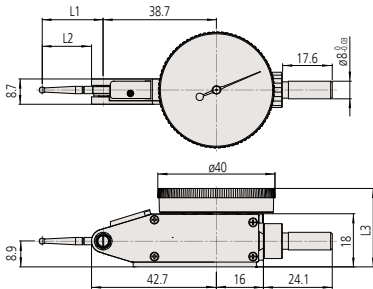




DIMENSIONS

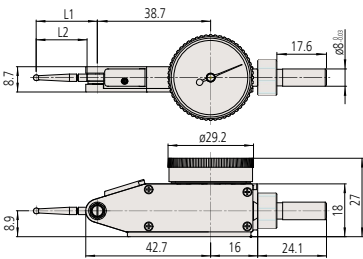
Horizontal

unit: mm



| Order No. | L1 | L2 | L3 |
|-----------------|------|------|----|
| 513-401-10E | | | |
| 513-471-10E | 14.7 | 11.2 | 27 |
| 513-405-10E/A/T | | | |
| 513-475-10E | 18.7 | 15.2 | 28 |
| 513-425-10E/A | | | |
| 513-404-10E/A/T | 20.9 | 17.4 | 27 |
| 513-474-10E | | | |
| 513-424-10E/A/T | 22.2 | 18.7 | 28 |
| 513-426-10E/A | | | |
| 513-478-10E | | | |
| 513-414-10E/A/T | 37.4 | 33.9 | 27 |
| 513-415-10E/A/T | | | |
| 513-477-10E | 44.5 | 41.0 | |

Compact



| Type | Order No. | L1 | L2 |
|---------|-------------|------|------|
| Compact | 513-465-10E | 18.7 | 15.2 |
| | 513-464-10E | 20.9 | 17.4 |
| | 513-466-10E | 22.2 | 18.7 |

Note: A slight difference may occur depending on the center of the contact point, graduation plate, and stem fixing position, etc.

Special Set: 513-908-10E (Metric)

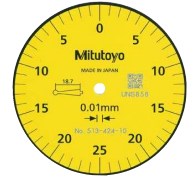
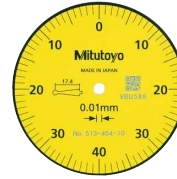
513-404-10E: Dial test indicator
7014-10: Mini magnetic stand

513-907-10E (inch)

513-402-10E: Dial test indicator
7014E-10: Mini magnetic stand

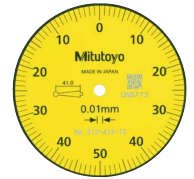
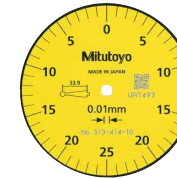


Dial Test Indicator
SERIES 513 — Horizontal Type



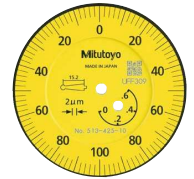
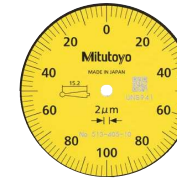
513-404-10E/10A/10T
S Standard
C Carbide contact point

513-424-10E/10A/10T
S Standard
D Double scale spacing
C Carbide contact point



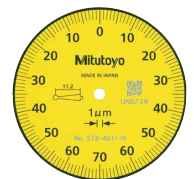
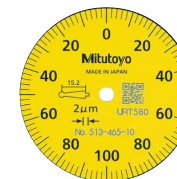
513-414-10E/10A/10T
L Long contact point
C Carbide contact point
D Double scale spacing

513-415-10E/10A/10T
L Long contact point
C Carbide contact point



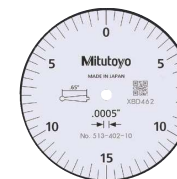
513-405-10E/10A/10T
S Standard
C Carbide contact point

513-425-10E/10A
R With revolution counter
C Carbide contact point



513-465-10E
C Compact
C Carbide contact point

513-401-10E
H High accuracy
C Carbide contact point



513-402-10E/10T
S Standard
C Carbide contact point

513-403-10E/10T
S Standard
C Carbide contact point

Note: 513-4XX-10 is indicated on the dial face. But the Order No. for the Special Set provided with the stem etc. has a suffix (E or A or T) at the end.

