



3D EVOLVE

SMART 3D PRINTING



PREMIA 300 A

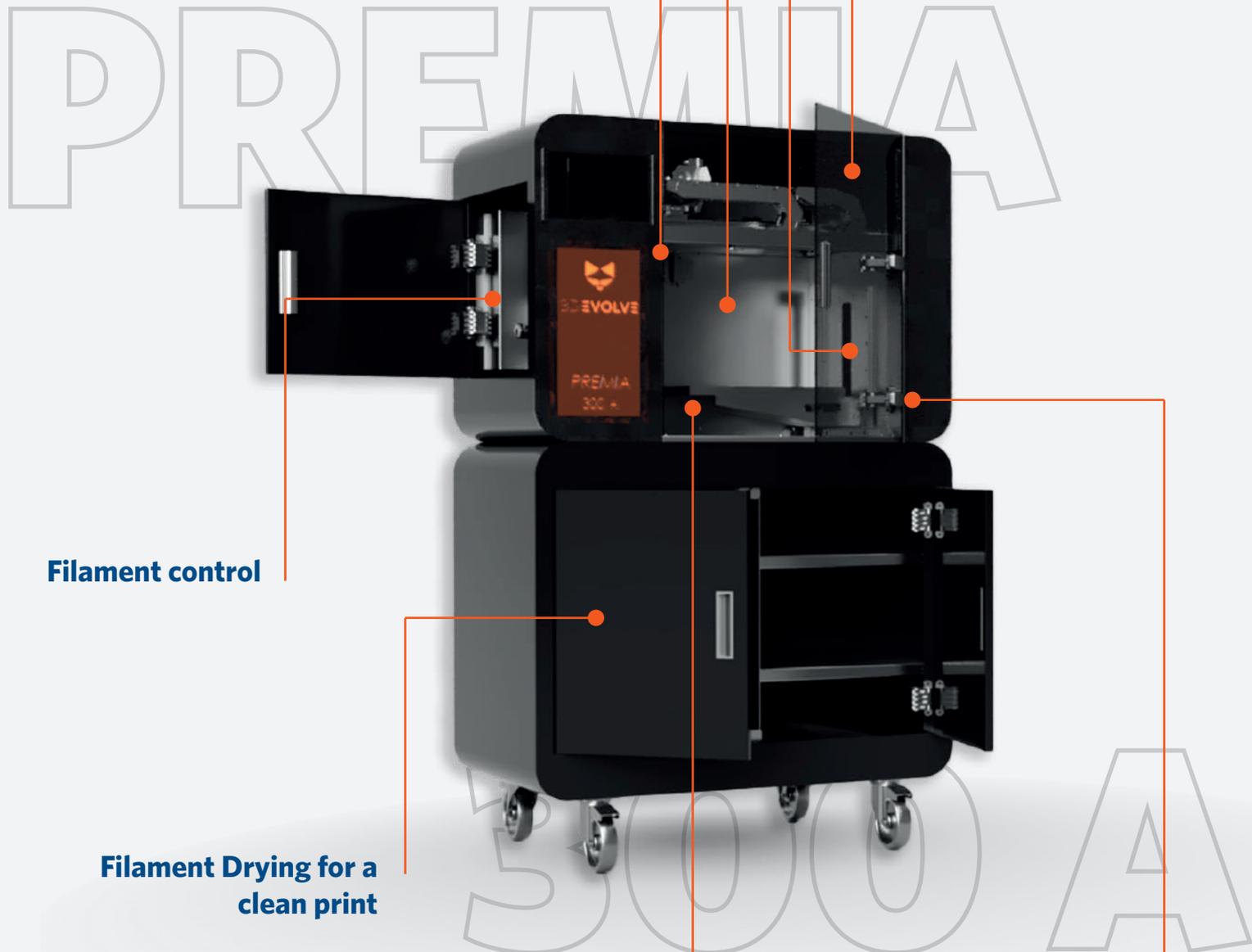
High reliability, high precision.

The foundations of precise motion control

Industrial mechanics for high positioning repeatability

Dual Drive Extruder and Full-Metal Hotend with Bed Leveling Control

A constant view of the manufacturing process



Filament control

Filament Drying for a clean print

Copper plate beneath the harmonic steel printing surface

Sensorless stall detection

Focus point



The foundations of precise motion control



Centered and referenced Peraluman 5083 aluminum plates to ensure stability and secure references for motion control.



Industrial mechanics for high positioning repeatability



Screws and ball-bearing slides to provide enhanced safety during motion.



Dual Drive Extruder and Full-Metal Hotend with bed leveling control

Maximum temperature of 450°C, interchangeable nozzles in either brass or hardened steel in various sizes (standard 0.4mm included). Inductive sensor and bed leveling matrix control for the printing surface, with software correction of anomalies.



Copper plate beneath the harmonic steel print surface

Equipped with a heater for the printing surface that can reach up to 200°C, creating a 70°C air column around the printed part. A PEI coating on the printing surface ensures part adhesion, while its flexibility facilitates easy removal.

Printing volume XYZ: 300x230x230mm.



Filament control

Filament drag and presence sensor to prevent interruptions during printing.



Sensorless stall detection

Upgraded stepper motors with step loss detection to ensure maximum accuracy.



Filament Drying for clean prints

Insulated and heated storage compartment for spool storage.



A constant view of the manufacturing process

Dual high-resolution cameras, one positioned at the first layer level and the second for an overall view of the printed piece.



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3DEVOLVE: FROM INNOVATIVE STARTUP BASED IN BRESCIA TO A SPECIALIZED COMPANY IN DESIGNING AND IMPLEMENTING INNOVATIVE 3D PRINTING SOLUTIONS.

Founded in 2018 by a group of professionals with extensive experience in the field of industrial automation, it quickly establishes itself in the demanding Brescia area. This success is attributed to a wide range of products and services, which include manufacturing printers, creating special printing projects, as well as offering consultancy services for design and materials.



INDUSTRIAL
RELIABILITY



TURNKEY
SOLUTIONS



A WORLD
OF POLYMERS



SCALABILITÀ
ED ASSISTENZA

PATENTS



- *The supporting structure is made with milled plates and referenced using centering pins.*
- *Axes motion control with the use of ball screw drives.*

What new technology does is create new opportunities to do a job that customers want done.

Tim O'Reilly

