



Ultima – Electronic Bore Gauge

The **Bowers Ultima** electronic bore gauging system offers a choice of resolutions up to 0.0001mm. Featuring FASTFIT twin-start threads for quick fitting of measuring heads and extended ranges (above 14mm) the Ultima system's simple lever operation and constant measuring force provide outstanding repeatability and ease of use.



Features

- Measuring range 2 – 310mm (0.080" – 12.000")
- Resolution: 0.0001mm (0.00001")
- Constant spring pressure for top repeatability
- Good positive feel as heads self-centre in the bore
- Bowers Fastfit measuring heads for rapid changeover
- UKAS certificates standard for all measuring heads
- UKAS certificates standard for all setting rings
- Multi-probe option: If you already have your own measuring probes and readouts in most cases these can be matched to the Ultima system, representing a saving for you
- Ceramic anvils on heads above 12mm
- Blind-bore measurement standard above 12mm
- Possible to connect several probe holders to one single readout to measure different bore sizes at one measuring station
- The complete range of Bowers special heads is available for the Ultima (grooves, threads, splines, deep-bores etc)

Ultima

TECHNICAL SPECIFICATIONS:

Head Code No	Range		Accuracy		Repeat		Measuring Depth		Code No	Setting Ring		Holder Type
	mm	inch	mm	inch	mm	inch	mm	inch		mm	inch	
ULH6	2.0-2.5	0.078 - 0.098	0.0010	0.00004	≤ 0.0010	≤ 0.00004	9	0.35	ULR2	2.5	0.098	PH2
ULH7	2.5-3.0	0.098 - 0.118	0.0010	0.00004	≤ 0.0010	≤ 0.00004	9	0.35	ULR2	2.5	0.098	PH2
ULH8	3.0-4.0	0.118 - 0.157	0.0010	0.00004	≤ 0.0010	≤ 0.00004	12	0.47	ULR4	4	0.157	PH2
ULH9	4.0-5.0	0.157 - 0.197	0.0010	0.00004	≤ 0.0010	≤ 0.00004	18	0.71	ULR5	5	0.197	PH2
ULH10	5.0-6.0	0.197 - 0.236	0.0010	0.00004	≤ 0.0010	≤ 0.00004	18	0.71	ULR5	5	0.197	PH2
ULH11	6-8	0.236 - 0.315	0.0010	0.00004	≤ 0.0010	≤ 0.00004	60	2.36	ULR8	8	0.315	PH3
ULH12	8-10	0.315 - 0.393	0.0010	0.00004	≤ 0.0010	≤ 0.00004	60	2.36	ULR8	8	0.315	PH3
ULH13	10-12	0.393 - 0.472	0.0010	0.00004	≤ 0.0010	≤ 0.00004	61	2.40	ULR12	12	0.472	PH3
ULH14	12-14	0.472 - 0.550	0.0010	0.00004	≤ 0.0010	≤ 0.00004	61	2.40	ULR12	12	0.472	PH3
ULH15	14-17	0.550 - 0.670	0.0010	0.00004	≤ 0.0010	≤ 0.00004	61	2.40	ULR17	17	0.670	PH3
ULH16	17-20	0.670 - 0.787	0.0010	0.00004	≤ 0.0010	≤ 0.00004	61	2.40	ULR17	17	0.670	PH3
ULH17	20-24	0.787 - 0.945	0.0010	0.00004	≤ 0.0010	≤ 0.00004	69	2.72	ULR24	24	0.945	PH4
ULH18	24-28	0.945 - 1.100	0.0010	0.00004	≤ 0.0010	≤ 0.00004	69	2.72	ULR24	24	0.945	PH4
ULH19	28-32	1.100 - 1.260	0.0010	0.00004	≤ 0.0010	≤ 0.00004	69	2.72	ULR32	32	1.260	PH4
ULH20	32-38	1.260 - 1.500	0.0010	0.00004	≤ 0.0010	≤ 0.00004	72	2.83	ULR32	32	1.260	PH4
ULH21	38-44	1.500 - 1.730	0.0010	0.00004	≤ 0.0010	≤ 0.00004	72	2.83	ULR44	44	1.730	PH4
ULH22	44-50	1.730 - 1.970	0.0010	0.00004	≤ 0.0010	≤ 0.00004	72	2.83	ULR44	44	1.730	PH4
ULH23	50-60	1.970 - 2.360	0.0015	0.00006	≤ 0.0010	≤ 0.00004	80	3.15	ULR60	60	2.360	PH4
ULH24	60-70	2.360 - 2.756	0.0015	0.00006	≤ 0.0010	≤ 0.00004	80	3.15	ULR60	60	2.360	PH4
ULH25	70-80	2.756 - 3.150	0.0015	0.00006	≤ 0.0010	≤ 0.00004	80	3.15	ULR80	80	3.150	PH4
ULH26	80-90	3.150 - 3.543	0.0015	0.00006	≤ 0.0010	≤ 0.00004	80	3.15	ULR80	80	3.150	PH4
ULH27	90-100	3.543 - 3.940	0.0015	0.00006	≤ 0.0010	≤ 0.00004	80	3.15	ULR100	100	3.940	PH4
ULH28	100-110	3.940 - 4.330	0.0015	0.00006	≤ 0.0010	≤ 0.00004	80	3.15	ULR100	100	3.940	PH5
ULH29	110-120	4.330 - 4.725	0.0015	0.00006	≤ 0.0010	≤ 0.00004	80	3.15	ULR120	120	4.725	PH5
ULH30	120-130	4.725 - 5.120	0.0015	0.00006	≤ 0.0010	≤ 0.00004	80	3.15	ULR120	120	4.725	PH5
ULH31	130-140	5.120 - 5.510	0.0015	0.00006	≤ 0.0010	≤ 0.00004	80	3.15	ULR140	140	5.510	PH5
ULH32	140-150	5.510 - 5.900	0.0015	0.00006	≤ 0.0010	≤ 0.00004	80	3.15	ULR140	140	5.510	PH5
ULH33	150-160	5.900 - 6.300	0.0015	0.00006	≤ 0.0010	≤ 0.00004	80	3.15	ULR160	160	6.300	PH5
ULH34	160-170	6.300 - 6.690	0.0015	0.00006	≤ 0.0010	≤ 0.00004	80	3.15	ULR160	160	6.300	PH5
ULH35	170-180	6.690 - 7.090	0.0015	0.00006	≤ 0.0010	≤ 0.00004	80	3.15	ULR180	180	7.090	PH5
ULH36	180-190	7.090 - 7.480	0.0015	0.00006	≤ 0.0010	≤ 0.00004	80	3.15	ULR180	180	7.090	PH5
ULH37	190-200	7.480 - 7.875	0.0015	0.00006	≤ 0.0010	≤ 0.00004	80	3.15	ULR200	200	7.875	PH5
ULH38	200-210	7.875 - 8.270	0.0015	0.00006	≤ 0.0010	≤ 0.00004	80	3.15	ULR200	200	7.875	PH5
ULH39	210-220	8.270 - 8.661	0.0020	0.00008	≤ 0.0020	≤ 0.00008	80	3.15	ULR220	220	8.661	PH5
ULH40	220-230	8.661 - 9.055	0.0020	0.00008	≤ 0.0020	≤ 0.00008	80	3.15	ULR220	220	8.661	PH5
ULH41	230-240	9.055 - 9.449	0.0020	0.00008	≤ 0.0020	≤ 0.00008	80	3.15	ULR240	240	9.449	PH5
ULH42	240-250	9.449 - 9.842	0.0020	0.00008	≤ 0.0020	≤ 0.00008	80	3.15	ULR240	240	9.449	PH5
ULH43	250-260	9.842 - 10.236	0.0020	0.00008	≤ 0.0020	≤ 0.00008	80	3.15	ULR260	260	10.236	PH5
ULH44	260-270	10.236 - 10.630	0.0020	0.00008	≤ 0.0020	≤ 0.00008	80	3.15	ULR260	260	10.236	PH5
ULH45	270-280	10.630 - 11.024	0.0020	0.00008	≤ 0.0020	≤ 0.00008	80	3.15	ULR280	280	11.024	PH5
ULH46	280-290	11.024 - 11.417	0.0020	0.00008	≤ 0.0020	≤ 0.00008	80	3.15	ULR280	280	11.024	PH5
ULH47	290-300	11.417 - 11.811	0.0020	0.00008	≤ 0.0020	≤ 0.00008	80	3.15	ULR300	300	11.811	PH5
ULH48	300-310	11.811 - 12.200	0.0020	0.00008	≤ 0.0020	≤ 0.00008	80	3.15	ULR300	300	11.811	PH5



