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Inkjet Sand 3D Printer 3DPTEK-J1800

3DPTEK's independently developed inkiet sand 3D printer , the 3DPTEK-J1800, features the latest high-speed vibration powder spreading technology. Combined with high-performance molding processes and intelligent algorithm technologies, it offers fast operation, simple handling, large molding dimensions, high printing efficiency, and higher sand mold accuracy and strength compared to traditional processes. It also has a broad range of applications and is suitable for the production of large-sized and medium-to-small batch sand molds.

Equipment Parameters

Dimensions (L x W x H)	6650×4470×3450 mm	Gas Evolution	8-15 ml/g（850°C）
Build Tank Dimensions (L x W x H)	1860×1060×715 mm	Control Program	AFSWin3DP-L V1.0
Max. Build Vol. (L x W x H)	1800×1000×700 mm	Data Format	STL
Nozzle Res.	400dpi	Eqpt. Weight	≈13t(Host+external Platform+2 Forming Cylinders) ≈6t(Host)
Form. Accuracy	±0.3mm（≤300mm） ±0.5mm（>300mm）	Floor Load Capacity	≥3t/m^2
Form. Speed	18-23 s/layer	Factory Building Height	≥4.5m
Layer Thk.	0.2-0.5 mm	Amb. Temp.	22-28°C
Noz. Count	8	Amb. Hum.	30%-50%
Form. Mat.	Quartz Sand / Ceramic Sand, etc.	Power Supply	380VAC / 50 HZ / 10KW , Three-phase Five-wire
Binders	Furan Resin /Phenolic Resin	Gas Supply	Gas Pressure 0.6~0.8MPa, Flow Rate ≥1.2 m^3/min; Clean and Dry gas Supply
Tensile Strength	1.5-2.5 MPa		

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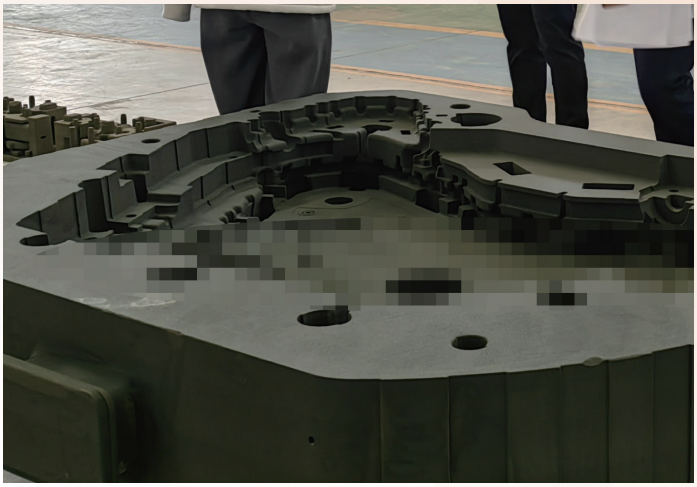
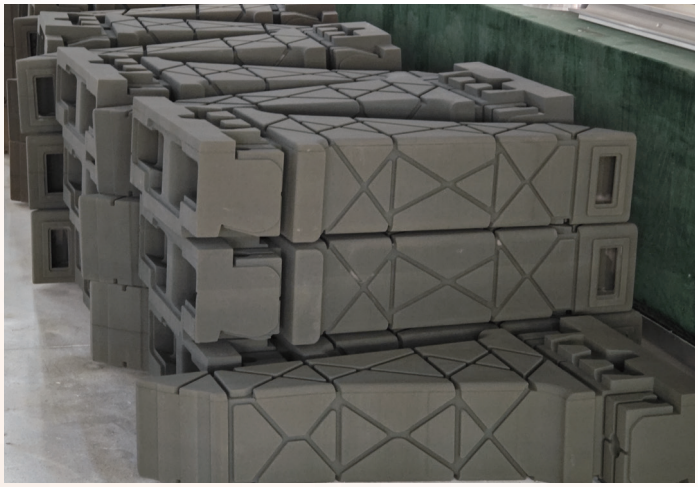
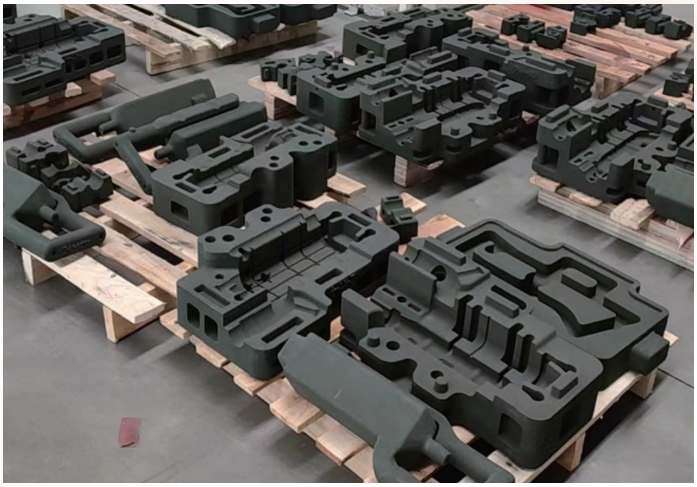
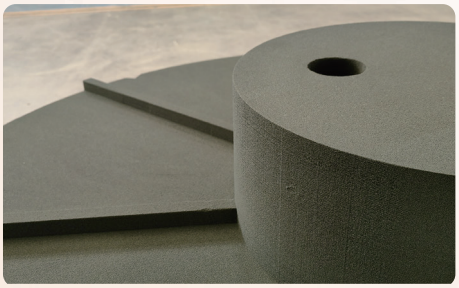
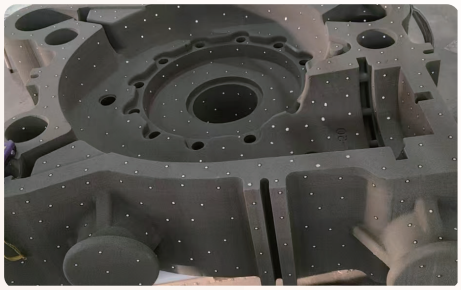
Application Cases

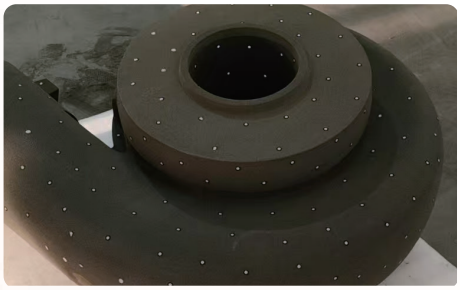












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