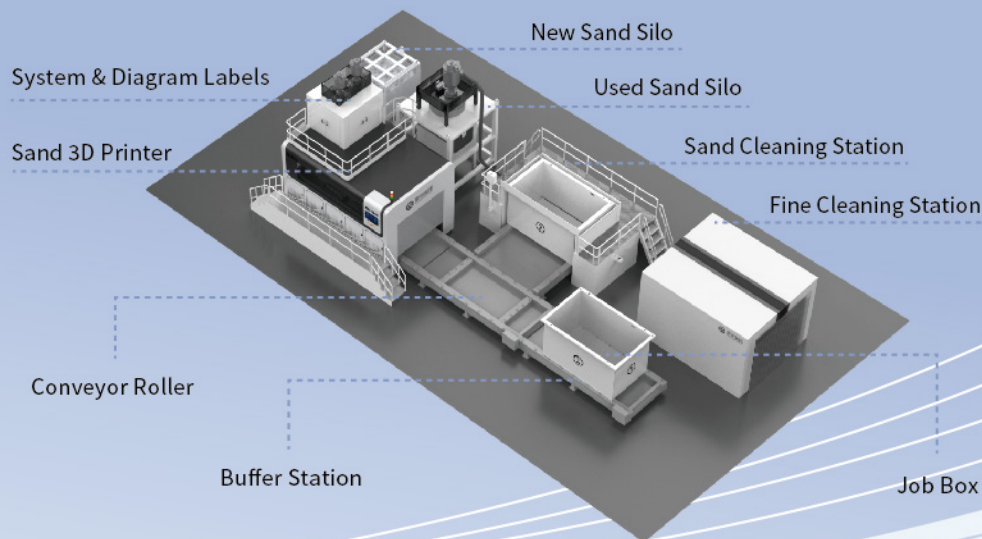


KSS2500A

Sand 3D Printer



Designed specifically for large-scale, mass heavy casting, integrating a 2500mm ultra-large format, 700L/h peak efficiency, and a fully closed-loop automated production line. From sand recycling to sand cleaning with unattended operation, it sets a new standard for the manufacturing of heavy and complex sand molds.

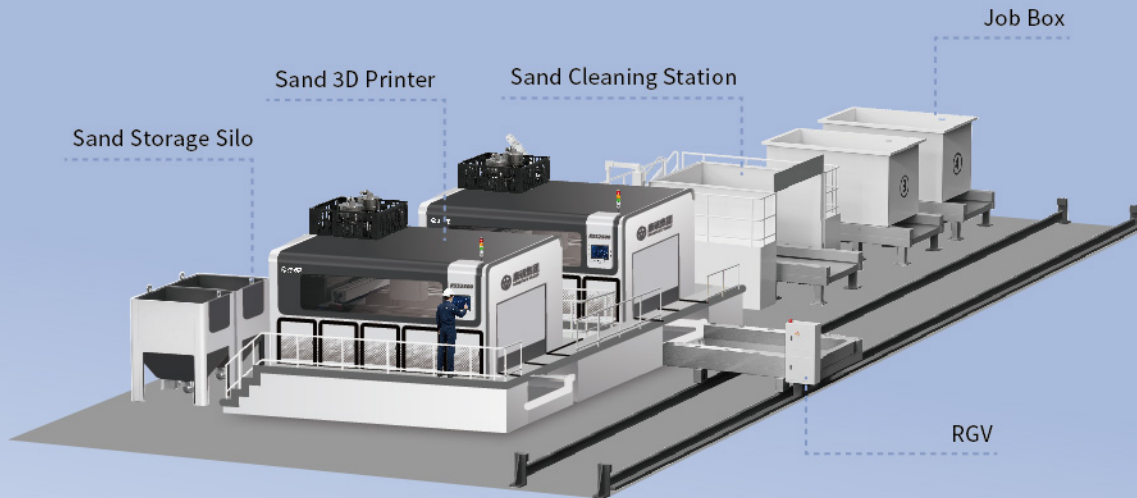
- **Ultra-large build volume:** 2500mm-class build format. Heavy and complex sand molds are formed integrally without splicing, featuring seamless multi-layer stacking.
- **Full-chain automated production line:** Closed-loop integration of 11 major modules from sand recycling → conveying → printing → sand cleaning. Features RGV intelligent scheduling, achieving zero-manual handling of sand boxes.
- **Peak 700L/h highly efficient mass production:** Bi-directional sand recoating at 400mm/s + printing at 1200mm/s. As fast as 10 seconds per layer, reducing costs and increasing efficiency for large-scale production.
- **Compatible with 5+ sand materials:** Silica sand, ceramsite sand, chromite sand, etc. Utilizes a furan-based binder system with adaptive adjustment of process parameters. One machine covers broader casting needs.
- **7×24 intelligent O&M:** Self-developed upper-level system with lifetime free upgrades, cluster collaborative control + intelligent warning and diagnosis, ensuring industrial-grade stable operation.

Technical Parameters	KSS2500A
Dimensions (LxWxH)	5000 × 3600 × 4500mm
Build Volume (LxWxH)	2500x1500x1000mm
Print Layer Thickness	0.3~0.8mm adjustable
Print Resolution	400DPI
Print Efficiency	300-700 L/H
Print Accuracy	±0.35mm
Weight (t)	18
Footprint	128 square meters (including sand cleaning station, etc.)

KSS2500A Binder Jetting Casting Sand
3D Printing Equipment KSS2500A

KSS2500A

Sand 3D Printing Production Line



Technical Parameters

KSS2500A

Printing Sand (Mesh)	40/70, 50/100, 70/100, 70/140, 100/200 (Silica sand, ceramsite sand, chromite sand, etc.)
Printing Liquid Material	Furan-based binder system
Sand Recoating Speed	400mm/s
Print Motion Speed	1200mm/s
Recoating Method	Bi-directional recoating
Number of Printheads	13
Inkjet System	Max inkjet frequency 50kHz, droplet size 80-100pL, binder viscosity range 8-14cP, built-in temperature control system
Sand Mold Parameters	Tensile strength: 0.8-2.0MPa, Gas evolution: 10-15ml/g
Noise (dB)	<80



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