GHS 150

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AUTOMATIC SCREEN PRINTING MACHINES WITH "SHUTTLE"

Fully automatic screen printing machines to print on flat glass featuring any kind of shapes, provided with a shuttle system for glass transportation and with auto-centring system (template-free) on the entrance conveyor.

All the mechanisms necessary to the printing process are contained in the printing head.

The machines of the **GHS150 series** consist of:

A - Entrance fish-bone belt conveyor with lift-up platform to lift the glass before registration.

B - "Template-free" centering system to register the glass.
    This system makes use of the so-called "auto-centering device" that is able to center all types of glass shapes with the same accuracy.

C - Glass Transport System (to and from the printing station) **via vacuum shuttle**.

D - Printing station
   1.) The **Printing table** is made of a special aluminum alloy coated with Teflon. The glass is held by vacuum cups.
   2.) **Fixed printing head**: the screen, not the printing head, is moved up and down for glass feeding and clearance.
      The printing head is designed and manufactured with the machine tool concept, to achieve rigidity and planarity with the printing table.
      Automatic set-up of the speed and stopping points through values stored in the PLC for each part number.
      - Auto-aligning squeegee and flood bars with pneumatic latching/unlatching mechanism.
      - Squeegee bar height controlled by two pneumatic cylinders. The structure is conceived in such a way that the "interference" between the glass and the squeegee bar is constant: this is the only way to attain constant thickness of the ink deposit.
      - The off-contact adjustment works simultaneously on all the four corners.
      - Peel-off (snap-off) controlled by a motorized device.
      - The AISA master frame allows the screen to be extracted or removed quickly for cleaning or changeover.

E - Exit conveyor

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GHS 150 / 152 SERIES

SPECIFICATIONS

MODEL	GHS150/T	GHS151/T	GHS152	GHS155/T	
Maximum glass size	1500x1000	2000x1300 *	1300x800	1000x700	mm
Minimum glass size	300x200	500x300	250x150	250x100	mm
Cycle time	6 / 9	8 / 12	5 / 6,5	4,5 / 7	s
Glass flow direction	Long edge leading	Long edge leading	Indifferently	Long edge leading	
Printing direction	Transversal	Transversal	Transversal	Transversal	
Positioning accuracy (including centering)	+/- 0,15	+/- 0,15	+/- 0,15	+/- 0,15	mm
Maximum EXTERNAL frame dimensions	2200x1410	2890x1930	2050x1750	1670x1050	mm
"Off-Contact"	8 – 30	8 – 30	8 – 30	8 – 23	mm
"Peel-Off" (max. stroke)	60	60	60	50	mm
Maximum printing stroke	1750	2320	1550	1180	mm
Max. printing speed	750 (adjustable)	750 (adjustable)	750 (adjustable)	750 (adjustable)	mm/s
Power absorbed (indicative)	8	8	8	8	kW
Compressed air consumption (indicative)	500-700	500-700	500-700	500-700	nl/min
MODEL	GHS150/L	GHS151/L	GHS154/L		
Maximum glass size	1500x1000	2000x1300	2500x1750		mm
Minimum glass size	300x200	500x300	900x500		mm
Cycle time	6 / 9	8 / 12	12 / 18		s
Glass flow direction	Short edge leading	Short edge leading	Short edge leading		
Printing direction	Longitudinal	Longitudinal	Longitudinal		
Positioning accuracy (including centering)	+/- 0,15	+/- 0,15	+/- 0,15		mm
Maximum EXTERNAL frame dimensions	2200x1410	2750x1750	3200x2310		mm
"Off-Contact"	8 – 30	8 – 30	10 – 30		mm
"Peel-Off" (max. stroke)	60	60	100		mm
Maximum printing stroke	1750	2250	2800		mm
Max. printing speed	750 (adjustable)	750 (adjustable)	750 (adjustable)		mm/s
Power absorbed (indicative)	8	8	8		kW
Compressed air consumption (indicative)	500-700	500-700	500-700		nl/min

GLASSLINE AISA

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