

VERNIER BORE GAGES

78XT BORE GAGES

.080-12"/1-300MM

The 78XT Bore Gages feature extended travel, reducing the need to exchange anvils. The ground contact points seat the internal micrometer faster and more accurately than the spherical contacts found in other gages. These rugged and accurate internal micrometers are available individually or in economical sets from .080-12" (2-300mm).

78XT Bore Gages, 2-Point Contact (.080-.250" Range)					
Cat. No.	EDP	Range (in)	Accuracy (in)	Approximate Measuring Depth (in)	Setting Ring Diameter (in)
78XTZ-100	68124	.080-.100	0.00015	3/8	.100
78XTZ-120	68125	.100-.120			
78XTZ-160	68126	.120-.160	0.00015	15/32	.160
78XTZ-200	68127	.160-.200	0.00015	3/4	.160
78XTZ-250	68128	.200-.250			.200
78XT Bore Gages, 3-Point Contact (1/4-12" Range)					
Cat. No.	EDP	Range (in)	Accuracy (in)	Approximate Measuring Depth (in)	Setting Ring Diameter (in)
78XTZ-312	68129	1/4-5/16			.3125
78XTZ-375	68130	5/16-3/8	.00015	2-1/4	.3125
78XTZ-500	68131	3/8-1/2			.500
78XTZ-625	68132	1/2-5/8	.00015	2-7/16	.500
78XTZ-750	68133	5/8-3/4			.750
78XTZ-1	68134	3/4-1	.00015	2-5/8	.750
78XTZ-138	67674	1-1-3/8			1.375
78XTZ-2	67675	1-3/8-2	.00015	3-1/16	1.375
78XTZ-258	67676	2-2-5/8	.00020	3-1/16	2.625
78XTZ-314	67677	2-5/8-3-1/4			
78XTZ-4	67678	3-1/4-4	.00020	4	3.250
78XTZ-5	67679	4-5	.00025	4	5.0
78XTZ-6	67680	5-6	.00025	4-1/2	5.0
78XTZ-7	67681	6-7			7.0
78XTZ-8	67682	7-8	.00030	4-1/2	7.0
78XTZ-9	67857	8-9			9.0
78XTZ-10	67858	9-10	.00030	4-5/8	9.0
78XTZ-11	67859	10-11			
78XTZ-12	67860	11-12	.00035	4-5/8	11.0

78XT Sets, 2-Point Contact (.250" Range)				
Cat. No.	EDP	Range (in)	Number of Heads	Number of Rings
S78XTBZ	68152	.120-.250	3	2
78XT Sets, 3-Point Contact (1/4-4" Range)				
Cat. No.	EDP	Range (in)	Number of Heads	Number of Rings
S78XTCZ	68153	1/4-3/8	2	1
S78XTDZ	68154	3/8-3/4	3	2
S78XTEZ	67683	3/4-2	3	2
S78XTFZ	67684	2-4	3	2



78XTZ-2

FEATURES

- Wide measurement range without changing anvils
- Resolution from .0001" (0.0025mm) on the 2-point contact tool up to 3/4" (20mm) and .00025" (0.005mm) on the 3-point contact tools ranging from 3/4"-12" (20mm - 300mm)
- Tungsten carbide measuring faces on all 3-point heads above 1/2" (12.5mm)
- Ratchet stop ensures consistent measurements
- Self-centering contacts for true readings
- Blind bore measuring capability above 1/2" (12.5mm) diameter
- Extensions available up to 6" (150mm) for deep hole measuring
- Setting rings included
- Depth stop/collar also available for .080"-.250" (1-6mm) range
- Each micrometer bore gage is furnished in a case, complete with setting ring, contacts, wrenches, and instructions



78XTZ-138 measuring a bore.



ELECTRONIC BORE GAGES

78MXT BORE GAGES

See specifications on previous page

78MXT Bore Gages, 2-Point Contact (1-6mm Range)

Cat. No.	EDP	Range (mm)	Accuracy (mm)	Approximate Measuring Depth (mm)	Setting Ring Dia (mm)
78MXTZ-1.15	68135	1-1.15	0.003	6	1
78MXTZ-1.3	68136	1.15-1.3	0.003	6	1.3
78MXTZ-1.5	68137	1.3-1.5	0.003	6	1.5
78MXTZ-1.75	68138	1.5-1.75	0.003	8	1.75
78MXTZ-2	68139	1.75-2	0.003	8	1.75
78MXTZ-2.5	68140	2-2.5	0.004	9	2.5
78MXTZ-3	68141	2.5-3	0.004	12	4
78MXTZ-4	68142	3-4	0.004	12	4
78MXTZ-5	68143	4-5	0.004	18	4
78MXTZ-6	68144	5-6	0.004	18	5

78MXT Bore Gages, 3-Point Contact (6-300mm Range)

