

Inside Micrometers

For easy and accurate measurement of inside size and diameter

Tubular Inside Micrometers SERIES 133 — Single Rod Type

- Standard single rod type inside micrometer.
- Carbide measuring faces.
- The sleeve is rotated to adjust the reference point adjustment when setting to a length standard.
- Optional Setting Rings (nominal size below 300 mm), CERA Inside Micro Checker and Gauge Block Accessory Sets are available as reference gages datum adjustment. (Refer

to pages C-47, C-26, and E-17 to E20 for details)



SPECIFICATIONS

Metric		Individual		
Order No.	Range (mm)	Graduation (mm)	Maximum permissible error J_{MPE} (μm)	
133-143	50 - 75	0.01	± 3	
133-144	75 - 100		± 4	
133-145	100 - 125		± 5	
133-146	125 - 150			
133-147	150 - 175			
133-148	175 - 200			
133-149	200 - 225			
133-150	225 - 250			
133-151	250 - 275		± 6	
133-152	275 - 300			
133-153	300 - 325			
133-154	325 - 350			± 7
133-155	350 - 375			
133-156	375 - 400			
133-157	400 - 425		± 8	
133-158	425 - 450			
133-159	450 - 475			
133-160	475 - 500		± 9	
133-161	500 - 525			
133-162	525 - 550			
133-163	550 - 575	± 10		
133-164	575 - 600			
133-165	600 - 625			
133-166	625 - 650	± 11		
133-167	650 - 675			
133-168	675 - 700			
133-169	700 - 725	± 12		
133-170	725 - 750			
133-171	750 - 775			
133-172	775 - 800	± 13		
133-173	800 - 825			
133-174	825 - 850			
133-175	850 - 875	± 14		
133-176	875 - 900			
133-177	900 - 925			
133-178	925 - 950	± 15		
133-179	950 - 975			
133-180	975 - 1000		± 16	

Inch		Individual	
Order No.	Range (in)	Graduation (in)	Maximum permissible error J_{MPE} (in)
133-223	2 - 3	0.001	± 0.00015
133-224	3 - 4		± 0.0002
133-225	4 - 5		± 0.00025
133-226	5 - 6		
133-227	6 - 7		
133-228	7 - 8		
133-229	8 - 9		
133-230	9 - 10		
133-231	10 - 11		± 0.0003
133-232	11 - 12		

Single Rod Type Inside Micrometer Set



133-902

Metric Micrometer set			Inch Micrometer set		
Order No.	Range (mm)	Models included	Order No.	Range (in)	Models included
133-901	50 - 150 (4 heads/set)	133-143 133-144 133-145 133-146 with fitted case	133-903	2 - 6 (4 heads/set)	133-223 133-224 133-225 133-226 with fitted case
133-902	50 - 300 (10 heads/set)	133-143 133-144 133-145 133-146 133-147 133-148 133-149 133-150 133-151 133-152 with fitted case	133-904	2 - 12 (10 heads/set)	133-223 133-224 133-225 133-226 133-227 133-228 133-229 133-230 133-231 133-232 with fitted case

DIMENSIONS

