



VX1000

SAND/PLASTIC/CEREMIC



VX2000

SAND



VX4000

SAND

“ voxeljet are an industrial 3D printing company with the world’s largest and most powerful 3D printing systems for large components or large runs of small components.

From fast model and prototype construction, through flexible production of small series and agile interception of peak loads, all the way to series production of highly complex geometries and bionic structures.”

Specification

DIMENSIONS/WEIGHTS

	VX 1000	VX 2000	VX 4000
Outer dimension LxWxH	2,800 x 2,400 x 2,300 mm	2,500 x 4,900 x 2,700 mm	19,000 x 9,300 x 4,300 mm
Installation space LxWxH	11,000 x 8,000 x 2,800 mm	18,000 x 9,500 x 3,500 mm	24,000 x 16,100 x 4,500 mm
Weight	3,500 kg	5,500 kg	-

PROCESS

	VX 1000 (SAND/PMMA)	VX 2000 (SAND)	VX 4000 (SAND)
Build space LxWxH	1,000 x 600 x 500 mm	2,000 x 1,000 x 1,000/600 mm	4,000 x 2,000 x 1,000 mm
Print resolution x, y	up to 600 dpi	up to 300 dpi	up to 300 dpi

*Build space depending on height

**Installation space incl. peripherals.

For more information please contact Cad Cast Co.,Ltd.

Website : www.cad-cast.com

E-mail : sales@cadcastbkk.com

Tel : +66 (0) 2 405 4824

Line ID : @cadcastbkk

Facebook : Cad Cast Co.,Ltd.

Material data sheet for voxeljet 3D printer

PMMA for Investment casting

Base material	PMMA Particle material (55 µm)	PMMA Particle material (85 µm)
Binder-type	Polypor B	Polypor C
Tensile strength	4.3 MPa	3.7 MPa
Yield point	1 %	1 %
Burn-out temperature	700 °C	600 °C
Residual ash content	< 0.3 weight %	< 0.2 weight %

FEATURES PMMA

- Can be used for prototypes, illustrative models or lost models
- Precise layering & high accuracy
- Components of high complexity
- Economical production in batch sizes of one as well as in series production
- Infiltration in any colour
- Perfect for investment casting because of the base material PMMA



Sand Casting

Base material	any standard raw silica sand
Binder-type	Phenolic binder
Bending strength	250-500 N/cm ²
Loss on ignition	adjustable (2.0-2.6 weight %)
Especially suited for	Sandcasting
Advantages	low emissions

TECHNICAL DATA PLASTIC PARTS

Layer thickness	250 - 400 µm; Standard 250 µm
Resolution x, y	up to 300 dpi
Accuracy	± 0.1 % (min.± layer thickness)

FEATURES SAND

- No sand pre-treatment needed
- No activator & mixer required
- Very easy to finish (dry process)
- Sand almost 100 % recyclable
- Castable with all current alloys
- Very good bending strength
- Adjustable binder content & IR lamp
- Non-toxic binder



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 Facebook : Cad Cast Co.,Ltd.

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