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SETS

USET2	2-6
USET3	6-10
USET4	10-20
USET7	6-20
USET8	20-50
USET9	50-100
USET10	20-100

Sets including Sylvac probe holder with probe, digital readout, measuring heads, setting rings and full UKAS-certification.

Ultima probe holders are also available for customers who already have digital readouts made by other manufacturers.



PROBE HOLDERS INCLUDING SYLVAC TRANSDUCER PROBE

PH2	2-6
PH3	6-20
PH4	20-100
PH5	100-310

ULTIMA STANDARD EXTENSIONS

UEXT0200	63mm for heads 6-10mm
UEXT0300	75mm for heads 10-12mm
UEXT0001	100mm for heads 12-20mm
UEXT0002	150mm for heads 20-50mm
UEXT0004	150mm for heads 50 + mm

Extensions can be screwed together for deeper bores.

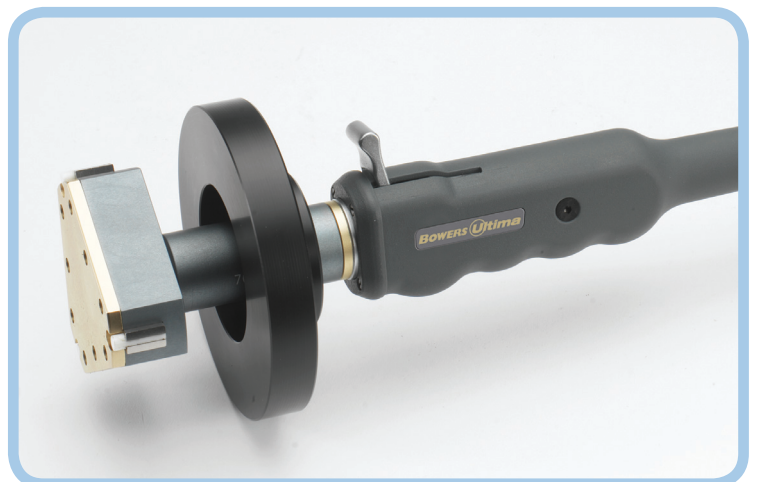
ULTIMA SHORT EXTENSIONS 50MM

UXSH4	50mm for heads 20-50mm
UXSH5	50mm for heads 50 + mm

Extensions can be screwed together for deeper bores.

DIGITAL READOUTS

30-804-1050	D50S Digital Readout Unit
30-804-1080	D80S Digital Readout Unit
30-904-1101	D102 2-Channel Unit
30-904-1108	D108 8-Channel Unit
30-904-4101	Foot Pedal for D80S



DEPTH STOPS AVAILABLE FOR ALL HEADS

