

14 TECHINICAL CHARACTERISTICS

JOB CHARACTERISTICS		
Inner maximum dimension	30x24.015	In.
Inner minimum dimension	11.811x9.842	In.
Maximum thickness allowed	0.196	In.
Drilling diameter	≤ 0.196 (on client request)	In.
Anti-inversion hole diameter	Same as drilling diameter	In.
Average cycle time	< 20	s
Center-to-center error	± 0.001	In.
Repeatability	± 0.0008	In.
Drilling system	With spindle for the execution of two reference holes and one anti-inversion hole	
Type of holes center-to-center variability	Continuous	
Number of jobs to memorize	> 1000	
Working temperature	$+15^{\circ}\text{C} \div +35^{\circ}\text{C}$	
No-working temperature	$0^{\circ}\text{C} \div +50^{\circ}\text{C}$	
Humidity	< 70% without condensate	

SYSTEM CHARACTERISTICS		
Structure type	Soldered steel and fiber glass cover	
Working table type	Anodized aluminium	
Table movement	By means of stepping motors	
Minimum movement resolution	0.039	m.
Table's degrees of freedom	3 degrees of freedom: X axis, Y axis and rotation around Z axis	
Movement speed	> 0.039 in./sec	
Table movement	> 0.039x0.039 and rotation $0^{\circ} \div 3^{\circ}$	
Type up/down spindle	By means of pneumatic cylinder	
Supply tension	230V AC 50Hz	
Power supply	< 1kW	
Compressed air pressure	5.5 bar	
Compressed air consumption	< 80 NI/min	
Shavings evacuation device	External evacuation system	

VISION SYSTEM CHARACTERISTICS		
Number of video cameras	2	
Field of view	> 0.078x0.078	In.
Recognizable markers diameter	< 0.031	In.
Type of recognition	Patterns or circles	
Recognition time	< 0.3	s
Type of illumination	Transparency and/or reflection by means of red LEDs	