

**Zoom 70 SPECIFICATIONS \***

Z70-SPE.XLS

Zoom Auxiliary		0.38 X TUBE		0.5 X TUBE		0.67 X TUBE		1.0 X TUBE		1.5 X TUBE		2.0 X TUBE	
		LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH
0.18 29-20-09 w/o spa WD: 476mm	NA	0.0043	0.015	0.0043	0.015	0.0043	0.015	0.0043	0.015	0.0043	0.015	0.0043	0.015
	MAG	0.051	0.36	0.068	0.47	0.091	0.63	0.14	0.94	0.20	1.4	0.27	1.9
	DOF	29.2	2.6	29.2	2.6	29.2	2.6	29.2	2.6	29.2	2.6	29.2	2.6
	F. 1/4"	53.1 x 71.0	7.6 x 10.1	40.4 x 54.0	5.7 x 7.7	30.1 x 40.3	4.3 x 5.8	20.2 x 27.0	2.9 x 3.8	13.4 x 18.0	1.9 x 2.5	10.1 x 13.5	1.4 x 1.9
	O. 1/3"	70.0 x 93.4	10.0 x 13.4	53.2 x 71.0	7.6 x 10.1	39.9 x 53.2	5.7 x 7.6	26.6 x 35.5	3.8 x 5.0	17.7 x 23.6	2.5 x 3.3	13.3 x 17.7	1.9 x 2.5
V. 1/2"			71.0 x 94.7	10.1 x 13.5	53.2 x 70.7	7.6 x 10.1	35.5 x 47.3	5.0 x 6.7	23.6 x 31.5	3.3 x 4.5	17.7 x 23.6	2.5 x 3.3	
mm 2/3"					72.9 x 97.6	10.4 x 13.9	48.8 x 65.1	7.0 x 9.3	32.5 x 43.4	4.6 x 6.2	24.4 x 32.5	3.5 x 4.6	
0.25 29-20-09 WD: 315mm	NA	0.0060	0.020	0.0060	0.020	0.0060	0.020	0.0060	0.020	0.0060	0.020	0.0060	0.020
	MAG	0.071	0.50	0.094	0.66	0.13	0.88	0.19	1.3	0.28	2.0	0.38	2.6
	DOF	15.2	1.4	15.2	1.4	15.2	1.4	15.2	1.4	15.2	1.4	15.2	1.4
	F. 1/4"	38.2 x 51.1	5.4 x 7.3	29.0 x 38.8	4.1 x 5.5	21.7 x 29.1	3.1 x 4.1	14.5 x 19.4	2.0 x 2.7	9.7 x 12.9	1.3 x 1.8	7.2 x 9.7	1.0 x 1.3
	O. 1/3"	50.4 x 67.2	7.2 x 9.6	38.3 x 51.1	5.4 x 7.2	28.7 x 38.3	4.1 x 5.5	19.1 x 25.5	2.7 x 3.6	12.7 x 17.0	1.8 x 2.4	9.5 x 12.7	1.3 x 1.8
V. 1/2"			51.1 x 68.1	7.2 x 9.7	38.3 x 50.9	5.5 x 7.3	25.5 x 34.0	3.6 x 4.8	17.0 x 22.7	2.4 x 3.2	12.7 x 17.0	1.8 x 2.4	
mm 2/3"					52.5 x 70.0	7.5 x 10.0	35.1 x 46.8	5.0 x 6.7	23.4 x 31.2	3.3 x 4.4	17.5 x 23.4	2.5 x 3.3	
0.5 29-20-38 WD: 178mm	NA	0.012	0.040	0.012	0.040	0.012	0.040	0.012	0.040	0.012	0.040	0.012	0.040
	MAG	0.14	1.0	0.19	1.3	0.25	1.8	0.38	2.6	0.56	3.9	0.75	5.2
