

12.5× Zoom Lens Parameter																	
Number		Motorised + Coaxial Zoom Lens															
Magnification		0.58×~7.5×															
Working Distance		77.4±2mm															
Optical Magnification		0.58×	0.6×	1.0×	1.5×	2.0×	2.5×	3.0×	3.5×	4.0×	4.5×	5.0×	5.5×	6×	6.5×	7×	7.5×
DOF(mm)		2.75	2.67	0.95	0.43	0.27	0.2	0.15	0.12	0.1	0.081	0.073	0.066	0.061	0.056	0.052	0.05
N.A.		0.025	0.025	0.043	0.063	0.074	0.082	0.09	0.097	0.1	0.11	0.11	0.11	0.11	0.11	0.11	0.11
F.No.		12.5	12.5	11.85	11.95	13.65	15.3	16.5	18.4	19.9	20.4	22.45	22.7	26.8	29.4	31.7	33.9
Resolution(μm)		13	13	7.8	5.3	4.53	4.09	3.73	3.46	3.36	3.05	3.05	3.05	3.05	3.05	3.05	3.05
TV Distortion		0.050%	0.050%	0.002%	0.010%	0.020%	0.003%	0.020%	0.20%	0.018%	0.020%	0.010%	0.010%	0.001%	0.010%	0.005%	0.005%
FOV(mm) D×H×V	Diagonally	18.97	18.33	11.00	7.33	5.50	4.40	3.67	3.14	2.75	2.44	2.20	2.00	1.83	1.69	1.57	1.47
	Horizontal Line	15.17	14.67	8.80	5.87	4.40	3.52	2.93	2.51	2.20	1.96	1.76	1.60	1.47	1.35	1.26	1.17
	Vertical Line	11.38	11.00	6.60	4.40	3.30	2.64	2.20	1.89	1.65	1.47	1.32	1.20	1.10	1.02	0.94	0.88
Max. Sensor Size		2/3"															
Mount		C-Mount															
Mode of zoom		Motorised Zoom															
Focus Adjustment		/															
Operating Environment		Temperature:-10°C~+50°C; Humidity: 30-80% (no Condensation)															

- Professional optical design, optical magnification 0.58x-7.5x, magnification ratio 12.5:1.
- Big FOV application, based on 2/3" camera.
- Compact structure, easy to assemble and install.

The integrated motorized control system is suitable for all of these zoom lenses. The motorized control system can control single or dual shafts via RS232 or USB. The underlying software code for the OEM platform will also be provided.

It can be used in semiconductor, automation, electronic communication and other industries.

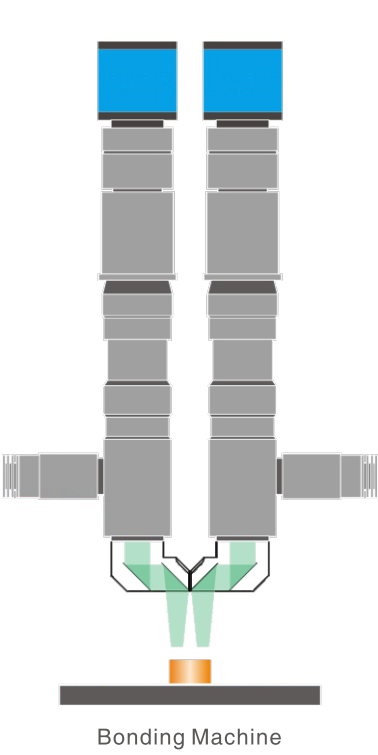
Dimension Drawing

Unit:mm

Technical drawing of a mechanical assembly, showing a side view and a cross-sectional view. The drawing includes the following dimensions:

- Overall width: 60.38
- Top section diameter: $\varnothing 40.6$
- Top section diameter: $\varnothing 33.3^{+0.01}_{-0.03}$
- Top section height: 72.3
- Top section height: 26
- Top section height: 129.1
- Top section height: 137.6
- Top section height: 147.205
- Bottom section diameter: $\varnothing 30$
- Bottom section diameter: $\varnothing 31$
- Bottom section height: 27.76-32
- Bottom section height: 81.521
- Bottom section height: 39.221
- Bottom section diameter: $\varnothing 25$
- Bottom section diameter: $\varnothing 8^{+0.1}_{-0}$

EXAMPLES OF APPLICATION



The figure consists of four micrographs arranged in a 2x2 grid, illustrating different stages or components of microchip fabrication:

- Top Left:** A micrograph of a square die with a white cross-shaped cutout in the center, set against a purple background.
- Top Right:** A micrograph showing a circuit board with gold-colored pads and traces, with black wires connected to the pads.
- Bottom Left:** A micrograph of a blue wafer with vertical lines, likely representing a wafer with a specific pattern or structure.
- Bottom Right:** A micrograph showing a complex circuit layout on a black substrate, featuring various components and traces.