

POSTPROCESS

Enabling Scalability
for Additive Manufacturing

DEMI X 5000
Automated Resin Removal

THE SOLUTION

Meet the Full Stack Technology Integration



AUTOMAT3D™



Intelligent Hardware

Resin Cleaning, Support Removal
Surface Finishing

Intelligent Software



Sustainable, Comprehensive Consumables

Eco-friendly, Biocompatible and
Compliant with Health and Safety
Regulations

Resin Removal Solution Summary

PRODUCTIVITY GAINS



- Quicker cycle times
- Software that promotes consistent and repeatable results
- Higher resin capacity

REDUCED SAFETY CONCERNS



- High flashpoint
- Low odor
- Less exposure to toxic (IPA) vapors
- Non-flammable liquid

ATTENTION TO SUSTAINABILITY



- Generates 83% less waste than IPA
- Does not require ATEX or explosion proof certifications
- Enabled for reuse by distillation
- Reduced VOC production

REDUCED CHEMICAL HANDLING



- 6 times less handling than IPA due to increase in longevity
- Less immersion steps
- Reduces spillage
- Less equipment needed resulting in smaller footprint

IMPROVED EFFICIENCY

- The fastest resin removal system on the market
- Field tested on thousands of trays, consistently cleaning full trays in under 10 minutes

Traditional Process



IPA



Technician Time

POSTPROCESS



DEMI 4100



Technician Time



INCREASED DETERGENT LONGEVITY

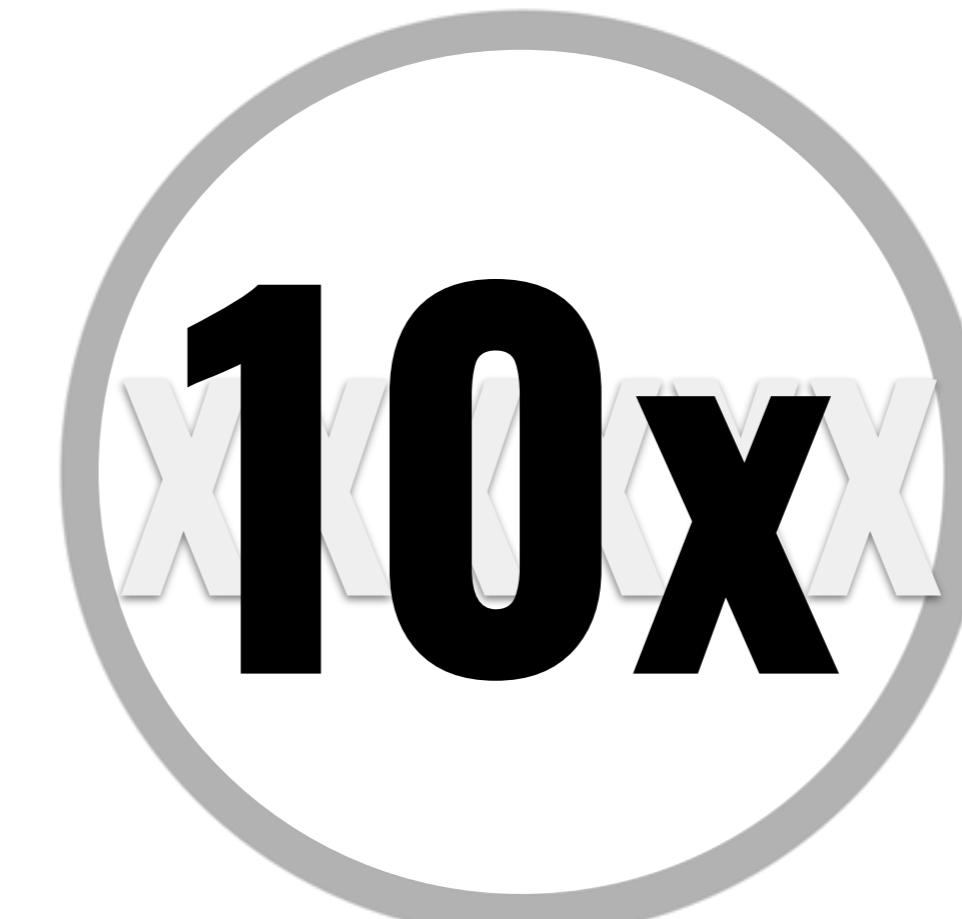
Cleans up to **10 times as many parts** before reaching saturation (over IPA).

