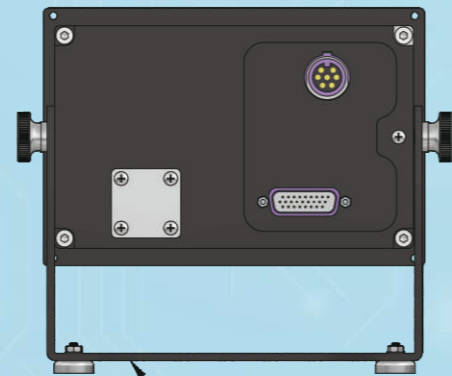
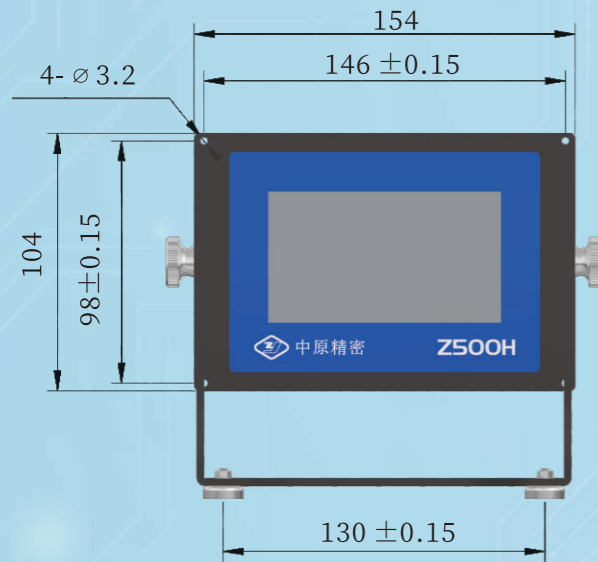
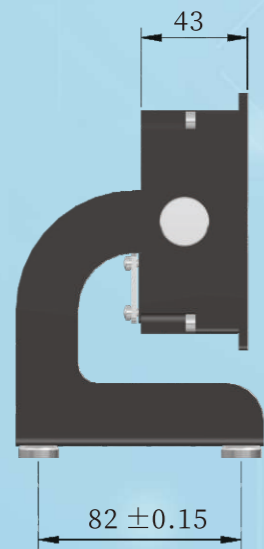


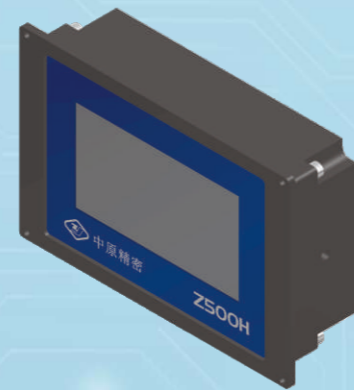
## Installation Size



Magnetic base Scaffolded



Adjustable screen orientation



Embedded

Slot size: 146×91  
Installation hole distance: 146×98



## Summary

The Z500H controller unit is based on latest digital signal processing system, using the latest control technology to an instrument for on-line monitoring and control of grinding machines.

| Features   | Technical parameter   | Performance  | Application range                          |
|--|---|--|--|
| ○ Touch screen operation display                                 | ○ Single project  | ○ Measurement range $\pm 1000\mu\text{m}$                | ○ Back insert reciprocating ID measurement |
| ○ Freestanding or embedded installation                          | ○ Differential transformer sensor input   | ○ Power supply 24 VDC<br>(-15% / +20%) 5% ripple voltage |  |
| ○ Friendly man-machine interface                                 | ○ I/O signal<br>■ 24 VDC optical<br>■ Input signal current 5mA<br>■ Output signal current 100mA | ○ Power consumption 8W                                   |  |
| ○ Easy and fast operation  |   |  |  |
| ○ Exquisite appearance and small size, saving installation space |   |  |  |
| ○ Industrial design to adapt to harsh environment                | ○ 4.3" touch screen   |  |  |

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### Function

The back inserted gage unit ZHF series are mainly used to gage the in-process machining of bearing workpiece that with small diameter. The size ZHF-25 is smaller than ZHF-32. They can fit all different kind of hole site in machine tool spindle. Both of the two types can fit the static and reciprocated modes. Two devices are used in conjunction with the company's Z500H.

