SPECIFICATIONS


| Order No. |  |  | Graduation | Range | $\begin{gathered} \text { Dial } \\ \text { reading } \end{gathered}$ | Indication accuracy |  |  | Mass | Measuring force |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Basic set | Plus set | Full set |  |  |  | Measuring range | Hysteresis | Repeatability |  |  |  |  |  |  |  |  |  |
| - | 513-442-10A | 513-442-10T |  |  |  |  |  |  |  |  |  | $\checkmark$ |  |  |  | $\checkmark$ |  |
| - | 513-442-16A | 513-442-16T |  |  |  | +0.0005 in |  |  |  | bss |  | $\checkmark$ |  |  |  | $\checkmark$ |  |
| - | $513-446-10 \mathrm{~A}$ | 513-446-10T | 0.0005 in |  |  | $\pm 0.0005$ in | 0.0002 in | 0.0002 in |  | 02N or less |  | $\checkmark$ | , |  |  | $\checkmark$ |  |
| - | 513-446-16A | 513-446-16T |  |  |  |  |  |  | 489 | 0.2N or less |  | $\checkmark$ | , |  |  | $\checkmark$ |  |
| - | $513-443-10 \mathrm{~A}$ | 513-443-10 | 0.0001 in | 0.016 in | 0-4-0 | $\pm 0.0002$ in | 0.0001 in | 0.00004 in |  | 0.3 N or less |  | $\checkmark$ |  |  |  | $\checkmark$ |  |
| - | 513-443-16A | 513-443-16T |  |  |  | t0.0002 m | 0.0001 n | 0.00004 in |  | O.3Norless |  | $\checkmark$ |  |  |  | $\checkmark$ |  |

* Stem with $\varnothing 6$ dovetail groove is not included in the mass.
* Be sure to perform calibration with reference gage, etc. after changing the contact point. The inside parts may be damaged when the contact point is changed due to the breakage. In the case the of the significant deterioration during the operation, repair is required.


## DIMENSIONS



Horizontal ( $20^{\circ}$ Tilted Face) (Dial face inclined $20^{\circ}$, compared with the vertical type.)



513-444-10E/513-444-10A/ 513-444-10T

3 With revolution counter
(๑) Carbide contact point (Anti-magnet)


Graduation: 0.0005 in Range: 0.06 in
513-442-10A/513-442-10T
P) With revolution counter
(1) Carbide contact point (Anti-magnet)


Graduation: 0.0001 in Range: 0.016 in
513-443-10A/513-443-10T
Y) With revolution counter
@
Contact point No. 21CZB064


Carbide contact point (Anti-magnet)


Contact point No. 103011



Graduation: 0.02 mm
Range: 0.4 mm
513-445-10E/513-445-10A/ 513-445-10T

7 With revolution counter
( Carbide contact point (Anti-magnet)


Graduation: 0.0005 in Range: 0.06 in

513-442-16A/513-442-16T
7 With revolution counter
(A) Carbide contact point (Anti-magnet)


Graduation: 0.0005 in Range: 0.06 in

513-446-16A/513-446-16T
7 With revolution counter
!-! ! Long stylus
( Carbide contact point (Anti-magnet)


## Graduation: 0.0001 in

 Range: 0.016 in513-443-16A/513-443-16T
With revolution counter
( Carbide contact point (Anti-magnet)