	DOF	3.8	0.34	3.8	0.34	3.8	0.34	3.8	0.34	3.8	0.34	3.8	0.34
	F. 1/4"	19.1 x 25.5	2.7 x 3.6	14.5 x 19.4	2.0 x 2.7	10.9 x 14.5	1.5 x 2.0	7.2 x 9.7	1.0 x 1.3	4.8 x 6.4	0.69 x 0.92	3.6 x 4.8	0.52 x 0.69
	O. 1/3"	25.2 x 33.6	3.6 x 4.8	19.1 x 25.5	2.7 x 3.6	14.3 x 19.1	2.0 x 2.6	9.5 x 12.7	1.3 x 1.8	6.3 x 8.5	0.91 x 1.2	4.7 x 6.3	0.68 x 0.91
V. 1/2"			25.5 x 34.0	3.6 x 4.8	19.1 x 25.5	2.6 x 3.5	12.7 x 17.0	1.8 x 2.4	8.5 x 11.3	1.2 x 1.6	6.3 x 8.5	0.91 x 1.2	
mm 2/3"					26.3 x 36.1	3.6 x 4.8	17.5 x 23.4	2.5 x 3.3	11.7 x 15.6	1.6 x 2.2	8.7 x 11.7	1.2 x 1.6	
0.75 29-20-39 WD: 114mm	NA	0.018	0.060	0.018	0.060	0.018	0.060	0.018	0.060	0.018	0.060	0.018	0.060
	MAG	0.21	1.5	0.28	2.0	0.38	2.6	0.56	3.9	0.85	5.9	1.1	7.9
	DOF	1.7	0.15	1.7	0.15	1.7	0.15	1.7	0.15	1.7	0.15	1.7	0.15
	F. 1/4"	12.7 x 17.0	1.8 x 2.4	9.7 x 12.9	1.3 x 1.8	7.2 x 9.7	1.0 x 1.3	4.8 x 6.4	0.69 x 0.92	3.2 x 4.2	0.46 x 0.62	2.4 x 3.2	0.34 x 0.46
	O. 1/3"	16.8 x 22.4	2.4 x 3.2	12.7 x 17.0	1.8 x 2.4	9.5 x 12.7	1.3 x 1.8	6.3 x 8.5	0.91 x 1.2	4.2 x 5.6	0.61 x 0.81	3.2 x 4.2	0.45 x 0.61
V. 1/2"			17.0 x 22.7	2.4 x 3.2	12.7 x 17.0	1.8 x 2.4	8.5 x 11.3	1.2 x 1.6	5.6 x 7.5	0.81 x 1.0	4.2 x 5.6	0.61 x 0.81	
mm 2/3"					17.5 x 23.3	2.5 x 3.3	11.7 x 15.6	1.6 x 2.2	7.7 x 10.3	1.1 x 1.4	5.8 x 7.8	0.84 x 1.1	
1.0 WD: 89mm	NA	0.024	0.080	0.024	0.080	0.024	0.080	0.024	0.080	0.024	0.080	0.024	0.080
	MAG	0.29	2.0	0.38	2.6	0.50	3.5	0.75	5.2	1.1	7.9	1.5	10.5
	DOF	0.95	0.085	0.95	0.085	0.95	0.085	0.95	0.085	0.95	0.085	0.95	0.085
	F. 1/4"	9.5 x 12.7	1.3 x 1.8	7.2 x 9.7	1.0 x 1.3	5.4 x 7.2	0.78 x 1.0	3.6 x 4.8	0.52 x 0.69	2.4 x 3.2	0.34 x 0.46	1.8 x 2.4	0.26 x 0.34
	O. 1/3"	12.6 x 16.8	1.8 x 2.4	9.5 x 12.7	1.3 x 1.8	7.1 x 9.5	1.0 x 1.3	4.7 x 6.3	0.68 x 0.91	3.2 x 4.2	0.45 x 0.61	2.4 x 3.2	0.34 x 0.45