Greater longevity means:

- Increased useful detergent life
- >75% reduced waste disposal costs
- Less downtime
- Lower safety risks
- ~30% in reduced total yearly costs



savings in annual detergent disposal costs



longer detergent life



reduction in total yearly costs

POSTPROCESS
PLM-403-SUB



vs.



Introducing the Next Gen of SLA Cleaning - the DEMI X 5000



DEMI 4100



DEMI X 5000

Productivity & Throughput

Seamlessly process large build parts within 10 minutes or less across a wide variety of resins delivering significant efficiency savings.

Safety & Sustainability

Automated lift system, fully enclosed process envelope and non-flammable proprietary chemistry reduce safety concerns and increase sustainability with reduced waste in your workflow operation.

Repeatability through full software integration

AUTOMAT3D® digital platform allows for customization, recipe storage and repeatability with one-touch operation.

DEMI X 5000



- Improve resin removal success in large components and/or components with pain points
- Improved sealing of process chamber to contain vapors
- Updated visual design
- Compatible with loading from a SYS NEO800 build cart

The DEMI X 5000 is designed for compatibility with most large format printers...

Envelope:

35" L x 35" W x 25" H
89cm x 89cm x 64cm

External Dimensions:

93" L x 47" W x 85" H
237cm x 120cm x 215cm

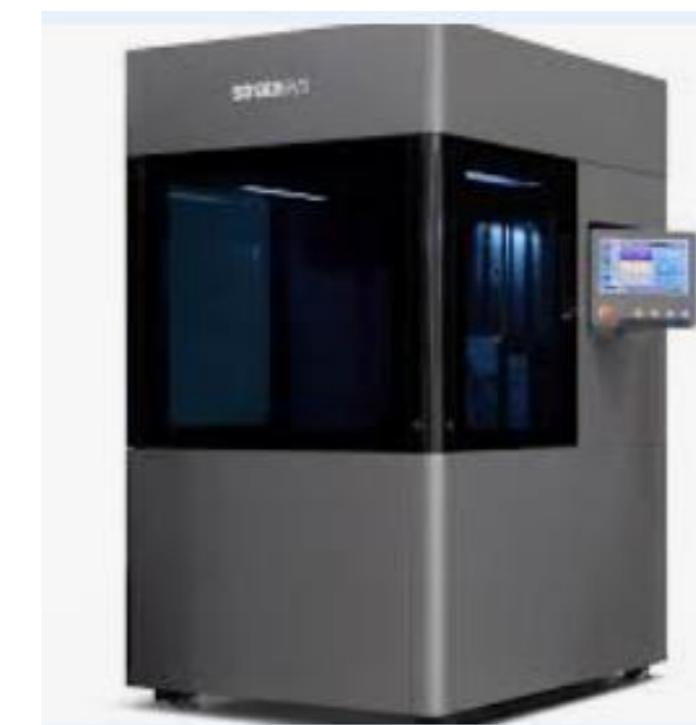
Power Requirements:

US: 3 PH, 240v, 30A
EU:

Ventilation:

External ventilation port to allow connection to facility exhaust.

