

# Dial Test Indicators

Comparison measuring instruments which ensure high quality, high accuracy and reliability.



Anti-magnet



Double scale spacing



Long stylus



Jeweled bearing



Compact



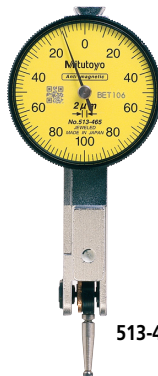
With revolution counter



513-466E



513-464E



513-465E

## SPECIFICATIONS

### Metric

| Order No. |          |          | Graduation | Range  | Accuracy | Dial reading | Measuring force |   |   |   |   |   |   |   |   |
|-----------|----------|----------|------------|--------|----------|--------------|-----------------|---|---|---|---|---|---|---|---|
| Basic set | Plus set | Full set |            |        |          |              |                 |   |   |   |   |   |   |   |   |
| 513-424E  | 513-424A | 513-424T | 0.01mm     | 0.5mm  | 5μm      | 0-25-0       | 0.3N or less    | ✓ | ✓ | — | ✓ | — | — | — | — |
| 513-478E  | —        | —        | 0.01mm     | 0.5mm  | 5μm      | 0-25-0       | 0.3N or less    | ✓ | ✓ | — | ✓ | — | — | — | — |
| 513-414E  | 513-414A | 513-414T | 0.01mm     | 0.5mm  | 10μm     | 0-25-0       | 0.2N or less    | ✓ | ✓ | ✓ | ✓ | — | — | — | — |
| 513-466E  | —        | —        | 0.01mm     | 0.5mm  | 5μm      | 0-25-0       | 0.3N or less    | ✓ | ✓ | — | ✓ | ✓ | — | — | — |
| 513-404E  | 513-404A | 513-404T | 0.01mm     | 0.8mm  | 8μm      | 0-40-0       | 0.3N or less    | ✓ | — | — | ✓ | — | — | — | — |
| 513-474E  | —        | —        | 0.01mm     | 0.8mm  | 8μm      | 0-40-0       | 0.3N or less    | ✓ | — | — | ✓ | — | — | — | — |
| 513-464E  | —        | —        | 0.01mm     | 0.8mm  | 8μm      | 0-40-0       | 0.3N or less    | ✓ | — | — | ✓ | ✓ | — | — | — |
| 513-415E  | 513-415A | 513-415T | 0.01mm     | 1mm    | 10μm     | 0-50-0       | 0.2N or less    | ✓ | — | ✓ | ✓ | — | — | — | — |
| 513-477E  | —        | —        | 0.01mm     | 1mm    | 10μm     | 0-50-0       | 0.2N or less    | ✓ | — | ✓ | ✓ | — | — | — | — |
| 513-426E  | 513-426A | —        | 0.01mm     | 1.5mm  | 8μm      | 0-25-0       | 0.4N or less    | ✓ | ✓ | — | ✓ | — | — | ✓ | — |
| 513-405E  | 513-405A | 513-405T | 0.002mm    | 0.2mm  | 3μm      | 0-100-0      | 0.3N or less    | ✓ | — | — | ✓ | — | — | — | — |
| 513-475E  | —        | —        | 0.002mm    | 0.2mm  | 3μm      | 0-100-0      | 0.3N or less    | ✓ | — | — | ✓ | — | — | — | — |
| 513-465E  | —        | —        | 0.002mm    | 0.2mm  | 3μm      | 0-100-0      | 0.3N or less    | ✓ | — | — | ✓ | ✓ | — | — | — |
| 513-425E  | 513-425A | —        | 0.002mm    | 0.6mm  | 6μm      | 0-100-0      | 0.4N or less    | ✓ | — | — | ✓ | — | — | ✓ | — |
| 513-401E  | —        | —        | 0.001mm    | 0.14mm | 3μm      | 0-70-0       | 0.3N or less    | ✓ | — | — | ✓ | — | — | — | — |
| 513-471E  | —        | —        | 0.001mm    | 0.14mm | 3μm      | 0-70-0       | 0.3N or less    | ✓ | — | — | ✓ | — | — | — | — |

Provided with a ø2mm ruby contact point as a substitute for ø2mm carbide contact point.

