

Universal Sheet Metal Testing Machine

Model: SMT-M 120 series

This multipurpose testing machine is recommended for educational purposes while it also can be used in the process control departments. This equipment is provided in three different configurations to meet the diverse needs of consumers. In the SMT-M120 model, the required power is provided using a hand pump and the drawing force and the blank-holder force can be determined based on the pressure gages values using the provided formulas. Furthermore, The flow stress-strain curve of the testing material in bulge test is also determined manually using the provided formulas. The SMT-M120W model includes the hydraulic power pack instead of the hand pump. In the SMT-M120B model the data-logging possibility is also included.
 Note: All the models can be upgraded to higher models in future.



Model	SMT-M120	SMT-M120W	SMT-M120B
Drawing +Blank holder force:	Max. 120 kN		
Drawing punch ϕ :	Max. 60 mm		
Blank ϕ :	Max. 130 mm		
Drawing Depth:	Max. 55 mm		
Tests:	FLC test Bulge test ERICHSEN Cupping test Deep Drawing Cup test Hole Expansion test		
Hydraulic circuit components:	Manual hydraulic pump	Hydraulic power pack and electrical operated	
Regulation of Blank-holder force:	Manual		
Regulation of Punch Speed:	None	Manual	
Data-logging?	No	Yes	