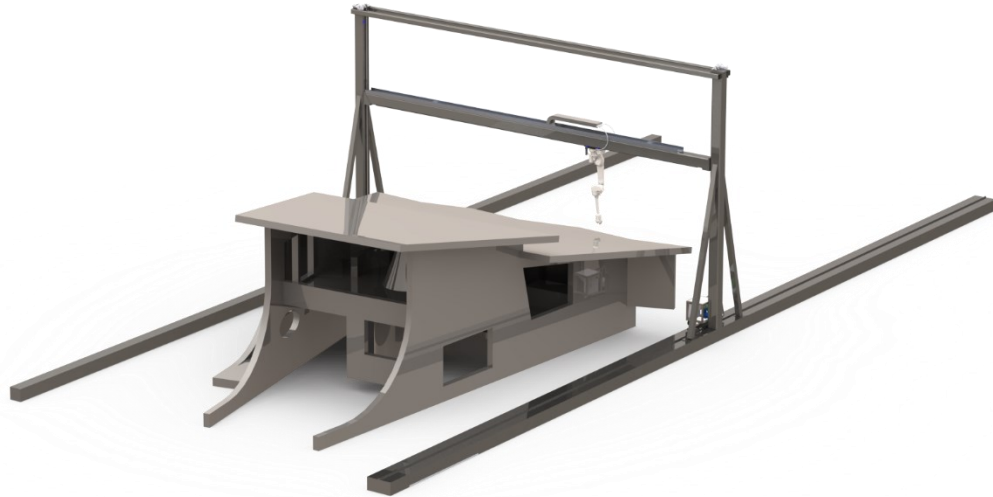


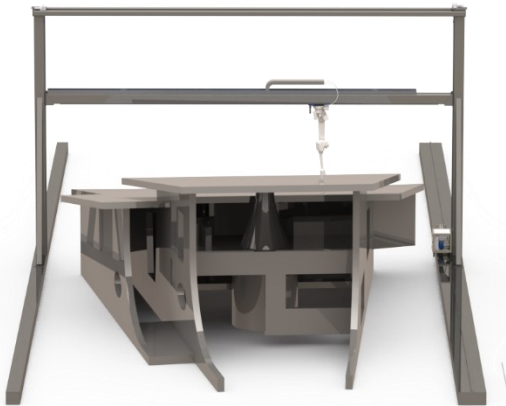
LARGE FORMAT 3D PRINTERS

LEONARDO-2



OVERVIEW

The Leonardo-2 is an industrial, 9-Axis, printer system composed of a 6-Axis robot mounted to a 3-Axis Cartesian flying gantry that can facilitate 24/7 continuous production and large single element creation. Configurations for this printer are available from min 10m*10m*4m up to max 40m*15m*9m build volume with 2.55m of robot reach.



SPECIFICATIONS

MECHANICAL	
Robot Reach (m)	2.55
Robot Mass (kg)	435
Maximum Print Speed (mm/s)	~300
Available Nozzle Sizes (Dia. - mm)	12-40
Nominal Bead Ratio W:H	3:1
Approx. Min-Max Bead Width (mm)	20-68
Approx. Min-Max Layer Height (mm)	0-30
Water Pressure Min-Max (PSIG)	30-60
ELECTRICAL	
Voltage	3~ 400/480V
Input Frequency (Hz)	50-60
CONTROLS	
Motion Controller	ABB-IRC5
Language	Rapid Code Control
SAFETY	
Integrated E-Stop loops	Included
Light curtains and additional interlocks	Upon Request
SOFTWARE	
Basic Slicing Components	Included
Advanced Slicing Components	Upon Request
SERVICES	
Commissioning	10 Days included
Setup-time (normal use)	1 Day
On-site Operator Training	Included

VALUE-ADDED FEATURES

“Start-Stop” Pumping Control, Variable flow-rate output, 2-Stage Mixing Chambers, Semi-continuous mixing, HMI with data acquisition and logging, Easy clean-up, Flow regulated water pump, Optional dust extractor, Optional material conveyor for automated material feeding

TAMs PROMISE

Twente Additive Manufacturing supplies the new systems with a 24-month warranty and 1 year of remote support included. The client focused approach to service ensures client success.