### Inch

| Order No. |          |          | Graduation | Range | Accuracy | Dial reading | Measuring force |   |   |   |   |   |   |   |   |
|-----------|----------|----------|------------|-------|----------|--------------|-----------------|---|---|---|---|---|---|---|---|
| Basic set | Plus set | Full set |            |       |          |              |                 |   |   |   |   |   |   |   |   |
| 513-402   | —        | 513-402T | .0005"     | .03"  | ±.0005"  | 0-15-0       | 0.3N or less    | ✓ | — | ✓ | — | — | — | — | — |
| 513-472   | —        | —        | .0005"     | .03"  | ±.0005"  | 0-15-0       | 0.3N or less    | ✓ | — | ✓ | — | — | — | — | — |
| 513-412   | —        | 513-412T | .0005"     | .03"  | ±.0005"  | 0-15-0       | 0.2N or less    | ✓ | ✓ | ✓ | — | — | — | — | — |
| 513-479   | —        | —        | .0005"     | .03"  | ±.0005"  | 0-15-0       | 0.2N or less    | ✓ | ✓ | ✓ | — | — | — | — | — |
| 513-462   | —        | —        | .0005"     | .03"  | ±.0005"  | 0-15-0       | 0.3N or less    | ✓ | — | ✓ | ✓ | — | — | — | — |
| 513-403   | —        | 513-403T | .0001"     | .008" | ±.0001"  | 0-4-0        | 0.3N or less    | ✓ | — | ✓ | — | — | — | — | — |
| 513-473   | —        | —        | .0001"     | .008" | ±.0001"  | 0-4-0        | 0.3N or less    | ✓ | — | ✓ | — | — | — | — | — |
| 513-463   | —        | —        | .0001"     | .008" | ±.0001"  | 0-4-0        | 0.3N or less    | ✓ | — | ✓ | ✓ | — | — | — | — |

Provided with a .079"DIA ruby contact point as a substitute for .079"DIA carbide contact point.

### Metric/inch

| Order No. |          |          | Graduation         | Range            | Accuracy | Dial reading       | Measuring force |   |   |   |   |   |   |   |   |
|-----------|----------|----------|--------------------|------------------|----------|--------------------|-----------------|---|---|---|---|---|---|---|---|
| Basic set | Plus set | Full set |                    |                  |          |                    |                 |   |   |   |   |   |   |   |   |
| 513-409   | —        | 513-409T | 0.002mm,<br>.0001" | 0.2mm,<br>.0075" | 3μm      | 0-10-0,<br>0-3.8-0 | 0.3N or less    | ✓ | ✓ | — | — | — | — | — | — |

### Inch/Metric

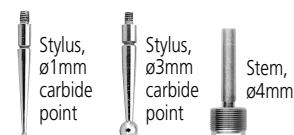
| Order No. |          |          | Graduation        | Range          | Accuracy | Dial reading      | Measuring force |   |   |   |   |   |   |   |   |
|-----------|----------|----------|-------------------|----------------|----------|-------------------|-----------------|---|---|---|---|---|---|---|---|
| Basic set | Plus set | Full set |                   |                |          |                   |                 |   |   |   |   |   |   |   |   |
| 513-406   | —        | 513-406T | .0005",<br>0.01mm | .03",<br>0.7mm | ±.0005"  | 0-15-0,<br>0-35-0 | 0.3N or less    | ✓ | ✓ | — | — | — | — | — | — |

## Set Configuration: Metric and Metric/Inch

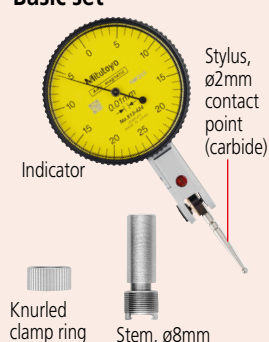
### Full set



### Plus set

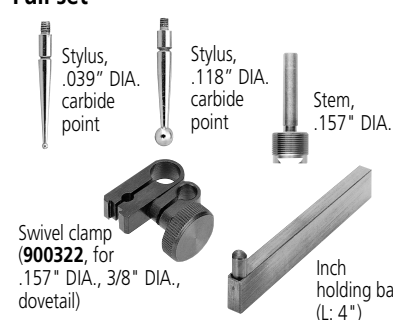


### Basic set



## Set Configuration: Inch and Inch/Metric

### Full set



### Basic set

