

## MEASURING ARMS

- In accordance with ISO 10360-12
- Internal balance
- Dual high performance batteries
- Equivalent-arm design
- High-Speed WiFi performance
- Aerospace grade carbon-fiber material
- Automatic power off
- U-shaped anti-collision design base



CMM-CM30

### STANDARD PRECISE, BE SERIES, 6-AXIS

Unit: mm

| Code     | Measuring range | Maximum permissible error |                  |                   |                   |                  |
|----------|-----------------|---------------------------|------------------|-------------------|-------------------|------------------|
|          |                 | SPAT                      | E <sub>UNI</sub> | P <sub>SIZE</sub> | P <sub>FORM</sub> | L <sub>DIA</sub> |
| CMM-BE15 | 1500            | 0.028                     | 0.036            | 0.015             | 0.029             | 0.038            |
| CMM-BE20 | 2000            | 0.030                     | 0.040            | 0.018             | 0.035             | 0.041            |
| CMM-BE25 | 2500            | 0.035                     | 0.045            | 0.020             | 0.038             | 0.050            |
| CMM-BE30 | 3000            | 0.055                     | 0.065            | 0.028             | 0.045             | 0.080            |
| CMM-BE35 | 3500            | 0.075                     | 0.080            | 0.035             | 0.058             | 0.098            |
| CMM-BE40 | 4000            | 0.090                     | 0.100            | 0.044             | 0.068             | 0.116            |
| CMM-BE45 | 4500            | 0.112                     | 0.120            | 0.048             | 0.086             | 0.128            |

### HIGH PRECISE, CM SERIES, 6-AXIS

Unit: mm

| Code     | Measuring range | Maximum permissible error |                  |                   |                   |                  |
|----------|-----------------|---------------------------|------------------|-------------------|-------------------|------------------|
|          |                 | SPAT                      | E <sub>UNI</sub> | P <sub>SIZE</sub> | P <sub>FORM</sub> | L <sub>DIA</sub> |
| CMM-CM15 | 1500            | 0.018                     | 0.025            | 0.009             | 0.016             | 0.026            |
| CMM-CM20 | 2000            | 0.020                     | 0.028            | 0.010             | 0.018             | 0.032            |
| CMM-CM25 | 2500            | 0.023                     | 0.030            | 0.012             | 0.022             | 0.038            |
| CMM-CM30 | 3000            | 0.034                     | 0.042            | 0.016             | 0.032             | 0.052            |
| CMM-CM35 | 3500            | 0.043                     | 0.056            | 0.020             | 0.038             | 0.066            |
| CMM-CM40 | 4000            | 0.052                     | 0.066            | 0.024             | 0.044             | 0.083            |
| CMM-CM45 | 4500            | 0.061                     | 0.089            | 0.038             | 0.078             | 0.108            |

HIGH PRECISE, CM SERIES, 7-AXIS

Unit: mm

| Code      | Measuring range | Maximum permissible error |                  |                   |                   |                  |
|-----------|-----------------|---------------------------|------------------|-------------------|-------------------|------------------|
|           |                 | SPAT                      | E <sub>UNI</sub> | P <sub>SIZE</sub> | P <sub>FORM</sub> | L <sub>DIA</sub> |
| CMM-CM20S | 2000            | 0.022                     | 0.030            | 0.012             | 0.022             | 0.040            |
| CMM-CM25S | 2500            | 0.027                     | 0.032            | 0.013             | 0.025             | 0.048            |
| CMM-CM30S | 3000            | 0.042                     | 0.053            | 0.020             | 0.035             | 0.078            |
| CMM-CM35S | 3500            | 0.055                     | 0.066            | 0.024             | 0.043             | 0.092            |
| CMM-CM40S | 4000            | 0.065                     | 0.082            | 0.029             | 0.048             | 0.102            |
| CMM-CM45S | 4500            | 0.073                     | 0.099            | 0.043             | 0.082             | 0.132            |

ULTRA HIGH PRECISE, HP SERIES, 6-AXIS

Unit: mm

| Code     | Measuring range | Maximum permissible error |                  |                   |                   |                  |
|----------|-----------------|---------------------------|------------------|-------------------|-------------------|------------------|
|          |                 | SPAT                      | E <sub>UNI</sub> | P <sub>SIZE</sub> | P <sub>FORM</sub> | L <sub>DIA</sub> |
| CMM-HP15 | 1500            | 0.012                     | 0.022            | 0.007             | 0.012             | 0.024            |
| CMM-HP20 | 2000            | 0.016                     | 0.024            | 0.008             | 0.015             | 0.030            |
| CMM-HP25 | 2500            | 0.018                     | 0.026            | 0.009             | 0.018             | 0.032            |
| CMM-HP30 | 3000            | 0.026                     | 0.038            | 0.012             | 0.025             | 0.045            |
| CMM-HP35 | 3500            | 0.036                     | 0.052            | 0.016             | 0.034             | 0.060            |
| CMM-HP40 | 4000            | 0.045                     | 0.063            | 0.020             | 0.038             | 0.077            |
| CMM-HP45 | 4500            | 0.055                     | 0.080            | 0.028             | 0.050             | 0.101            |