Cat. No.	EDP	Range (mm)	Accuracy (mm)	Approximate Measuring Depth (mm)	Setting Ring Dia (mm)
78MXTZ-8	68145	6-8mm	0.004	58	8
78MXTZ-10	68146	8-10mm	0.004	58	12.5
78MXTZ-12.5	68147	10-12.5mm	0.004	58	12.5
78MXTZ-16	68148	12.5-16mm	0.004	62	20
78MXTZ-20	68149	16-20mm	0.004	62	20
78MXTZ-25	68150	20-25mm	0.004	66	35
78MXTZ-35	67861	25-35mm	0.004	66	35
78MXTZ-50	67862	35-50mm	0.004	80	65
78MXTZ-65	67863	50-65mm	0.005	80	80
78MXTZ-80	68650	65-80mm	0.005	100	125
78MXTZ-100	67864	80-100mm	0.006	115	175
78MXTZ-125	67865	100-125mm	0.006	115	225
78MXTZ-150	67866	125-150mm	0.007	118	275
78MXTZ-175	67867	150-175mm	0.007	118	275
78MXTZ-200	67868	175-200mm	0.008	118	275
78MXTZ-225	67869	200-225mm	0.008	118	275
78MXTZ-250	67870	225-250mm	0.009	118	275
78MXTZ-275	67871	250-275mm	0.009	118	275
78MXTZ-300	67872	275-300mm	0.009	118	275

78MXT Sets, 2-Point Contact (2-6mm Range)

Cat. No.	EDP	Range (mm)	Number of Heads	Number of Rings
S78MXTAZ	68155	2-3	2	1
S78MXTBZ	68156	3-6	3	2

78XT Sets, 3-Point Contact (6-100mm Range)

Cat. No.	EDP	Range (mm)	Number of Heads	Number of Rings
S78MXTCZ	68157	6-10	2	1
S78MXTDZ	68158	10-20	3	2
S78MXTFZ	67873	20-50	3	2
S78MXTFZ	67874	50-100	3	2



780MXTZ-150 in case

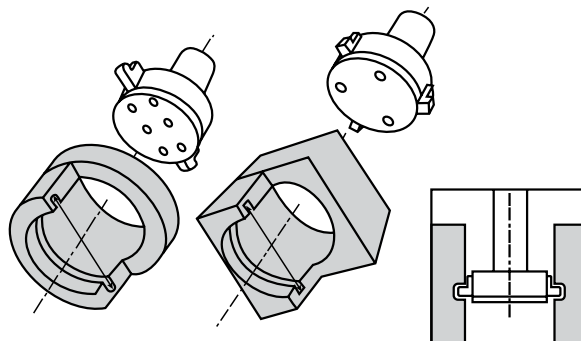


SPECIAL BORE GAGE MEASURING HEADS

We offer several configurations of special purpose measuring heads for 780, and 781 Bore Gages, available by special order. Some, but not all, of these will also work with the 78 Bore Gages.

GROOVE MEASURING HEADS

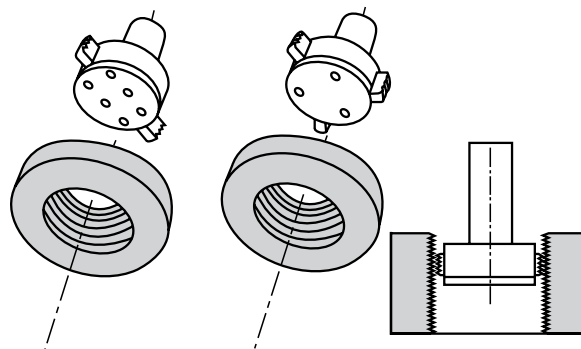
- **Groove.** Available as a 2-point system for ovality measurement.
- Various 2-point anvil forms available with diameters from .080-12" (2-300mm).
- **Grooves.** Available as a 3-point system
- Various 3-point anvil forms available for diameters from .250-12" (6-300mm).



THREAD MEASURING HEADS

Thread Measuring Heads are available as two point system from 8 to 5/16" (M4-8mm) and three point system from 3/8"-12" (9.5-300mm). Most forms available including UNC, UNF, UNJ, UNS, Buttress, Acme, Multi-start, LH and RH.

- **Thread.** Thread forms available as a 3-point system.
- **Internal.** To measure effective (functional) diameter, pitch diameter.
- Available as two point system from 8 to 5/16" (M4-8mm) Available as three point system from 3/8"-12" (9.5-300mm).
- Most forms available including UNC, UNF, UNJ, UNS, Buttress, Acme, Multi-start, LH and RH.



SPHERICAL RADIUS MEASURING HEADS

- **Spherical Radius.** Available as 2-point to measure ovality or with 3-point contact.
- Available with diameters from .236-3.93" (6-100mm).
- **3-Point Spherical.** Available in .118-12" (3-300mm) range.
- Gives good repeatability even when somewhat out of line with bore center.