Stratasys Neo800/800+ Systems



750



3D

UnionTech R1000

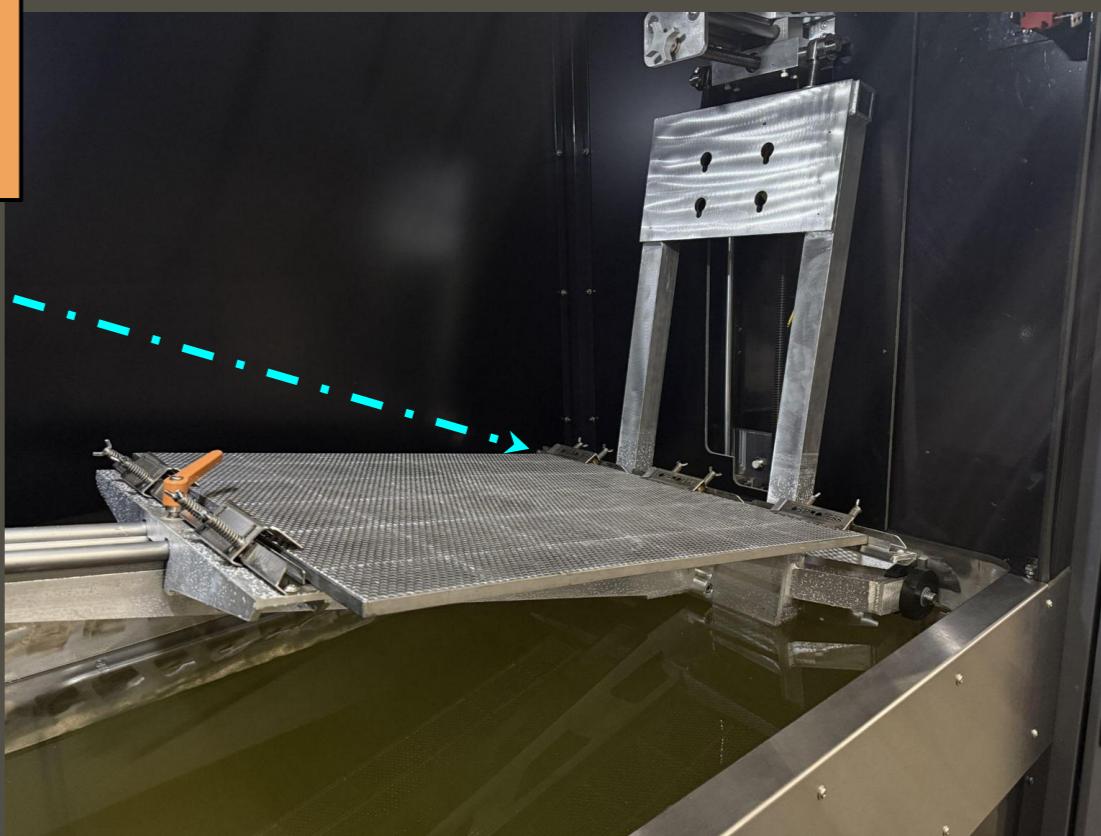


Process Improvements

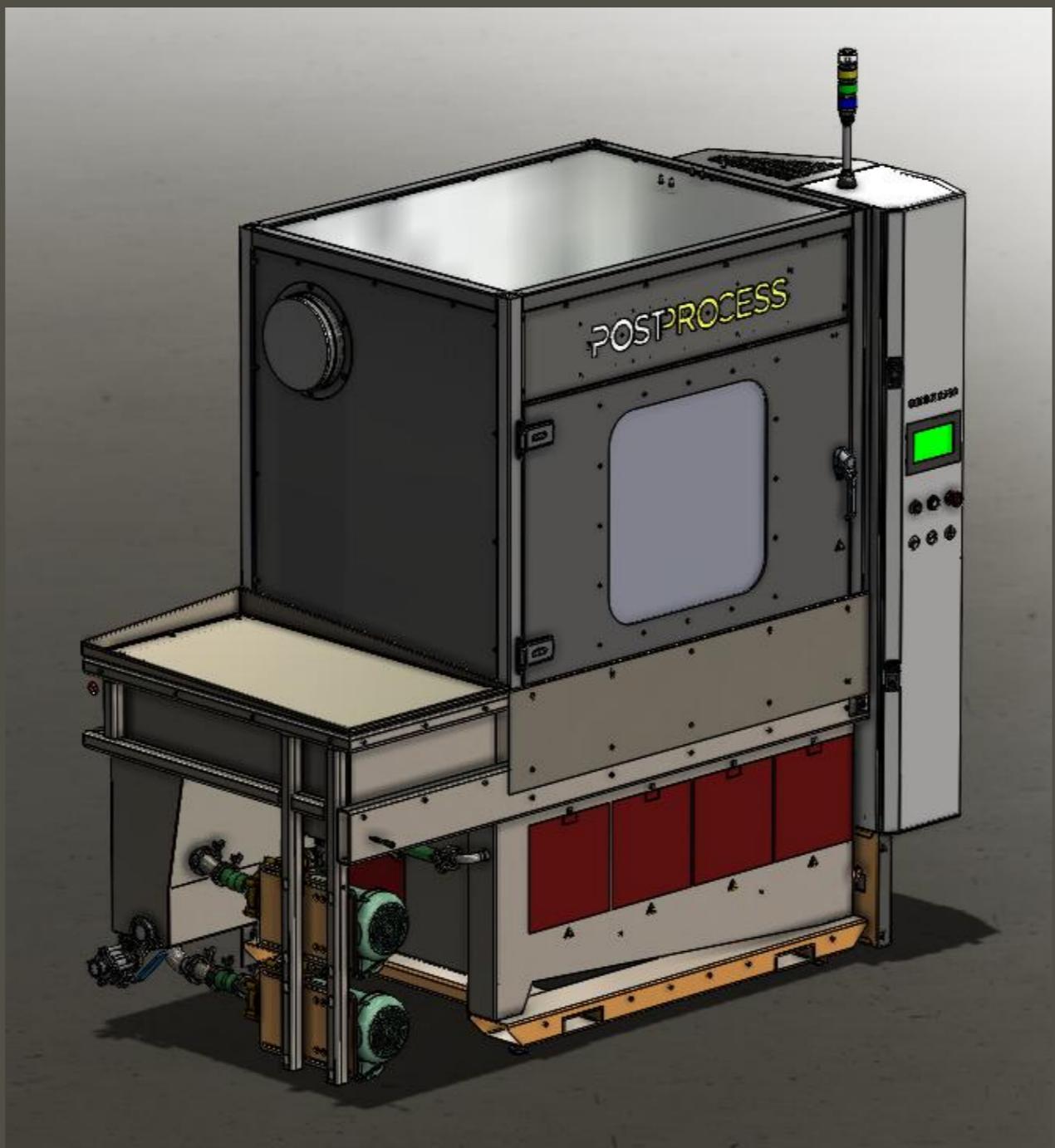
Dual agitation - 2 speed-controlled