Dial Test Indicators

SPECIFICATIONS

| Order No. | | | Graduation (mm) | Range (mm) | Dial reading | Maximum permissible error (MPE)* (µm) | | | | Mass (g) | Measuring force (N) | High accuracy | With revolution counter | Long contact point | Standard | Double scale spacing | Compact | Carbide contact point | Ruby contact point | | |
|-------------|-------------|-------------|-----------------|------------|--------------|---------------------------------------|----------|--------------------|------------|----------|---------------------|---------------|-------------------------|--------------------|----------|----------------------|---------|-----------------------|--------------------|---------------|--------|
| Basic set | Plus set | Full set | | | | Measuring range | One rev. | 10 scale divisions | Hysteresis | | | | | | | | | | | Repeatability | |
| 513-424-10E | 513-424-10A | 513-424-10T | 0.01 | 0.5 | 0-25-0 | 6 | - | 4 | 3 | 45 | 0.3 or less | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 513-478-10E | - | - | | | | | | | | | | | | | | | | | | 10 | - |
| 513-466-10E | - | - | | | | 16 | 10 | 5 | 4 | 3 | 45 | 0.4 or less | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 513-414-10E | 513-414-10A | 513-414-10T | | | | | | | | | | | | | | | | | | 0.8 | 0-40-0 |
| 513-426-10E | 513-426-10A | - | | | | 1.0 | 0-50-0 | 10 | - | 5 | 3 | 45 | 0.2 or less | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 513-404-10E | 513-404-10A | 513-404-10T | | 0.002 | 0-100-0 | | | | | | | | | | | | | | | 4 | - |
| 513-474-10E | - | - | | | | 0.6 | - | 7 | 5 | 4 | 1 | 45 | 0.4 or less | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 513-464-10E | - | - | | 0.001 | 0-70-0 | | | | | | | | | | | | | | | 4 | - |
| 513-415-10E | 513-415-10A | 513-415-10T | | | | - | - | - | - | - | - | 45 | 0.3 or less | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 513-477-10E | - | - | | - | - | | | | | | | | | | | | | | | - | - |
| 513-405-10E | 513-405-10A | 513-405-10T | - | | | - | - | - | - | - | 45 | 0.3 or less | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 513-475-10E | - | - | | - | - | | | | | | | | | | | | | | | - | - |
| 513-465-10E | - | - | - | | | - | - | - | - | - | 45 | 0.3 or less | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 513-425-10E | 513-425-10A | - | | - | - | | | | | | | | | | | | | | | - | - |
| 513-401-10E | - | - | - | | | - | - | - | - | - | 45 | 0.3 or less | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 513-471-10E | - | - | | - | - | | | | | | | | | | | | | | | - | - |

