



Horizontal (Standard model)

SPECIFICATIONS

Metric

Order No.			Graduation	Range	Dial reading	Indication accuracy				Mass	Measuring force	High accuracy	With revolution counter	Long stylus	Standard	Double scale spacing	Compact	Carbide contact point (Anti-magnet)	Ruby contact point (non-magnet)
Basic set	Plus set	Full set				Measuring range	10 scale divisions	Hysteresis	Repeatability										
513-424-10E	513-424-10A	513-424-10T	0.01 mm	0.5 mm	0-25-0	6 µm	5 µm	4 µm	3 µm	45g	0.3N or less				✓	✓		✓	
513-478-10E	–	–				6 µm				41g	0.3N or less				✓	✓		✓	✓
513-466-10E	–	–		0.8 mm	0-40-0	9 µm		4 µm							✓			✓	
513-404-10E	513-404-10A	513-404-10T		0.5 mm	0-25-0	10 µm		5 µm		45g	0.2N or less			✓		✓		✓	
513-414-10E	513-414-10A	513-414-10T		0.8 mm	0-40-0	9 µm		4 µm		41g	0.3N or less				✓			✓	✓
513-474-10E	–	–		1.0 mm	0-50-0	10 µm		5 µm			0.2N or less			✓				✓	
513-464-10E	–	–		1.5 mm	0-25-0	16 µm					0.4N or less	✓				✓		✓	
513-415-10E	513-415-10A	513-415-10T																	✓
513-477-10E	–	–																	✓
513-426-10E	513-426-10A	–																	✓
543-405-10E	543-405-10A	543-405-10T	0.002 mm	0.2 mm	0-100-0		2 µm	3 µm	1 µm	45g	0.3N or less	✓			✓			✓	
513-471-10E	–	–	0.001 mm	0.14 mm	0-70-0	4 µm													✓
513-475-10E	–	–		0.2 mm				4 µm			0.4N or less		✓					✓	✓
513-425-10E	513-425-10A	–	0.002 mm	0.6 mm	0-100-0	7 µm				41g						✓		✓	
513-465-10E	–	–		0.2 mm				3 µm		45g	0.3N or less	✓				✓		✓	
513-401-10E	–	–	0.001 mm	0.14 mm	0-70-0	4 µm												✓	

Inch

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Basic set	Plus set	Full set				One rev.	Hysteresis	Repeatability										
513-402-10E	–	513-402-10T	0.0005 in	0.03 in	0-15-0	±0.0005 in	0.0002 in	0.0002 in	45g	0.3N or less				✓			✓	✓
513-472-10E	–	–								0.2N or less			✓				✓	
513-412-10E	–	513-412-10T											✓				✓	✓
513-479-10E	–	–							41g							✓	✓	
513-462-10E	–	–	0.0001 in	0.008 in	0-4-0	±0.0001 in	0.0001 in	0.00004 in	45g	0.3N or less				✓			✓	✓
513-403-10E	–	513-403-10T												✓			✓	
513-473-10E	–	–							41g							✓	✓	
513-463-10E	–	–														✓	✓	

Metric/Inch

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Basic set	Plus set	Full set				Measuring range	10 scale divisions	Hysteresis	Repeatability										
513-409-10E	–	513-409-10T	0.002mm / 0.0001 in	0.2mm / 0.0076 in	0-10-0 / 0-38-0	4µm	2µm	3µm	1µm	45g	0.3N or less		✓					✓	✓

Inch/Metric

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Basic set	Plus set	Full set				Measuring range	Hysteresis	Repeatability										
513-406-10E	–	513-406-10T	0.0005 in / 0.01mm	0.03 in / 0.7mm	0-15-0 / 0-35-0	±0.0005 in	0.0002 in	0.0002 in	45g	0.3N or less		✓					✓	✓

* Stem with ø6 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.