

# STM6

## MEASURING MICROSCOPE

*Compact and highly functional design, with many possible combinations of bodies and stages.*



### STM6 Specifications

Item		Manual 2-axis	Manual 3-axis	Motorized 3-axis	
Microscope body	Focus	Vertical movement range	155mm		
		Maximum accepted sample height	155mm *1, 100mm *2		
		Z-axis measurement range	-	155mm *1, 100mm *2	
		Coarse focusing speed	-	-	4.8mm/sec
	Fine focusing speed (variable)	-	-	800µm/400µm/200µm/50µm (full rotation of knob) 4 steps	
Illumination	Cold light fiber guided illumination	12V100W halogen (for both reflected and transmitted light)			
Observation tube		Erect image monocular tube, erect image trinocular tube, erect image trinocular tube for ES (100:0/0:100/10:90)			
Objectives (UIS)	For metallurgical microscope	MM6-OB series			
	For measuring microscope	UMPlanFL series, LMPlanFL series, UMPlanFL-BD series, LMPlanFL-BD series			
Eyepiece (UIS)		MM6-OCC10x (with cross line, F.N. 22), MM6-OC10x (F.N. 22)			
Stage	Stroke	MM6C-CS50 = X-axis: 50mm, Y-axis: 50mm/MM6C-CS100R = X-axis: 100mm, Y-axis: 50mm MM6C-CS100 = X-axis: 100mm, Y-axis: 100mm/MM6C-CS150 = X-axis: 150mm, Y-axis: 100mm			
	Measuring accuracy	50mm stroke: (3+L/50)µm 100mm stroke: (3+2L/100)µm 150mm stroke: (3+3L/150)µm [L: measuring length (mm)]			
Counter display	Minimum readout	0.5µm	0.1µm/0.5µm (selectable)	0.1µm	
Dimensions *3		465(W) x 437(D) x 596(H)mm	465(W) x 437(D) x 592 (H)mm	465(W) x 437(D) x 696(H)mm	
Weight *4		Approx. 94kg	Approx. 95kg	Approx. 97kg	
Power consumption		100-120/220-240V~0.7/0.4A 50/60Hz		100-120/220-240V~1.6/0.8A 50/60Hz	

\*1: With objectives for metallurgical microscope

\*2: With objectives for measuring microscope

\*3: STM6 microscope body + MM6C-CS100 stage combination

\*4: STM6 microscope body + MM6C-CS100 stage + integrated unit combination

# STM6-LM

## MEASURING MICROSCOPE

*Motorized focusing as standard,  
for fast, high-precision measurement of large samples.  
Counter display: minimum readout 0.1µm or 0.5µm selectable.*



### STM6-LM Specifications

Microscope body	Focus	Vertical movement range	205mm
		Maximum accepted sample height	205mm *1, 150mm *2
		Z-axis measurement range	205mm *1, 150mm *2
		Coarse focusing speed	4.8mm/sec
		Fine focusing speed (variable)	800µm/400µm/200µm/50µm (full rotation of knob) 4 steps
	Illumination	Cold light fiber guided illumination	12V100W halogen (for both reflected and transmitted light)
Observation tube	Erect image monocular tube, erect image trinocular tube, erect image trinocular tube for ES (100:0/0:100/10:90)		
Objectives (UIS)	For metallurgical microscope	MM6-OB series	
	For measuring microscope	UMPlanFL series, LMPlanFL series, UMPlanFL-BD series, LMPlanFL-BD series	
Eyepiece (UIS)	MM6-OCC10x (with cross line, F.N. 22), MM6-OC10x (F.N. 22)		
Stage	Stroke	MM6-CS250=X-axis: 250mm, Y-axis: 150mm	
	Measuring accuracy	X-axis: (3+5L/250) µm, Y-axis: (3+5L/150)µm [L: measuring length (mm)]	
Counter display	Minimum readout	0.1µm/0.5µm (selectable)	
Dimensions *3	480(W) x 579 (D) x 843(H)mm		
Weight *4	Approx. 170kg		
Power consumption	100 -120/220-240V~0.9/0.4A 50/60Hz		

\*1: With objectives for metallurgical microscope

\*2: With objectives for measuring microscope

\*3: STM6-LM microscope body + MM6-CS250 stage combination.

\*4: STM6-LM microscope body + MM6-CS250 stage + integrated unit combination