ULTRA HIGH PRECISE, HP SERIES, 7-AXIS

Unit: mm

| Code      | Measuring range | Maximum permissible error |                  |                   |                   |                  |
|-----------|-----------------|---------------------------|------------------|-------------------|-------------------|------------------|
|           |                 | SPAT                      | E <sub>UNI</sub> | P <sub>SIZE</sub> | P <sub>FORM</sub> | L <sub>DIA</sub> |
| CMM-HP20S | 2000            | 0.018                     | 0.026            | 0.010             | 0.019             | 0.038            |
| CMM-HP25S | 2500            | 0.020                     | 0.028            | 0.011             | 0.022             | 0.042            |
| CMM-HP30S | 3000            | 0.032                     | 0.048            | 0.016             | 0.032             | 0.072            |
| CMM-HP35S | 3500            | 0.045                     | 0.061            | 0.020             | 0.039             | 0.088            |
| CMM-HP40S | 4000            | 0.055                     | 0.076            | 0.026             | 0.044             | 0.098            |
| CMM-HP45S | 4500            | 0.065                     | 0.095            | 0.036             | 0.065             | 0.122            |



Single-point articulation test



Distance measurement error between two points



Sphere size measurement error



Sphere form measurement error



Sphere diameter obtained from performing the articulated location test  
(Diameter of the spherical zone containing the centers of a sphere measured from multiple orientations)

SPECIFICATION

|                       |                                           |
|-----------------------|-------------------------------------------|
| Temperature rate      | 3°C/5min                                  |
| Battery life          | 5h for one battery; 10h for two batteries |
| Output                | USB, WI-FI                                |
| Operation Temperature | 5°C-45°C                                  |
| Operation humidity    | 0-95%, non-condensing                     |
| Power                 | 100-240VAC, 50/60HZ                       |
| Weight                | 8.8kg to 10.6kg                           |

STANDARD DELIVERY

|                       |       |
|-----------------------|-------|
| Main unit             | 1 pc  |
| 3mm zircon ball probe | 1 pc  |
| 6mm zircon ball probe | 1 pc  |
| Calibration cone      | 1 pc  |
| Lithium batteries     | 2 pcs |
| USB cable             | 1 pc  |
| Power adapter         | 1 pc  |
| Dust cover            | 1 pc  |



3mm zircon ball probe (included)



6mm zircon ball probe (included)



calibration cone (included)

OPTIONAL ACCESSORY

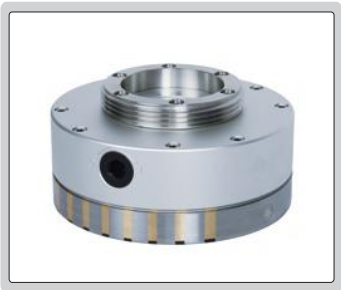
|                             |              |
|-----------------------------|--------------|
| DELL laptop                 | CMM-CEM-PCE  |
| Software                    | CMM-ARM-DMIS |
| Adjustable tripod           | CMM-CEM-FAT  |
| Electric vacuum base        | CMM-CEM-EVCP |
| Magnetic base               | CMM-CEM-IMM  |
| Magnetic cones              | CMM-CEM-MC   |
| Magnetic spheres            | CMM-CEM-MS   |
| Point probe                 | CMM-CEM-PP   |
| 2mm ruby ball probe         | CMM-CEM-RP2  |
| 5mm zircon ball probe       | CMM-CEM-ZP5  |
| 10mm zircon ball probe      | CMM-CEM-ZP10 |
| 3" straight probe extension | CMM-CEM-SPE3 |
| 4" straight probe extension | CMM-CEM-SPE4 |
| 60° probe adapter           | CMM-CEM-DP60 |
| 90° probe adapter           | CMM-CEM-DP90 |
| 3mm extended ball probe     | CMM-CEM-EPB3 |
| 6mm extended ball probe     | CMM-CEM-EPB6 |
| Probe adapter               | CMM-CEM-PA   |



adjustable tripod (optional)



DELL laptop (optional)



magnetic base (optional)



electric vacuum base (optional)