Non-contact 3D Surface Profilometer

Opt-scope CLW

Enlarge applying objects by extended measuring range and working distance. Portable Non-contact 3D Surface Profilometer which applicable to in-line/on-machine measurement

- Wider range and longer working distance to measure various objects
  
  Amazingly 40 mm for Z-direction measuring range, working distance. Suitable for "Non-contact" and "3D" measurement of a deep hole bottom, gear tooth surface, and surface profile of cylindrical workpiece inside without the danger of contact between measuring unit and workpieces. Overcoming weaknesses of conventional microscope.

- Compact and lightweight design for easy carrying
  
  Easy to carry by compact and lightweight design. (Measuring unit: 4.5 kg) Best use to measure heavy or immovable workpiece as it is portable.

- Great expandability applicable to in-line/on-machine measurement
  
  Connectable driver unit to other machine by LAN, also measuring unit is attachable to processing machines. It contributes the needs of "labor-saving" and "streamlined process".

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<table>
<thead>
<tr>
<th>Items</th>
<th>Opt-scope CLW - Long working Distance Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement method</td>
<td>Vertical scanning typed white interference method</td>
</tr>
<tr>
<td>Interference fringe peak detection method</td>
<td>DEAP Algorithm</td>
</tr>
<tr>
<td>Light source</td>
<td>High-intensity white LED</td>
</tr>
<tr>
<td>Vertical scanning range (Z)</td>
<td>40</td>
</tr>
<tr>
<td>Working distance</td>
<td>40</td>
</tr>
<tr>
<td>Vertical resolution</td>
<td>0.1</td>
</tr>
<tr>
<td>Z-axis indication accuracy (µm)</td>
<td>(\pm (0.8+2H/100))</td>
</tr>
<tr>
<td>Measurement range (XY)</td>
<td>2.8 \times 2.8</td>
</tr>
<tr>
<td>CCD pixel</td>
<td>2048 \times 2048</td>
</tr>
<tr>
<td>External dimensions (mm)</td>
<td>W: 244 D: 180 H: 417</td>
</tr>
<tr>
<td></td>
<td>(Measuring unit W: 133 D: 128 H: 280)</td>
</tr>
<tr>
<td>Basic machine weight (kg)</td>
<td>7.8</td>
</tr>
<tr>
<td></td>
<td>(Measuring unit: 4.5)</td>
</tr>
</tbody>
</table>

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Measuring sample - Gear tooth surface roughness

Measuring sample - Inside of cylindrical workpiece

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World wide Sales and Service Offices

Japan / Head Office
2968-2, Ishikawa-machi, Hachioji-shi,
Tokyo 192-0032, Japan
TEL: +81(0)42-642-1701 FAX: +81(0)42-642-1821

International Sales and Marketing
4, Higashi-Nakanuki-machi, Tsuchiura-shi,
Ibaraki 300-0006, Japan
TEL: +81(0)29-831-1240 FAX: +81(0)29-831-1461

Germany / Accretech (Europe) GmbH
Head Office
Landsberger Str. 396, D-81241 Munich, Germany
TEL: +49(0)89-546788-0 FAX: +49(0)89-546788-10

Brasil / Accretech do Brasil Ltda.
77 Room, 7th Floor, Rua Nove de Julho 72
Santo Amaro, Sao Paulo 04739-010, Brazil
TEL/FAX: +55(0)11-3360-9531

Korea / Accretech Korea Co., Ltd.
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(3F, Fine Venture Bldg., Yatap-dong)
41, Seongnam-daero 925 beon-gil, Bundang-gu,
Seongnam-si, Gyeonggi-do, 463-828, Korea
TEL: +82(0)31-786-4000 FAX: +82(0)31-786-4090

China / Accretech (China) Co., Ltd.
Head Office / Shanghai
Room2101C, No.1077 ZuChongZhi Road, Zhang Jiang Hi-Tech Park,
Pudong New Area, Shanghai, China, 201203
TEL: +86(0)21-3887-0801 FAX: +86(0)21-3887-0805

Thailand / Accretech (Thailand) Co., Ltd.
HQ & Metrology
2/3 Moo 14, Bangna Tower A, 16th Fl., Bangna-Trad Road,
K.M. 6.5, Bangkaew, Bangplee, Samutprakan 10540, Thailand
TEL: +66(2)751-9573, 9574 FAX: +66(2)751-9575

Malaysia / Accretech (Malaysia) Sdn. Bhd.
Head Office
NO.39, Jalan PJS 11/2, Subang Indah,
46000 Petaling Jaya, Selangor, Malaysia
TEL: +60(3)5632-7488 FAX: +60(3)5632-7489

Vietnam / Accretech Vietnam Co., Ltd.
Hanoi Representative Office
356 room, 6th Floor, Office Building, 85 Nguyen Du St,
Hai Ba Trung Dist, Hanoi, Vietnam
TEL: +84(4)3941-3309 FAX: +84(4)3941-3310

Ho Chi Minh Office
Room No.1101-1102, the 11th Floor, Broadcast Office Building,
343 Dien Bien Phu Street, Ward,15, Binh Thanh District,
Ho Chi Minh City, Vietnam
TEL: +84(8)3512-6760 FAX: +84(4)3941-3310

Indonesia / PT Accretech Indonesia
Komplek Rukan Cikarang Square Block D No.68
JL. Raya Cikarang-Cibarusah KM 40 No.1 Cikarang
Bekasi 17530, Indonesia
TEL: +62(0)21-2961-2375 FAX: +62(0)21-2961-2376

Taiwan / Accretech (Taiwan) Co., Ltd.
Metrology Division
2F, No.199, Zhonghe St., Zhubei City,
Hsinchu County 30267, Taiwan (R.O.C)
TEL: +886(0)3-553-1300 FAX: +886(0)3-553-1319

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