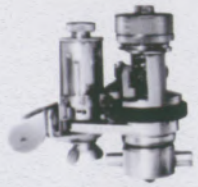


ENGINE INDICATORS

The engine indicator records the pressure in the cylinder of an internal combustion engine or a compressor to calculate the output power, and to test the engine performance. The indicator can be used also for recording the relationship between the stroke and the force of a press machine.



MM20



MW30



MT31



MT45

Model	Max.pressure To be measured (kgf/cm ²)	Engine Revolution (r.p.m)	indicator diagram		Application	Remarks
			Height (mm)	Length (mm)		
MM20	40, 80, 160, 50, 100, 200, 60, 120, 250 70, 140, 300	350 or less	50	90	Low speed internal combustion engines Reciprocating steam engines	
MM30	40, 85, 200 50, 100, 300 60, 130 70, 150	600 or less	35	60	Medium speed internal combustion engines Reciprocating steam engines Air or gas compressors	Mechanically operated
MW30	50, 100, 150 60, 120 70, 130 80, 140	1000 or less	21	38	High speed internal combustion engines	
MM50	45, 80 50, 100 60, 120 70	1200 or less	25	40	High speed internal combustion engines	
MT31	150	1200 or less	Only indication (indicator size 60 DIA)		Internal combustion engines	Peak pressure indicated
MT45	200				Various compressors	

Max.pressure	40	50	100	150	200	300kgf/cm ²
Model						
MM20	350r. p. m					
MM30	600r. p. m					
MW30	1000r. p. m					
MM50	1200r. p. m					