pumps, one supplying a vertical vortex manifold, the other supplying a horizontal vortex manifold



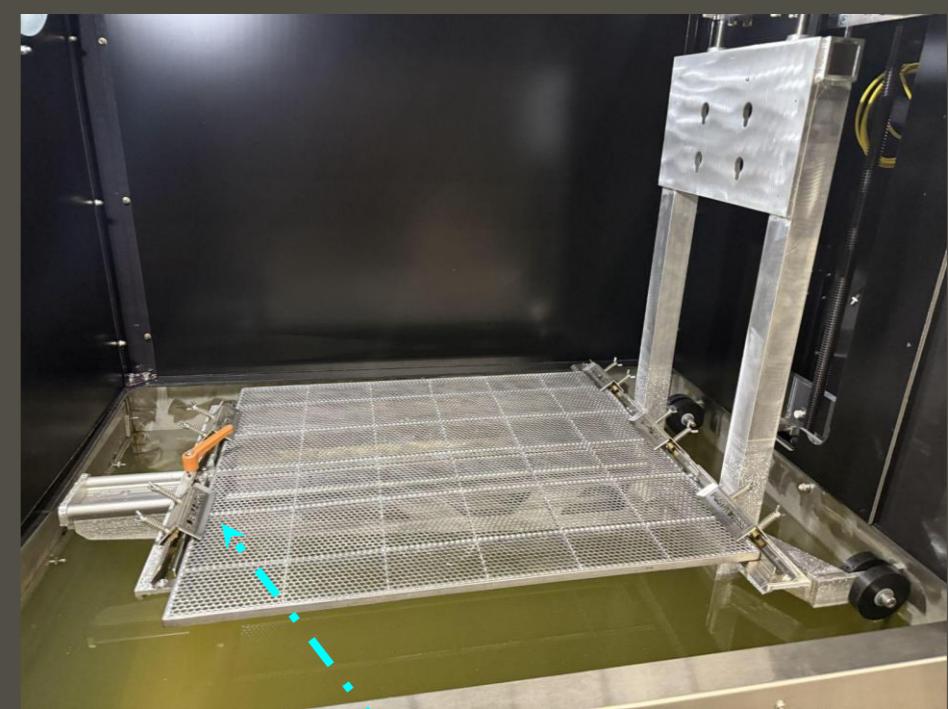
Adjustable tilt mechanism aids flow on downwards-facing surfaces



