

## GEAR MEASURING CENTERS (BASIC TYPE)

MODULAR  
SOFTWARE

AUTOMIZED  
SERVICE



**IGE-BMC200**

- Three axis servo motor drive
- Extended measurement function for camshafts and other workpieces
- The base, columns, etc are all made of granite, which is stable and not deformed
- High precision circular guide rail, high-precision linear grating, circular grating, fully closed-loop servo control system
- Suitable for detecting various types of involute cylindrical gears, gear cutting tools, bevel gears, worm gears, and other workpieces
- This software has eccentricity correction function and user-friendly measurement software technology
- Modular software provides standard and optional gear measurement services of various types, and can also provide and develop special workpiece measurement software according to customer requirements

### SPECIFICATION

| Code                                 | IGE-BMC200                | IGE-BMC300    | IGE-BMC400    | IGE-BMC500     | IGE-BMC600     | IGE-BMC800     | IGE-BMC1000    |
|--------------------------------------|---------------------------|---------------|---------------|----------------|----------------|----------------|----------------|
| Module of the gear                   | 0.5~8mm                   | 0.5~15mm      | 0.5~17mm      | 0.5~20mm       | 0.5~20mm       | 1~22mm         | 1~50mm         |
| Maximum diameter of the gear         | 240mm                     | 350mm         | 400mm         | 500mm          | 600mm          | 800mm          | 1000mm         |
| Distance between top and bottom tips | 10~400mm                  | 10~600mm      | 10~700mm      | 20~900mm       | 20~900mm       | 20~1200mm      | 20~1200mm      |
| Vertical range                       | 240mm                     | 300mm         | 400mm         | 500mm          | 500mm          | 600mm          | 600mm          |
| Helix angle range                    | ±90°                      |               |               |                |                |                |                |
| Accuracy class                       | VDI/VDE 2612/2613-Level 2 |               |               |                |                |                |                |
| Power                                | 220V, 50Hz                |               |               |                |                |                |                |
| Dimension (mm)                       | 600×1050×1750             | 630×1130×1850 | 750×1350×1950 | 1120×1250×2300 | 1200×1200×2050 | 1600×1900×2400 | 1800×2100×2400 |
| Net weight                           | 1000kg                    | 1200kg        | 1600kg        | 2000kg         | 2500kg         | 4500kg         | 6000kg         |

**OPTIONAL ACCESSORY**

|                                                                              |              |
|------------------------------------------------------------------------------|--------------|
| Ø0.3mm probe                                                                 | IGE-BMC-MP03 |
| Ø0.4mm probe                                                                 | IGE-BMC-MP04 |
| Ø0.5mm probe                                                                 | IGE-BMC-MP05 |
| Ø0.8mm probe                                                                 | IGE-BMC-MP08 |
| Ø1mm probe                                                                   | IGE-BMC-MP10 |
| Ø1.5mm probe                                                                 | IGE-BMC-MP15 |
| Ø2mm probe                                                                   | IGE-BMC-MP20 |
| Ø3mm probe                                                                   | IGE-BMC-MP30 |
| Probe extension rod                                                          | IGE-BMC-CR   |
| Internal dimension measuring hook assembly                                   | IGE-BMC-TH   |
| Small chuck jaw plate                                                        | IGE-BMC-SC   |
| Large chuck jaw plate                                                        | IGE-BMC-BC   |
| Involute reference template                                                  | IGE-BMC-ST   |
| Worm gear measurement software                                               | IGE-BMC-WG   |
| Worm wheel measurement software                                              | IGE-BMC-TB   |
| Bevel gear measurement software                                              | IGE-BMC-HBG  |
| Software for measuring helical bevel gears and straight bevel gears          | IGE-BMC-SBG  |
| Internal gear measurement software                                           | IGE-BMC-NG   |
| Eccentric pinwheel measurement software                                      | IGE-BMC-EG   |
| Internal and external triangular and rectangular spline measurement software | IGE-BMC-ES   |
| Rack measurement software                                                    | IGE-BMC-RK   |
| Synchronizer gear measurement software                                       | IGE-BMC-SG   |
| Disc milling cutter measurement software                                     | IGE-BMC-DC   |
| Screw rod measurement software                                               | IGE-BMC-SR   |
| Unknown gear measurement software                                            | IGE-BMC-UG   |
| Unknown worm gear measurement software                                       | IGE-BMC-UWG  |

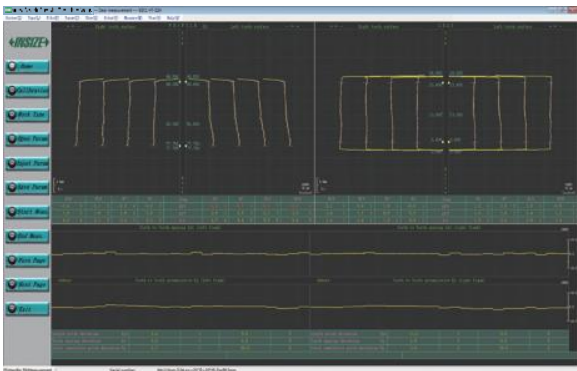
**STANDARD DELIVERY**

|                                        |       |
|----------------------------------------|-------|
| Main unit                              | 1 pc  |
| Computer                               | 1 pc  |
| Printer                                | 1 pc  |
| Drive unit                             | 1 set |
| Standard mandrel                       | 1 pc  |
| Ø1mm probe                             | 2 pcs |
| Ø2mm probe                             | 2 pcs |
| Ø3mm probe                             | 2 pcs |
| Microcator                             | 1 pc  |
| Cylindrical gear measurement software  | 1 set |
| Gear hob measurement software          | 1 set |
| Gear cutting tool measurement software | 1 set |
| Gear shaving measurement software      | 1 set |

