design
Width is 320 mm which is 49% reduction and height is 500 mm which is 22% reduction compared to our existing model.

02 Small Footprint: 0.13m²
50% reduction of footprint compared to our existing model.

03 Lightweight Design
–Achieved 1/4 of mass of existing model
Mass of the measuring unit is 26 kg which is 78% reduction compared to our existing model.
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.

- A detector can flexibly reach a workpiece!!

<table>
<thead>
<tr>
<th>Fixed column design</th>
<th>Movable column design</th>
</tr>
</thead>
</table>

※ 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

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

Plug the main unit and turn on the machine!

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!

Touch "MEASUREMENT"

Touch "START"

Touch "PRINT"
09 Wireless Communication (Wired communication also available)

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

[Layout]
Show and choose layouts of reports. (as shown in left)

[Menu]
Add items displayed on screen, save and read documents, etc.

[Data pool]
Display lists of measurement and analysis operations which have been executed.

[Smart tool bar]
Edit data in analysis area (changing colors of waveforms, adding parameters shown, etc).

To edit layouts of documents

Any troubles!? [Help]
Display help text

[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**

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.

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>Specifications</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model</strong></td>
<td>RONDCOM TOUCH</td>
</tr>
<tr>
<td><strong>Measuring method</strong></td>
<td>Manual</td>
</tr>
<tr>
<td><strong>Measuring range</strong></td>
<td></td>
</tr>
<tr>
<td>Max. measuring diameter</td>
<td>φ150 mm</td>
</tr>
<tr>
<td>Right/left feed range (X-axis)</td>
<td>± 80 mm (Manual)</td>
</tr>
<tr>
<td>Up/down feed range (Z-axis)</td>
<td>162 mm (Manual)</td>
</tr>
<tr>
<td>Max. loading diameter</td>
<td>φ240 mm</td>
</tr>
<tr>
<td>Max. measuring height</td>
<td>160 mm</td>
</tr>
<tr>
<td><strong>Rotation accuracy</strong></td>
<td></td>
</tr>
<tr>
<td>Radial direction</td>
<td>JISB7451-1997</td>
</tr>
<tr>
<td>H: Measuring height [mm]</td>
<td>(0.04 + 6H/10,000) μm</td>
</tr>
<tr>
<td>Axial direction</td>
<td>(0.04 + 6R/10,000) μm</td>
</tr>
<tr>
<td>R: Measuring radius [mm]</td>
<td>(0: Rotation accuracy)</td>
</tr>
<tr>
<td><strong>Rotational speed</strong></td>
<td>6/min Fixed</td>
</tr>
<tr>
<td><strong>Rotary table</strong></td>
<td></td>
</tr>
<tr>
<td>Table outer diameter</td>
<td>φ148 mm</td>
</tr>
<tr>
<td>Adjustment range</td>
<td>± 2 mm (Manual)</td>
</tr>
<tr>
<td>Tiling</td>
<td>± 1° (Manual)</td>
</tr>
<tr>
<td>Max. load</td>
<td>15 kg</td>
</tr>
<tr>
<td><strong>Detector</strong></td>
<td></td>
</tr>
<tr>
<td>Detection range</td>
<td>± 400 μm</td>
</tr>
<tr>
<td>Measuring force</td>
<td>70 mN</td>
</tr>
<tr>
<td>Stylus shape</td>
<td>φ 1.6 mm carbide ball</td>
</tr>
<tr>
<td>Stylus length</td>
<td>17 mm</td>
</tr>
<tr>
<td><strong>Data processor</strong></td>
<td>Tablet PC</td>
</tr>
<tr>
<td>OS</td>
<td>Windows®</td>
</tr>
<tr>
<td>Communication</td>
<td>Wireless Bluetooth® 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 x 2 pcs.</td>
</tr>
<tr>
<td>Software</td>
<td>ACCTee tablet version</td>
</tr>
<tr>
<td>Digital filter</td>
<td>Gaussian, Phase-compensation type 2RC, Spline, Robust (Spline)</td>
</tr>
<tr>
<td><strong>Cutoff value</strong></td>
<td></td>
</tr>
<tr>
<td>Rotation direction</td>
<td>Low pass Band pass</td>
</tr>
<tr>
<td>15, 50, 150, 500 peaks/rotation</td>
<td>any value in range 15 to 500 peaks/rotation</td>
</tr>
<tr>
<td>15 to 150, 15 to 500 peaks/rotation</td>
<td></td>
</tr>
<tr>
<td><strong>Display magnification</strong></td>
<td>10 to 200 k (22 stages), Auto</td>
</tr>
<tr>
<td><strong>Roundness evaluation of from error</strong></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><strong>Measuring items</strong></td>
<td>Rotation direction</td>
</tr>
<tr>
<td>Roundness, flatness, concentricity, parallelism, coaxiality, squareness, thickness deviation, run-out</td>
<td></td>
</tr>
<tr>
<td><strong>Analysis processing function</strong></td>
<td></td>
</tr>
<tr>
<td>Notch function (level, angle, cursor), profile characteristic graph display (bearing area curve, amplitude density function, power spectrum), Gear analysis</td>
<td></td>
</tr>
<tr>
<td><strong>Special function</strong></td>
<td></td>
</tr>
<tr>
<td>Alignment assist function Error judgment function Security by password</td>
<td></td>
</tr>
<tr>
<td><strong>Recording system</strong></td>
<td>Color printer (option)</td>
</tr>
</tbody>
</table>