Maintenance access from front and sides. No plumbing under unit, all plumbing accessible from side

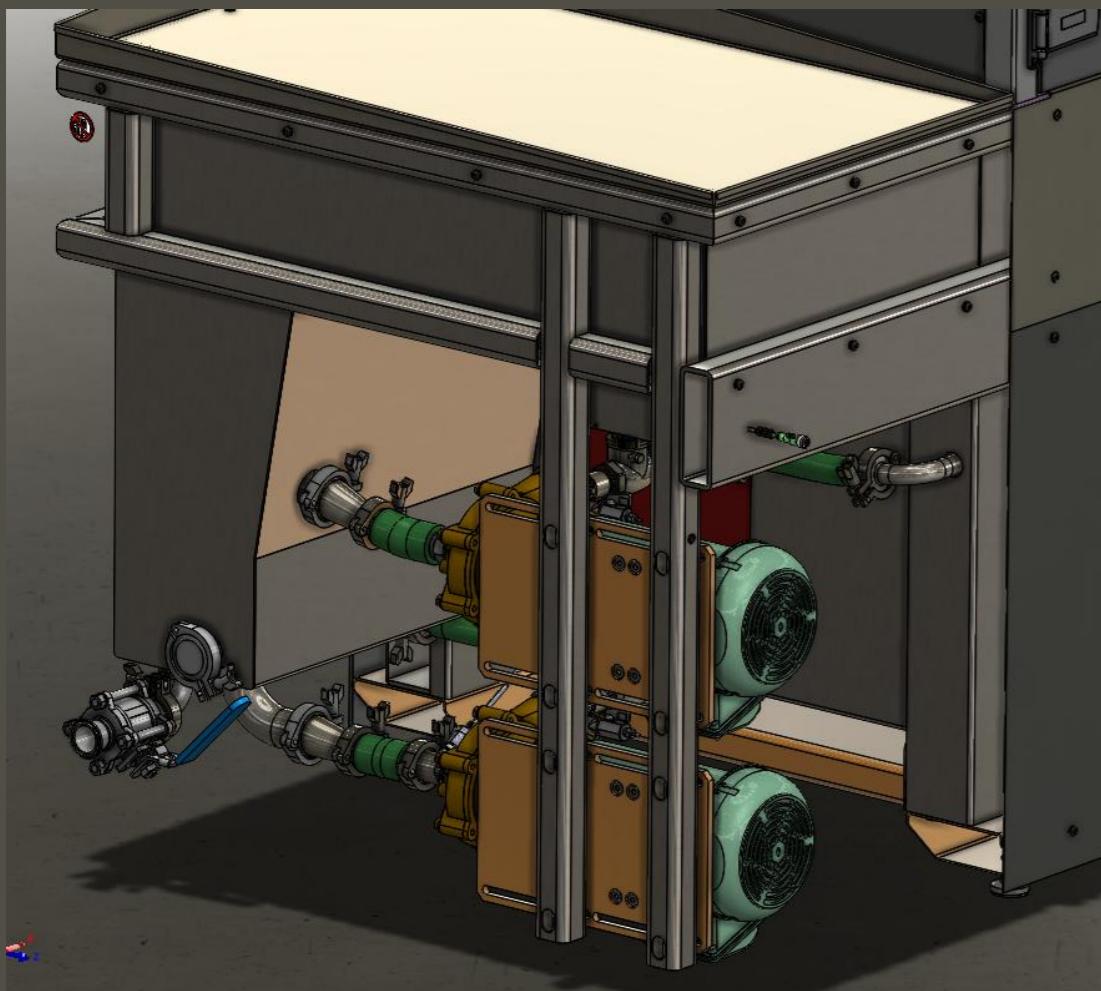


