

Organic-Direct-Binding

ODB



2,000 mm
build space

up to 200 dpi
Resolution x, y

± 0,1%
Accuracy

Advantages of sand molds

- > Large format 3D printing with dimensions of up to $2,000 \times 1,000 \times 1,000 \text{ mm}$ (LxWxH)
- > Variable hybrid approaches and combination with conventional molds
- > Close-to-production mold and casting properties
- > All common casting alloys processable

- Complex cores can be manufactured in one piece and reproduced reliably and accurately
- > Mold design with integrated sprue system possible
- Cost-effective production from prototypes to small batches
- > High flexibility in terms of required quantities and mold design

Material data

Material	Silica sand
Designation	GS 15, GS 19
Medium grain size	150 µm, 190 µm
Applications	Molds and cores for casting

Technical data

Build space up to	2,000 x 1,000 x 1,000 mm
Binder type	Cold-curing furan resin
Layer height	300 µm
Accuracy	+0.1 % (min. +1.5* layer height)
Loss on ignition	approx. 2.5 % weight. %
Bending strength	≥220 N/cm² (depending on sand or binder)
Resolution x, y	up to 200 dpi
Recycling	possible up to 30 %*

^{*}sand recycling can influence the strength of the components

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