



CLAM-SHELL SCREEN PRINTER

WITH OR WITHOUT TAKE-OFF



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APPLICATION

For screen-printing substrates in Flat Film/Sheet/Thin Board form made of non-deforming materials.

Ex: Printed Circuits, Membrane Switches, Overlays, Posters, Stickers, Card Boards, Signs, etc..(/B type is applied for rigid materials only.)



FEATURES

TOP-QUALITY: An ATMA Clam-shell machine with ISO9001(2000 revision) & ISO14001 certified quality featuring smart & elegant design, solid structure, fine finish, extreme accuracy, superb performance, user-friendly functions & safety, environment-friendly energy efficiency, a top-quality choice of its kind in the market.

TABLE SECTION: Table made of aero-purposed aluminum-alloy face board + strong gravity-die-cast base stationarily, installed stationary to assure absolute accuracy. With vacuum provided by ring-blower + instant on/off switching + flow adjustment valve. (/G type: with auto Belt Take-off System + sensor for printed work discharge)

SCREEN SECTION: Screen inserted from front and held by left & right Screen Holder Arms which are freely re-locatable. Manual screen holders as standard (switchable air locking as optional). Screen holder arms are manually locked in front and pneumatically locked in rear, integrated with loose-proof valves & controls against power/air shutdown or operation error. With 3 each adjustment knobs + micrometers for X/Y-axis & θ -angle fine registration. Screen up/down is driven by induction motor + shock-free speed control + clam-shell pivot up/down mechanism structured on light-weighted aluminum profiles, provides dual strokes: short one for regular printing & high-lift for clean-up, off-contact is set by adjustments on screen holder arms. Runs stably & smoothly with accurate stop-positioning. With pneumatic Screen Peel-off system synchronized to print stroke and instant screen lay-down before flood coating, peel-off stroke & dwell time settable, equipped with pressure equalizer to avoid breaking screen against squeegee pressure.

PRINT HEAD: Print in front-to-rear direction, motor driven + linear rails + shock-free variable speed control, travel margins settable, stable & smooth run in all speeds. With all necessary adjustments for Squeegee/Flood Coater: inclination angle, skew(bias) angle, up/down speed/depth, leveling.



CLAM-SHELL SCREEN PRINTER WITHOUT TAKE-OFF MODEL (MAX. PRINT AREA)

ATMECH 57 (550x750mm)

ATMECH 710 (750x1050mm)



Pressure Equalizers & Air FRL



Screen Insertion from Front

BELT TAKE-OFF(/B TYPE): Consists of auto up/down base + 4 delivering belts (small ropes), after printing, belts rise to lift printed work off the table then rotate to deliver it out. Leftward take-off direction as standard (can be reversed by moving entire system). Belt speed synchronized and variably settable, works with sensor in two modes: detect departure of printed work to lay belts down, or detect to stop printed work at exit for inspection.

ELECTRIC CONTROL: Adopts PLC Control featuring all on/off for Power, System or else single-action controls & air-locks, 3 modes selectable for each Operation/Vacuum/Cycle, Print/Flood Speed Tuning, Auto Timer/Foot Switch operation, Counter, Emergency-stop Safety Bar/Shields over front/left/right sides and Auto Load Offset control against screen-down (activated along emergency-stop). (/B type: added Take-off on/off, sensor mode selection and belt speed tuner)

PNEUMATIC CONTROL: With air source input on/off & Pressure Detection Switch (when pressure goes low, stops operation to avoid defect), auto moisture filtering/drainage & air-line lubrication, 3 each Pressure Equalizing System respectively for Print, Flood & Peel-off, pressure adjustment for Auto Load Offset.

SAFETY: Main rails & pivot point well covered, with Safety Bars & Shields as emergency-stop means for screen-down (aided by Auto Load Offset), cycle start/break control on Foot Switch, Error-prevented program inter-link & light indication, Power Surge & Leak protections, etc..