| Order No. | | | Graduation (in) | Range (in) | Dial reading | Maximum permissible error (MPE)* (in) | | | Mass (g) | Measuring force (N) | High accuracy | With revolution counter | Long contact point | Standard | Double scale spacing | Compact | Carbide contact point | Ruby contact point | | | | | | | | | | | | | | | |
|-------------|----------|-------------|-----------------|------------|--------------|---------------------------------------|------------|---------------|----------|---------------------|---------------|-------------------------|--------------------|----------|----------------------|---------|-----------------------|--------------------|--------|------|-------|---------|--------|-------------|----|-------------|---|---|---|---|---|---|---|
| Basic set | Plus set | Full set | | | | One rev. | Hysteresis | Repeatability | | | | | | | | | | | | | | | | | | | | | | | | | |
| 513-402-10E | - | 513-402-10T | 0.0005 | 0.03 | 0-15-0 | ±0.0005 | 0.0002 | ±0.0002 | 45 | 0.3 or less | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | |
| 513-472-10E | - | - | | | | | | | | | | | | | | | | | 0.0005 | 0.08 | 0-4-0 | ±0.0001 | 0.0001 | ±0.00004 | 45 | 0.3 or less | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 513-412-10E | - | 513-412-10T | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 513-479-10E | - | - | | | | | | | | | | | | | | | | | - | - | - | - | - | - | 45 | 0.3 or less | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| 513-462-10E | - | - | - | - | - | - | - | - | 45 | 0.3 or less | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | |
| 513-407-10E | - | 513-407-10T | | | | | | | | | | | | | | | - | - | - | - | - | - | 45 | 0.3 or less | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| 513-403-10E | - | 513-403-10T | - | - | - | - | - | - | 45 | 0.3 or less | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | |
| 513-473-10E | - | - | | | | | | | | | | | | | | | - | - | - | - | - | - | 45 | 0.3 or less | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| 513-463-10E | - | - | - | - | - | - | - | - | 45 | 0.3 or less | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | |

| Order No. | | | Graduation | Range | Dial reading | Maximum permissible error (MPE)* (µm) | | | | Mass (g) | Measuring force (N) | High accuracy | With revolution counter | Long contact point | Standard | Double scale spacing | Compact | Carbide contact point | Ruby contact point |
|-------------|----------|-------------|----------------------|--------------------|-----------------|---------------------------------------|--------------------|------------|---------------|----------|---------------------|---------------|-------------------------|--------------------|----------|----------------------|---------|-----------------------|--------------------|
| Basic set | Plus set | Full set | | | | Measuring range | 10 scale divisions | Hysteresis | Repeatability | | | | | | | | | | |
| 513-409-10E | - | 513-409-10T | 0.002 mm / 0.0001 in | 0.2 mm / 0.0076 in | 0-10-0 / 0-38-0 | 4 | 2 | 3 | 1 | 45 | 0.3 or less | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

| Order No. | | | Graduation | Range | Dial reading | Maximum permissible error (MPE)* (in) | | | Mass (g) | Measuring force (N) | High accuracy | With revolution counter | Long contact point | Standard | Double scale spacing | Compact | Carbide contact point | Ruby contact point |
|-------------|----------|-------------|---------------------|------------------|-----------------|---------------------------------------|------------|---------------|----------|---------------------|---------------|-------------------------|--------------------|----------|----------------------|---------|-----------------------|--------------------|
| Basic set | Plus set | Full set | | | | One rev. | Hysteresis | Repeatability | | | | | | | | | | |
| 513-406-10E | - | 513-406-10T | 0.0005 in / 0.01 mm | 0.03 in / 0.7 mm | 0-15-0 / 0-35-0 | ±0.0005 | 0.0002 | ±0.0002 | 45 | 0.3 or less | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |

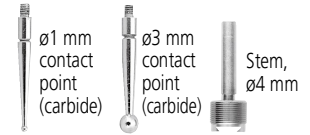
* We guarantee the accuracy of completed products by inspecting them with the dial face facing upward.
Note: Stem with dovetail groove is not included in the mass.

Set Configuration: Metric and Metric/Inch

Full set



Plus set

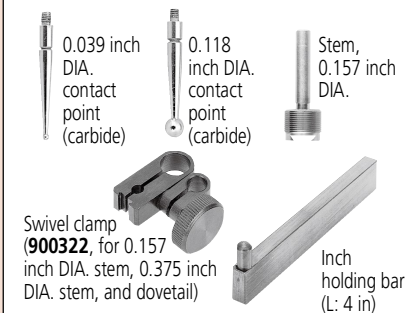


Basic set



Set Configuration: Inch and Inch/Metric

Full set



Basic set

