

The MST Series checking stands provide a stable and safe platform for fast, precise bore gauging, particularly suited for serial production of small components.

The MST58 offers an approximate measuring stroke of 35 mm, while the MST102 provides an extended stroke of around 130 mm, accommodating a wider range of applications.

Both models are fully compatible with Split Ball probes and allow measurements without the need to search for the reversal point, increasing efficiency and repeatability. The MST102, along with the KM mini fixture, is also suitable for use with BMD plug gauges. For optimal measurement performance, the use of floating holders is recommended.

## MST58

### Precise Checking Stand 0 - 35mm

The **MST58** is easy to handle and particularly suitable for small workpieces such as ball-bearing rings, nozzles, or sleeves. Its continuously adjustable **measuring range of 0–35 mm** allows flexible operation, while the adjusting nut enables precise and effortless height positioning of the measuring device. The measuring plate has a diameter of 58 mm and can be equipped with additional accessories for enhanced usability, including a clamp-on vee (**MST-WA**) for easier positioning of cylindrical components and a perforated plate (**MST-MT80**) designed for measuring through-bores up to  $\varnothing 13$  mm.

The measuring device can be mounted on the stand using either the MH6-51-MST indicator holder (without plastic grip) or a floating holder, providing secure and stable setup options depending on the application.

#### Options

- **MST58** | Checking stand including plate (MST-MT58)
- **MST80** | Checking stand for through bores including perforated plate (MST-MT80)
- **MST-MT58** | Plate  $\varnothing 58$  mm for MST58
- **MST-MT80** | Perforated plate  $\varnothing 80$  mm for MST58
- **MST-WA58** | Clamp-on-vee for MST-MT58
- **MST-WA80** | Clamp-on-vee for MST-MT80
- **MST-ZST20** | Connection rod  $\varnothing 20$  mm, standard for SH-T
- **MST-ZST30** | Connection rod  $\varnothing 30$  mm, for SH-BMD30
- **SH-T** | Floating holder



MST58 with table, clamp on vee, split-ball probe, floating holder and digital indicator

## MST102

### Universal Checking stand 0 - 130mm

The **MST102** is designed for handling larger workpieces and offers a continuously adjustable **measuring range from 0–130 mm**. Its 100 × 100 mm measuring plate features a T-slot, allowing the standard vee attachment or various centring devices to be easily mounted according to the application. Precise height positioning is achieved using the  $\varnothing 30$  mm collar equipped with a dial-gauge bracket, ensuring accurate and repeatable adjustment.

The measuring device can be mounted on the stand using either the **MH6-51-MST** indicator holder (without plastic grip) or a floating holder, providing secure and flexible setup options. The MST102 can also be configured with additional accessories such as wider plates (130 mm or 160 mm), jib arms in lengths of 150 mm or 200 mm for accommodating larger components, and BMD floating holders (**SH-BMD30**), further expanding its measurement capability.

#### Options

- **MST102** | Universal stand includes plate (MST-MT102), Jib arm (MST-AA110) & bolt-on-vee
- **MST-MT102** | Plate for MST102 (B=102, L=98 mm)
- **MST-MT130** | Plate for MST102 (B=130, L=100 mm)
- **MST-MT160** | Plate for MST102 (B=160, L=100 mm)
- **MST-WA** | Bolt-on-vee for plates MST-MT102, MT130, MT160
- **MST-AA110** | Jib arm for MST102, L=110
- **MST-AA150** | Jib arm for MST102, L=150
- **MST-AA200** | Jib arm for MST102, L=200
- **MST-AA-BMD** | Jib arm for BMD floating holder (SH-BMD30)
- **MST-AA-BMD-ZH20** | Extension collet  $\varnothing 20$  mm for jib arm (MST-AA-BMD)
- **MST-KR30** | Collar  $\varnothing 30$  mm including dial gauge bracket  $\varnothing 8$  mm
- **MST-KR40** | Collar  $\varnothing 40$  mm
- **MST-L120** | Universal stand including air floating plate  $\varnothing 120$  mm
- **SH-T** | Floating holder



MST102 with split-ball and micro comparator

## SH-T

### Floating Holder

The SH-T floating holder allows a split-ball probe clamped in the **MST58** or **MST102** checking stands to move freely within a horizontal plane, compensating for minor positioning errors during measurement. This floating action enables the probe to naturally align with the true bore axis as it enters, ensuring smooth centring and improved measurement accuracy. The floating range is continuously adjustable from 0 to 1.5 mm and can extend up to 3mm.

An optional version, the SH-T-F, includes an integrated mechanism for regulating measuring pressure, providing enhanced control for sensitive or precision-critical applications.



## MST-WA

### Bolt on Vee

The MST-WA bolt-on vee provides easier and more stable positioning of cylindrical workpieces and is designed for use with the MST-MT102, MST-MT130, and MST-MT160 plates on the **MST102 series checking stand**.

For the MST58 series, clamp-on vee options are available, including the **MST-WA58** and **MST-WA80**, offering the same convenient positioning capability for smaller workpieces.



## MST-MT80

### Perforated plate

The MST-MT80 is an Ø80 mm perforated plate designed for the **MST58 / MST80** checking stand, ideal for measuring through-bores up to Ø13 mm. It is especially suitable for flat workpieces, allowing the probe to engage the entire bore without contacting the platen. This ensures unobstructed access and reliable centring for small internal diameter measurements.



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2026/01/UK