

GL-3DPRT/W



NO.8
ON-SITE
CONSTRUCTION
PRINTER

INTRODUCTION

The 5-axis robot is a new type of 3D printing product customized and developed for in-situ construction 3D printing applications. It features a modular track, a foldable body, a large reach that allows for printing the height of one floor of a building, and the option to add dedicated support modules later to complete the printing of two-story buildings. It can also be used in conjunction with multiple machines for more diverse construction applications.

SIZE

Equipment size:
Arm Dim.:8000mm, X:22000mm,
Z:5500mm

Effective printing range:
20000mm*7000mm*4500mm
(L*W*H)

SPECIFICATION

Model Number	GL-3DPRT/W
X-axis (m)	22
Arm Dimensions (m)	8
Z-axis (m)	5.5
Max printing speed (mm/s)	100-300mm/S
Robot reach	2.5
Nozzle model	Round
Nozzle diameter(s) (mm)	Round 10, 20, 30, 40
Nominal bead ratio W:H	3:01
Thickness of printed layer	10-30mm
Weight of the Machine	3t
Semi-Continuous Mixing	Yes
Progressive Cavity pump	Yes
Accepted Materials	3D printable Mortars
Default maximum aggregate size (mm)	0-5mm
Silo capacity	100L
Material Pump Rate L/MIN	0-30L /min
Hose Nominal Diameter (mm)	38mm
Motor power	PUMP 7kw, Mixer 5KW
Type	Screw type
Input Type	PUMP & Mixer 三相, 3D Printer 二相
Input frequency (Hz)	50
Voltage	PUMP & Mixer-400-480V, 3D Printer -220V
Total power	7kw, 10.5kw
Control method	Fully automatic online real-time control
Motion control system	Yes
Rapid code control	Yes
3D model automatic processing control	Yes
G-Code Control	Yes
CAD 2D path automatic control	Yes
Software	1.Moli itself has excellent slicing algorithm function 2. Support custom third-party slicing software
Setup Time In Normal Use	<30min
On-Site Training	Yes
Slicing Training	Yes