### Data processor

- **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 x 2 pcs.
- **Software**: ACCTee tablet version
- **Digital filter**: Gaussian, Phase-compensation type 2RC, Spline, Robust (Spline)
- **Cutoff value**:
  - Rotation direction: Low pass Band pass
    - 15, 50, 150, 500 peaks/rotation
    - any value in range 15 to 500 peaks/rotation
    - 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**: 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 φ 8 mm hose
- **Dimensions and weight**:
  - **Measuring unit**: 320 (W) × 410 (D) × 500 (H) mm, Approx. 26 kg
  - **Tablet PC**: 183 (W) × 15.8 (D) × 263 (H) mm, Approx. 1 kg

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※ For the use of Bluetooth, it is necessary to gain permission in each country.
The use of wireless communication may be restricted depending on overseas regions.
Please contact your nearest ACCRETECH.
※ 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><strong>Ball stylus</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| General purpose    | 0194 000              |         | ![Image](image1.png) | φ3.2 mm Carbide ball  
※ Component of standard detector and styli set |
| Small holes        | 0194 001              |         | ![Image](image2.png) | φ1.0 mm Carbide ball  
※ Component of standard detector and styli set |
| General purpose    | 0194 002              |         | ![Image](image3.png) | φ1.6 mm Carbide ball  
※ Standard accessory |
| Extra small holes  | 0194 009              |         | ![Image](image4.png) | φ0.5 mm Carbide ball |
| Extra small holes  | EM49030-S361          |         | ![Image](image5.png) | φ0.1 mm Ruby ball |
| Extra small holes  | EM49030-S381          |         | ![Image](image6.png) | φ0.3 mm Ruby ball |
| **L-type stylus**  |                       |         |               |                                                                         |
| Grooves            | 0194 003              |         | ![Image](image7.png) | R0.25 mm, 55 °conical Sapphire |
| Deep grooves       | 0194 004              |         | ![Image](image8.png) | R0.25 mm, 55 °conical Sapphire  
※ Component of standard detector and styli set |
| Comers             | 0194 005              |         | ![Image](image9.png) | R0.25 mm, 55 °conical Sapphire |
| Cutter mark removal| 0194 010              |         | ![Image](image10.png) | R0.25 mm Sapphire |
| **T-type stylus**  |                       |         |               |                                                                         |
| Grooves            | 0194 006              |         | ![Image](image11.png) | R0.25 mm, 55 °conical Sapphire |
| Grooves            | 0194 007              |         | ![Image](image12.png) | R0.25 mm, 55 °conical Sapphire  
※ Component of standard detector and styli set |
| Deep grooves       | 0194 008              |         | ![Image](image13.png) | R0.25 mm, 55 °conical Sapphire |

**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>
| Standard detector  | E-DT-R276A | ![Image](image14.png) | Combination of standard detector [E-DT-R272A] and styli listed to the left  
Components:  
1) Standard detector [E-DT-R272A]  
2) General purpose stylus [0194 000]  
3) Small hole stylus [0194 001]  
4) Deep groove stylus [0194 004]  
5) Groove stylus [0194 007]  
Note: General purpose stylus [0194 002] is not included in this set. |
## 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     | ![Magnification calibration set](image) | Max. calibration range: 400 µm  
Min. scale interval: 0.2 µm  
Weight: 17 kg | – |
| Master ball             | E-MG-R05B     | ![Master ball](image) | Sphericity: 0.05 µm  
Material: Chrome bearing steel | E-MG-R05B provided in wooden box. |
|                         | E-MG-R01B     | ![Master ball](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="scroll_chart.png" alt="scroll chuck diagram" /></td>
<td>Securing range&lt;br&gt;OD: φ2 to 79 mm&lt;br&gt;ID: φ20 to 90 mm&lt;br&gt;OD: φ118 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="pin_vice_diagram.png" alt="pin vice set diagram" /></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="dryer_chart.png" alt="refrigerating type air dryer diagram" /></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="dryer_chart.png" alt="refrigerating type air dryer diagram" /></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 CE mark</td>
</tr>
<tr>
<td>Oil separator</td>
<td>L-WF-R07A</td>
<td><img src="oil_separator_diagram.png" alt="oil separator diagram" /></td>
<td>Filtration: 0.1 µm&lt;br&gt;Dimensions: 100(W) × 190(H) mm&lt;br&gt;Weight: 1.7 kg</td>
<td>–</td>
</tr>
<tr>
<td>Water separator</td>
<td>L-WF-R08A</td>
<td><img src="water_separator_diagram.png" alt="water separator diagram" /></td>
<td>–&lt;br&gt;Dimensions: 100(W) × 80(D) × 280(H) mm</td>
<td>–</td>
</tr>
<tr>
<td>Air purifier set</td>
<td>L-WF-R11A</td>
<td><img src="air_purifier_diagram.png" alt="air purifier set diagram" /></td>
<td>Oil separator, L-WF-R07A, and water separator, L-WF-R08A, are mounted on a plate&lt;br&gt;Dimensions: 320(W)×170(D)×378.5(H)mm</td>
<td>–</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&lt;br&gt;For mist separator; model [ AWM20-02C-2R ]</td>
<td>–</td>
</tr>
<tr>
<td>Micro filter element</td>
<td>630611</td>
<td>–</td>
<td>AFD20P-060AS&lt;br&gt;For micro mist separator; model [ AFD20-02C-2R ]</td>
<td>–</td>
</tr>
<tr>
<td>Lubricating oil</td>
<td>–</td>
<td>–</td>
<td>180CC / Mobile Vactra Oil #2</td>
<td>–</td>
</tr>
</tbody>
</table>
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