

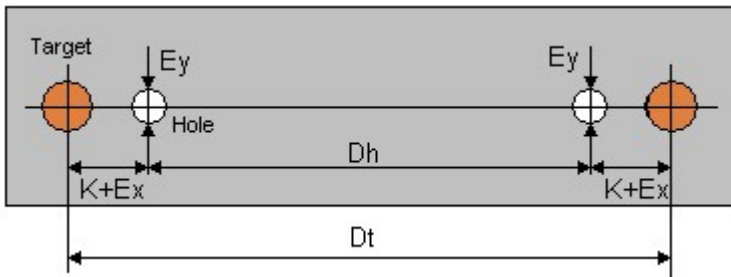
GALAXY 700 XB – Detailed Specifications



X-Ray Module Specificati

Item	Value	Notes
Axes and motion		
N. of controlled axes	3 (X, Y, S)	Linear motors
Linear transd. resolution	0.00004 “	Heidenhain linear scales
Strokes	33- 33 -27.55 “	X-Y-S
Max. speed	2300 inch/min	All axes
Acceleration	0,8-0,5-08 g	X-Y-S
Position repeatability	±0.00016”	All axes – Check method : Gauge
Z-Axis and spindle		
Z-Axis motion	Pneumatic	
Z-Axis Stroke	1,57”	
Z-Axis Feed	20 – 120 inch/min	Adjustable by speed reduction device in the last 04” of stroke
Spindle type	Turbine	
Spindle rotation speed	30.000 rpm	Fixed
Run-out	±0.0006”	
Tool type	Std. drilling tools	Shaft 3.175 mm (1/8”) – With ring set at 21 mm from tool end
X-Ray vision system		
X-Ray tube	Sealed type	Voltage: 0-50 KV Current: 0-1 mA Focal spot: 50 µm
X-Ray sensor	CCD Camera	With fiber optic coupled scintillator
Field Of View (approx)	0.55” x 0.39”	
Working capabilities		
Panel clamp	Venturi	Vacuum Area: 8.2” x 4.6”
Max target detection area	28” x 23” mm	
Max drilling area	29” x 23” mm	
Forbidden area	9.4”x 5.9” mm	Central vacuum plate
Max. Panel dimension	30” x 24”	
Min. Panel dimensions	11.8” x 7.9”	
Panel thickness	0,01” – 0.2”	
Max. panel weight	N.A.	
Max. flash width	1”	
Recommended target diam.	0,02” – 0.1”	
Drilling tool diameter	0.08” –0.2”	
Process time	20 sec	4 targets + 3 holes
Throughput	2 pan. / min	Including the manual panel load time (manual load machine)
Accuracy data		
Vision system repeatability	±4 µm - 0.00016”	X, Y axes - Checked with the mach. available meas. functions
Target detection accuracy	±12µm - 0.00047”	On the whole target detection area – Geometry test
Drilling accuracy	±12µm – 0.00047”	On the area ±100 mm high, centered to the X-axis

Optimsed Drilling accuracy	$\pm 20\mu\text{m} - 0.00079''$	Within 700 x 600 mm area (See definitions)
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X-Ray module:
Definition of Optimised Drilling Accuracy

$$E_x = K \pm 20 \mu\text{m} - 0.0163''$$

$$E_y = \pm 20 \mu\text{m} - 0.0163''$$

Dt = Measured distance between targets

Beveling Module Specifications

Axes and motion		
N. of controlled Axes	X, Y, Z, C	Translator, Heads (mirrored), Pick & Place, Panel rotation
Type of motors	Brushless	
Position transducers	Resolver	
Max speed	2.4, 0.6, 0.6, 100	X (in/min), Y (in/min), Z (in/min), C (rpm)
Position repeatability	0.0020''	
Position accuracy	$\pm 0.0078''$	
Tools specifications		
Cutters for edges	Diam. 3.15''	V profile disks - Refer to drawings
Cutters life time	26 – 32 Kfeet	
Router for edges	Diam. 23.362''	Refer to drawings
Router for chamfering	Diam. 0.984''	V profile router - Refer to drawings
Dust evacuation	Vacuum cleaner	
Process Scraps deposit	Dedicated cart	
Working capabilities		
Max panel size	27.5''	After beveling
Min Panel size	12 x 12''	After beveling
Chamfering diameter	0.2 – 0,5''	
Panel thickness	0,02'' – 0,2''	
Max flash width	1''	Over the beveling limits
Max flash thickness	\leq panel thickness	
Beveling tolerance	± 0.02 mm	
Ooutput trolley	8''	Height of stack
Process time	60 sec.	Beveling + Chamfering + Automatic panel lay down
Debris vacuum system		
Size	41x3.5x2.5''	
Weight	180 lbs	
Power	2,2 KVA	
Voltage	380-400 V	

Thank Capacity	38 Litres	
Depression	300 mBar	
Air flow rate	310 m ³ /h	12.2 in ³ /h

Autoloader Specifications

Cart capacity	6"	Max stack height
Max Panel dimension	27.5 x 27.5 "	
Max panel thickness	0.4"	
Max panel weight	15 lbs	

Global Installation Specifications

Overall dimensions	3.700x1.800x1.650(h) mm	Light towers excluded
Weight	5000 lbs (approx.)	
Electrical power	12 KVA (Max)	220 / 480 V – 3 Ph – No neutral – Including vacuum unit
Air consumption	600 NL/min (Average)	(1.600 NL/min peak) – Pressure: 6-10 Bar
Working temperature	22 ± 3 °C	

Cycle specifications

Throughput	40-60 panels/h	Depending on type of machining.
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