

HYBRID DECI Duo

PRODUCTION SERIES
SUPPORT REMOVAL,
SURFACE FINISHING,
AND POWDER REMOVAL

AUTOMATED. INTELLIGENT. COMPREHENSIVE.

PostProcess Technologies is the pioneer of the automated post-printing industry. As the first and only provider of automated and intelligent post-print solutions for additive manufacturing, PostProcess increases the consistency, throughput, and productivity of the third step of 3D printing – post-printing.

MULTI-FUNCTIONING.

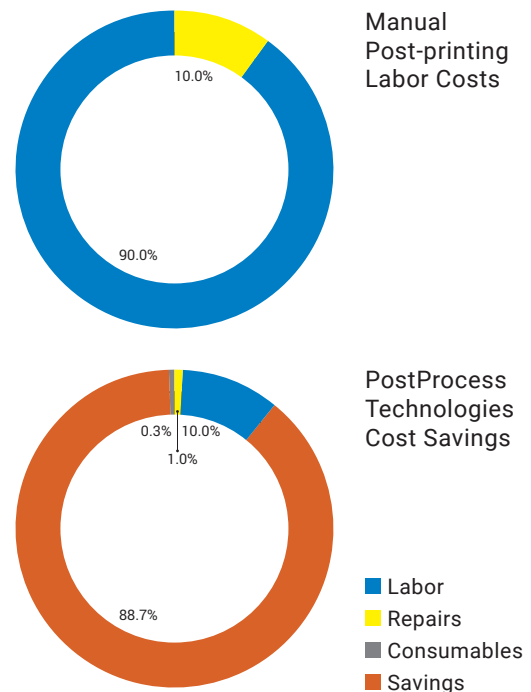
With the Hybrid DECI Duo, support removal, powder removal, and surface finishing of 3D printed parts is automated in a single, multi-functioning system and designed with a space-saving footprint that optimizes production floor space. Our solution of patent-pending software, user-friendly hardware, and eco-friendly consumables works collectively to deliver exacting support removal and surface finishing while increasing the throughput of your production.

ADVANCED SOFTWARE FOR ADVANCED MATERIALS.

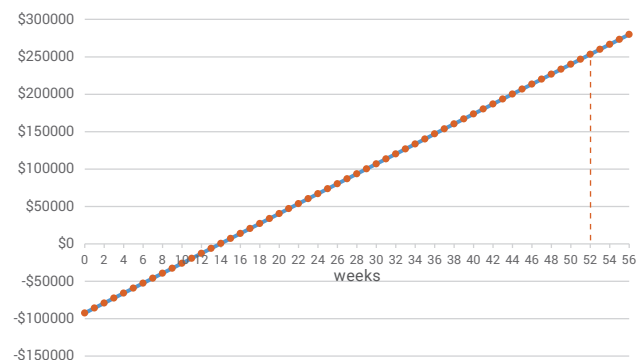
The Hybrid DECI Duo has been engineered for the most advanced 3D print materials such as resins, thermoplastics, and metals, and offer fast cycle times for even the most complex parts, including those with internal channels, organic geometries, and honeycombs.

Through a combination of optimized energy, exclusive detergents, and suspended solids, the system is guided by our patent-pending Agitation Algorithms to remove support material and provide the desired surface finish while preserving fine-detail part geometries. The Hybrid DECI Duo thinks like a member of your team, monitoring and reacting in real-time to maintain optimal conditions with sophisticated features like pre-programmed preventative maintenance schedules, intelligent cycle time programming, and one-touch repeatability with recipes stored within the software.

PostProcess Technologies Labor and Cost Savings



Hybrid DECI Duo Average Investment Payback is 14 weeks



After Year 1, realized savings of \$345,800 based on Productivity Savings and Initial Investment*

*Productivity savings will vary depending on customer

HARDWARE FEATURES

- Automated turntable to fixture parts to ensure held in place during operation
- Clean In Place (CIP) system - when finishing is complete, nozzles rinse and dry off parts in the same chamber
- Hinged electrical panel design allows for easy access for maintaining controls and motor
- Stainless steel envelope provides corrosion resistance
- Casters for easy installation / relocation

RESULTING IN...

- + Preserving fine feature part detail
- + Fast cycle times
- + Automated finishing

SOFTWARE FEATURES

- Patent-pending AUTOMAT3D™ platform
- Beckhoff™ digital interface
- Proprietary Agitation Algorithms
- Variable temperature (100-178°F, 38-81°C)
- Intelligent cycle times
- Customizable settings
- One-touch repeatability with recipes storage
- Pre-programmed preventative maintenance schedules

RESULTING IN...

- + Minimal operator intervention
- + Precision machine programming
- + Consistency and repeatability

PRODUCT SPECIFICATIONS

SIZE & WEIGHT SPECIFICATIONS

- Envelope: 15" D x 20" H
38 cm x 51 cm
- Machine Footprint (Closed door):
– 67 1/2" L x 34 1/2" W x 93 1/2" H
171 cm x 91 cm x 217 cm
– Fits through standard door
- Machine Footprint (Open door):
– 132 1/2" L x 82 1/2" W x 96 1/2" H
337 cm x 210 cm x 245 cm
- Approx. Weight: 1800 lbs. (816 kg) empty;
2050 lbs. (930 kg) full

ELECTRICAL SPECIFICATIONS

US:

- Voltage: 208V 3 Phase
- Amperage: 60A
- Connector: 560P9W (IP67)

EU:

- Voltage: 400V 3 Phase
- Amperage: 20A
- Connector: HBL563P6W

MATERIALS AND TECHNOLOGIES

- SLA, SLS, MJF, DMLS

CONSUMABLES

- PG5C detergent
- AS-SS, AS-ALO and PS-SS suspended solids

SAFETY FEATURES

- Emergency stop
- Auto power down
- LED lighted chamber
- Counter-weighted vertical door
- Compliant with all OSHA regulations



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