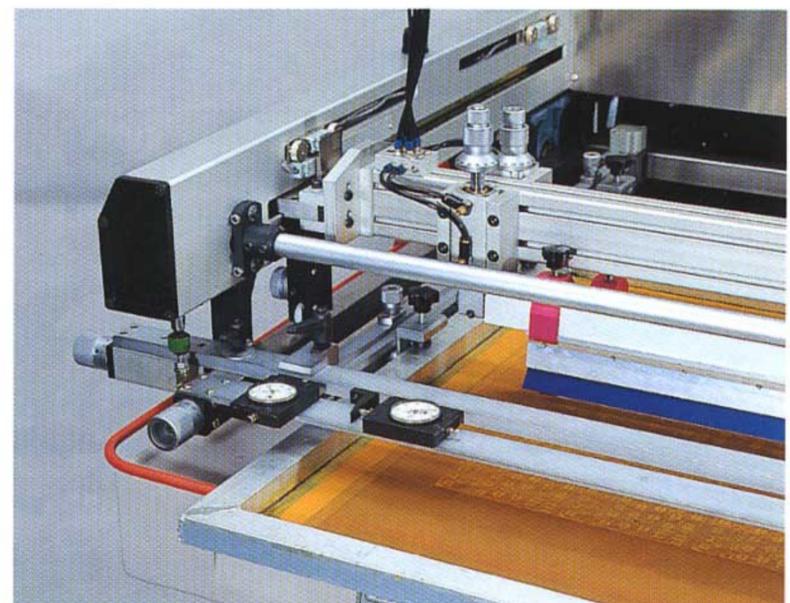
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**CLAM-SHELL
SCREEN PRINTER
WITH BELT TAKE-OFF
MODEL (MAX. PRINT AREA)**
ATMECH 57/B (550x750mm)
ATMECH 710/B (750x1050mm)



Print Head



Screen Micro-adjustments

TECHNICAL DATA

SPECIFICATION	57	57/B	710	710/B
TABLE SIZE (DxW/mm)	800x1000	800x1000	950x1250	950x1250
VACUUM AREA (DxW/mm)	620x740	500x620	760x1040	620x900
MAX. PRINT AREA (DxW/mm)	550x750	550x750	750x1050	750x1050
MIN. PRINT AREA (DxW/mm)	150x250	150x250	150x350	150x350
MAX. FRAME SIZE (O/D, DxW/mm)	1000x1050	1000x1050	1200x1350	1200x1350
MIN. FRAME SIZE (O/D, DxW/mm)	350x750	350x750	350x1050	350x1050
MAX. FRAME HEIGHT (mm)	25-40	25-40	25-40	25-40
SUBSTRATE THICKNESS (mm)	0-20	0-20	0-20	0-20
TABLE HEIGHT (mm)	960+40	960+40	960+40	960+40
BELT HEIGHT (mm)	-----	965+40	----	965+40
SCREEN-UP ANGLE/CLEARANCE FROM TABLE:				
STAND-BY LEVEL (° /mm)	20/650	20/650	18/590	18/590
CLEAN-UP LEVEL (° /mm)	38/930	38/930	31/930	31/930
PRINT HEAD SPEED (mm/sec.)	60-930	60-930	60-930	60-930
MAX.PRINT SPEED, non-stop,full stroke(P/H)	1020	690	1000	600
SCREEN X/Y ADJUSTMENT (mm)	±10/ ±10	±10/ ±10	±10/ ±10	±10/ ±10
PRINT HEADSKEW-ANGLE (°)	±4	±4	±4	±4
POWER SOURCE	3-PHASE, 220V/380V, 50/60Hz			
POWER CONSUMPTION (kw)	2.9	3.1	2.9	3.1
COMPRESSED AIR SOURCE	6-8 kgs/cm ²			
AIR CONSUMPTION (L/cycle)	4.1	4.8	4.1	4.8
MACHINE DIMENSION (WxDxH/cm)	155x151x135	196x151x135	184x172x135	235x172x135
MACHINE WEIGHT (kgs)	930	980	1080	1160



ISO 9001 ISO14001
CERTIFIED



SYMBOL OF EXCELLENCE
WINNER 93-02



SILVER NATIONAL
AWARD OF EXCELLENCE
WINNER 96



NATIONAL INNOVATION
RESEARCH AWARD
WINNER 97



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