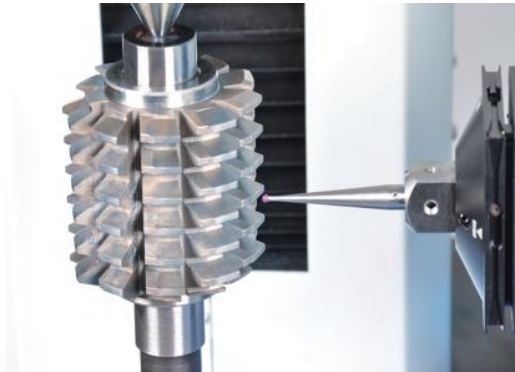
**Introduction to measurement function (standard configuration)**



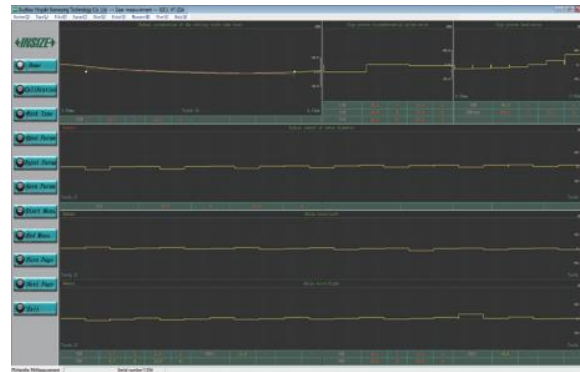
**cylindrical gear measurement**



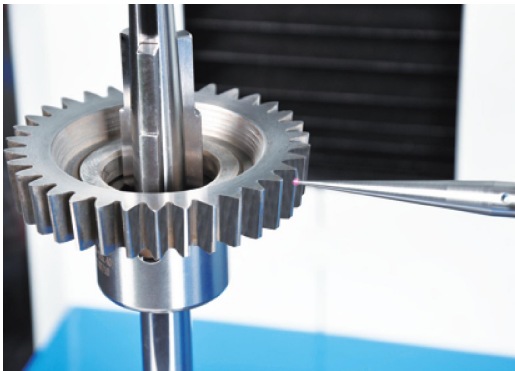
**cylindrical gear result**



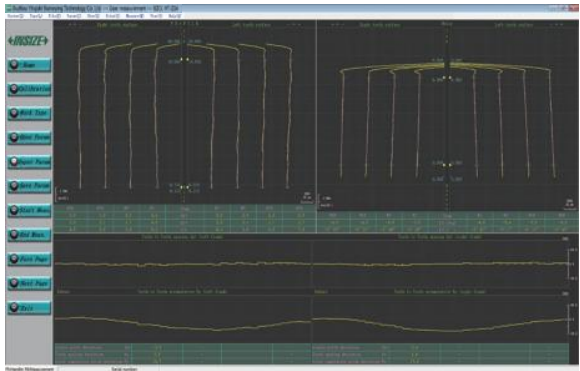
gear hob measurement



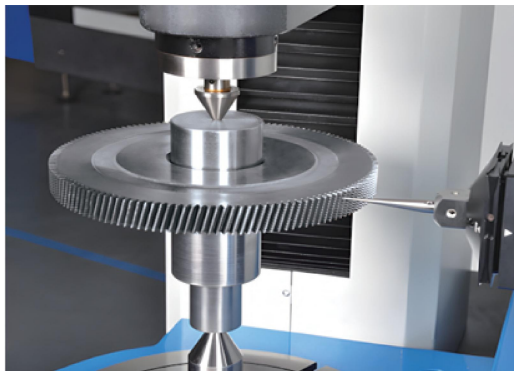
hob tooth pitch result



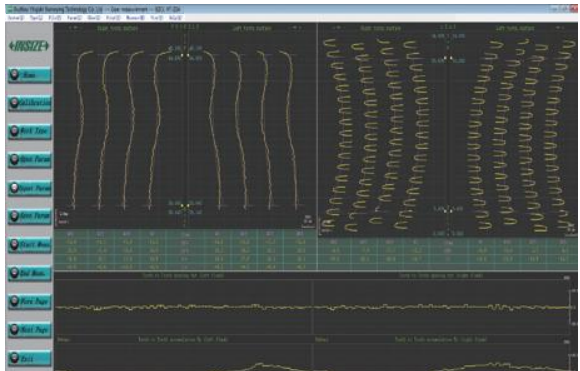
gear cutting measurement



gear cutting result



gear shaver measurement



gear shaver result