### Applications

|                        | ZHF-32   | ZHF-25    |
|------------------------|--|-----------|
| Pre-stroke             | -60~-90μm  | -60~-90μm |
| Measuring force        | 90~120gf   | 90~120gf  |
| Repeatability          | 1 μm/25t   | 1 μm/25t  |
| Measuring range        | φ3~φ22   | φ2.5~φ21  |
| Cable length           | 3m+0.5m transition line (standard configuration) |           |
| Optional configuration | Rod components, gauges, others                   |           |

- The ZHF-25 space structure is small, with a volume reduction of about 53% compared to ZHF-32, making it suitable for installation and use in small space structures. At the same time, it can achieve a smaller measurement range.
- Due to the absence of sliding wear components in the internal structure, high durability can be guaranteed.
- Due to the use of high-precision sensors and unique elastomers, high rigidity and precision have been achieved.

| Application | Model     | Adjustment unit | Connecting sleeve | Note |
|-------------|-----------|-----------------|-------------------|------|
| ID          | ZHF-25/32 | SH-Z4           | RF-04A/11         |      |

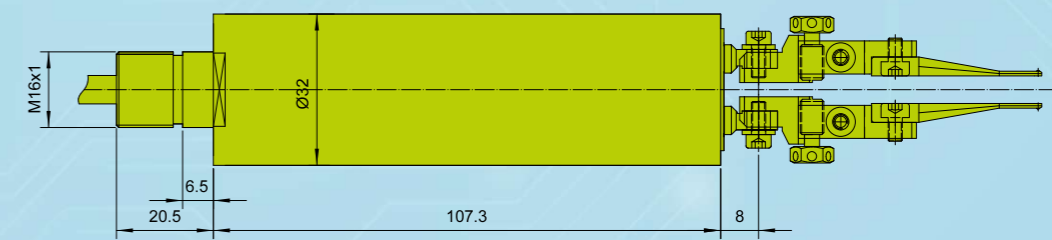
### Measuring range

| Type                         | ZHF-32  | ZHF-25  |
|------------------------------|---------|---------|
| Contact A(SH-1025)           | -       | φ2.5~φ5 |
| Contact B(SH-1033)           | φ3~φ6.5 | φ3~φ5.5 |
| Contact C(SH-1021N1/1021N1A) | φ4~φ10  | φ3~φ9   |
| Contact D(SH-1021N2/1021N2A) | φ10~φ16 | φ9~φ15  |
| Contact E(SH-1021N3)         | φ16~φ22 | φ15~φ21 |

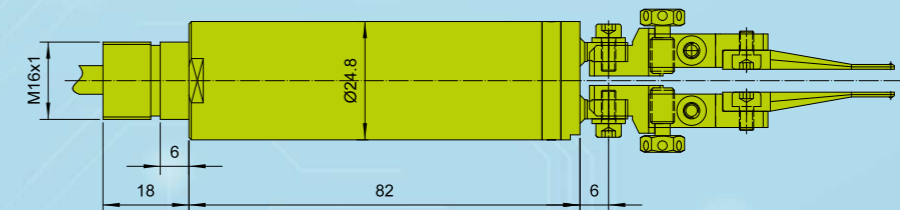
### Gage Unit



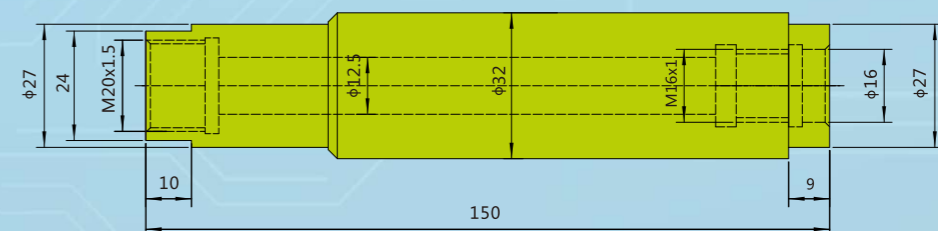
### Overall Dimension



ZHF-32



ZHF-25



Schematic diagram of device connection sleeve