

# mp+tec

## Dial Indicator Stands and Clamping Joints for highest expectations

### Maximum stability at unlimited flexibility!

- High clamping force and stability
- Unlimited freedom of movement
- Central clamping screw for all 5 moving parts
- Universal uses in the mechanics, measuring, photo and positioning technology

### With backlash-free Dial Indicator Holders!

For maximum positioning accuracy!  
Flexible measurement even in the micro range!



SWISS MADE 

mp+tec

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## Dial Indicator Stand Type MS-MU/M2

**Stable | Flexible | Three-Dimensional**  
With **progressive** tightening for **better** handling.

**Dimensions:**  
Overhang arms, without magnet 370 mm  
Magnet (w x h x d) 52 x 60 x 68 mm  
Magnetic force approx. 90 kg



## Dial Indicator Stand Type MS-MU-G/M2

**Version with rubber sleeves  
for use on grinding machines**

Dial Indicator Stand design like type MS-MU/M2.  
The ball joints parts are protected with  
**rubber sleeves against pollution.**



## Dial Indicator Stand Type MS-MU/SF

**Version with Cast Iron Sliding Base  
for use on granite stone plates**

Dial Indicator Stand design like type MS-MU/M2.  
Sliding base with **lapped 3-Point Support** and  
**Face for Parallelism Measurements.**

**Dimensions:** 150 x 150 x 40 mm  
**Weight:** 3 kg (without Dial Indicator Stand)

**Equipment variant:**  
Extension column  $\varnothing$  22 x 160 mm to screw on,  
gives a larger radius of action.

## Dial Indicator Stand Type MS-SU/M1

Small and strong for  
highest quality standards!

- precise
- strong
- highly flexible
- small design
- progressive tightening

**Dimensions:**

Overhang Arms, without Magnet 245 mm

Magnet (w x h x d) 53 x 60 x 36 mm

Magnetic force approx. 50 kg

Also available with bellows as MS-SU-G/M1



## Applications Dial Indicator Stand



Concentricity and axial run-out test

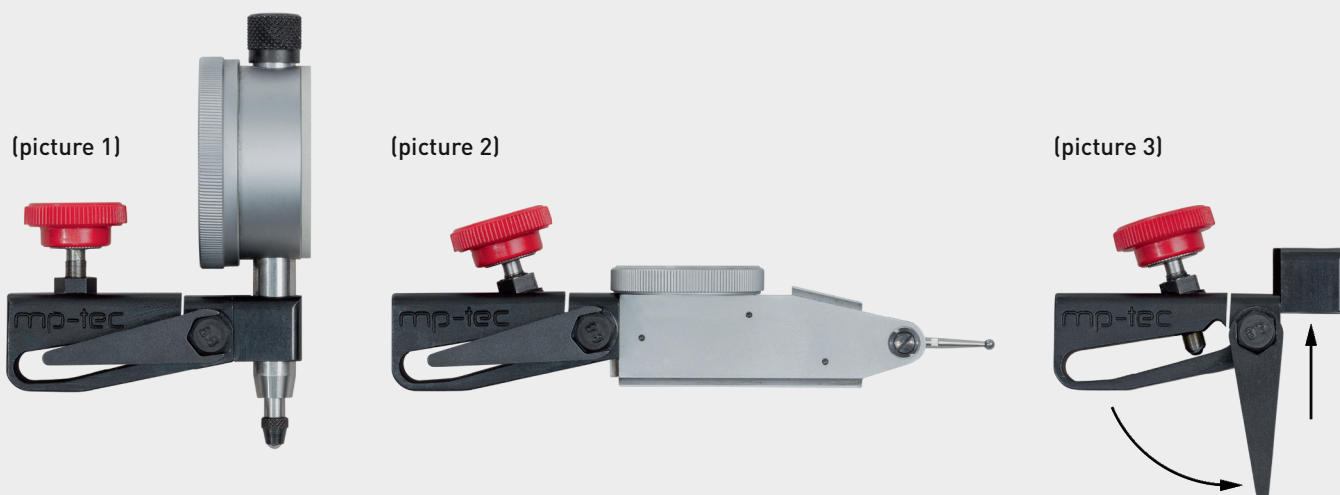


Position check

## mp-tec Articulated Stands with progressive clamping principle

**Basic principle:** By turning the large, clamping knob, each joint will be locked in sequence starting with the lower joint first, then the middle joint and finally the last joint for the dial indicator. This allows a precise positioning of the dial indicator. Unclamping the knob of the progressive stand will result in the release of each joint sequentially in reverse order, thereby preventing an abrupt collapse of the unit and preventing damage to the precision dial indicator.

**Dial Indicator Holder:** This unit is prepared for dial indicators with fine adjustment and clamping of dial indicators with a stem diameter of 8mm (picture 1). For dial indicators with dovetail clamping (picture 2), remove the adapter by releasing the clamping lever (picture 3).



### mp-tec dial indicator clamping adapters, type DGH 2 / DGH 3 / DGH 4

#### Adjustment of the clamping lever to correct factory setting position:

1. Loosen the hex bolt in the clamping lever several turns until the lever rotates freely (picture 4).
2. Free the clamping lever from the hex bolt (picture 5).
3. Tighten the screw in 60° increments until the clamping range between 'released' (vertical) and 'tightened' (horizontal) is about 90° (picture 7). Tighten the clamping lever (picture 6).



(picture 4)  
Releasing of the clamping lever

(picture 5)  
Loosen the hex bolt and re-tighten in 60° increments

(picture 6)  
Tightening of the screw with the clamping lever

(picture 7)



(picture 8)

#### 90° angle for articulated stands with rubber bellows:

Easily locate the exact position of the guide notch by rotating the released ball and socket joint (picture 8).

## Clamping Joints Type SG-MU/Z4-Z3



### The ideal clamping aid for exact positioning in gluing, soldering and welding.

The **Three-Dimensional Clamping Joint** with clamps solves all angle problems in the shortest possible time and enables difficult positioning problems easily without outside help. Compared to the dial indicator stands, you can choose between progressive or synchronous tightening for the Clamping Joints.

**Variants:**

SG-MU/Z3-Z3	SG-MU/M10-Z3	Z3 clamp area 0 bis 75 mm
SG-MU/Z4-Z3	SG-MU/M10-Z4	Z4 clamp area 0 bis 100 mm
SG-MU/Z4-Z4		

## Applications Clamping Joints «The Third Hand»



Holding a micrometer



Holding and positioning of welding parts

## Articulated Arms

### Type GA-SU Type GA-MU

**Maximum clamping force at highest flexibility and indestructible construction for daily use**



The **Three-Dimensional Articulated Arm** can easily be attached to machines or other devices via a thread (M6/M8/M10). Cameras, sensors, readers and much more can be held and quickly positioned.. Our Articulated Arms are available with **progressive** or **synchronous** tightening.

**Progressiv principle:** By turning the large, clamping knob, each joint will be locked in sequence starting with the lower joint first, then the middle joint and finally the last the upper joint. This allows a precise positioning. Unclamping the knob of the progressive stand will result in the release of each joint sequentially in reverse order.

**Synchronous principle:** By turning the large, clamping knob, all joints will be locked together. This allows a fast positioning. Unclamping the knob of the synchronous stand will result in the release of all joints together.

## Our Articulated Arms **in different versions**



For applications with **heavy loads** or **vibrations**, all Articulated Arms can be equipped with central **toothed disks**. This **form-fitting connection** makes any radial displacement of the central joint impossible.