V. 1/2"			12.7 x 17.0	1.8 x 2.4	9.5 x 12.7	1.3 x 1.8	6.3 x 8.5	0.91 x 1.2	4.2 x 5.6	0.61 x 0.81	3.2 x 4.2	0.45 x 0.61	
mm 2/3"					13.1 x 17.5	1.8 x 2.5	8.7 x 11.7	1.2 x 1.6	5.8 x 7.8	0.84 x 1.1	4.3 x 5.8	0.63 x 0.84	
1.5 29-20-13 WD: 52mm	NA	0.036	0.12	0.036	0.12	0.036	0.12	0.036	0.12	0.036	0.12	0.036	0.12
	MAG	0.43	3.0	0.56	3.9	0.75	5.3	1.1	7.9	1.7	11.8	2.3	15.7
	DOF	0.42	0.038	0.42	0.038	0.42	0.038	0.42	0.038	0.42	0.038	0.42	0.038
	F. 1/4"	6.3 x 8.5	0.91 x 1.2	4.8 x 6.4	0.69 x 0.92	3.6 x 4.8	0.52 x 0.69	2.4 x 3.2	0.34 x 0.46	1.6 x 2.1	0.23 x 0.31	1.2 x 1.6	0.17 x 0.23
	O. 1/3"	8.4 x 11.2	1.2 x 1.6	6.3 x 8.5	0.91 x 1.2	4.7 x 6.3	0.68 x 0.91	3.2 x 4.2	0.45 x 0.61	2.1 x 2.8	0.30 x 0.40	1.6 x 2.1	0.22 x 0.30
V. 1/2"			8.5 x 11.3	1.2 x 1.6	6.3 x 8.5	0.91 x 1.2	4.2 x 5.6	0.61 x 0.81	2.8 x 3.7	0.40 x 0.54	2.1 x 2.8	0.30 x 0.40	
mm 2/3"					8.7 x 11.7	1.2 x 1.6	5.8 x 7.8	0.84 x 1.1	3.9 x 5.2	0.56 x 0.74	2.9 x 3.9	0.42 x 0.56	
2.0 29-20-14 WD: 32mm	NA	0.048	0.16	0.048	0.16	0.048	0.16	0.048	0.16	0.048	0.16	0.048	0.16
	MAG	0.57	4.0	0.75	5.2	1.0	7.0	1.5	10.5	2.3	15.7	3.0	21.0
	DOF	0.24	0.021	0.24	0.021	0.24	0.021	0.24	0.021	0.24	0.021	0.24	0.021
	F. 1/4"	4.7 x 6.4	0.68 x 0.91	3.6 x 4.8	0.52 x 0.69	2.7 x 3.6	0.39 x 0.52	1.8 x 2.4	0.26 x 0.34	1.2 x 1.6	0.17 x 0.23	0.90 x 1.2	0.13 x 0.17
	O. 1/3"	6.3 x 8.4	0.90 x 1.2	4.7 x 6.3	0.68 x 0.91	3.6 x 4.7	0.51 x 0.68	2.4 x 3.2	0.34 x 0.45	1.6 x 2.1	0.22 x 0.30	1.2 x 1.6	0.17 x 0.22
V. 1/2"			6.3 x 8.5	0.91 x 1.2	4.7 x 6.3	0.68 x 0.91	3.2 x 4.2	0.45 x 0.61	2.1 x 2.8	0.30 x 0.40	1.6 x 2.1	0.22 x 0.30	
mm 2/3"					6.5 x 8.7	0.94 x 1.2	4.3 x 5.8	0.63 x 0.84	2.9 x 3.9	0.42 x 0.56	2.2 x 2.9	0.31 x 0.41	

\* REFER TO SUPPLEMENTARY CHARTS FOR PERFORMANCE WITH CO-AX & MITUTOYO OBJECTIVES

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NOTE: SHADED AREAS REPRESENT CONDITIONS WHERE ZOOM RANGE IS LIMITED DUE TO VIGNETTING.