Spring-loaded claws grip build trays

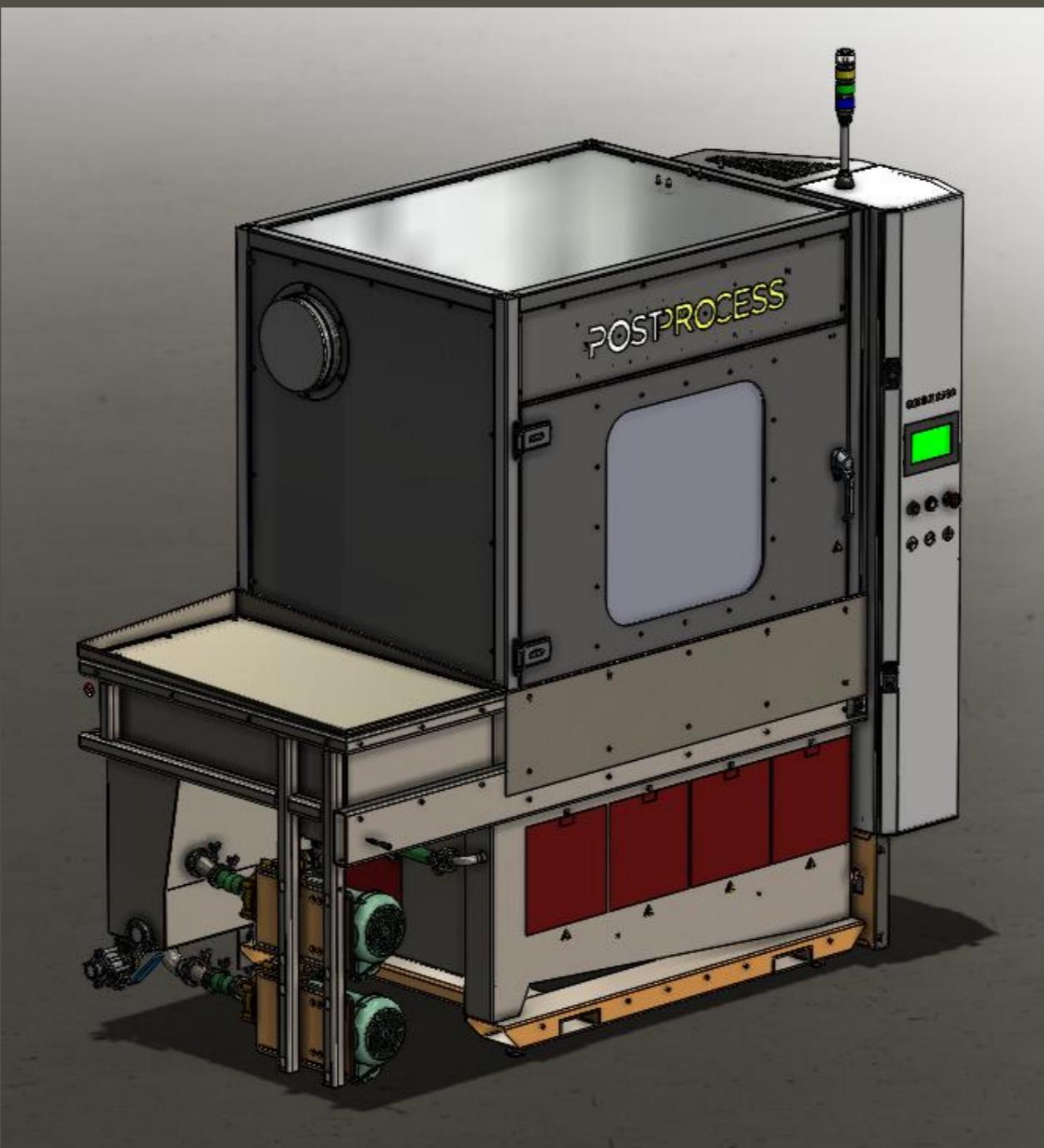


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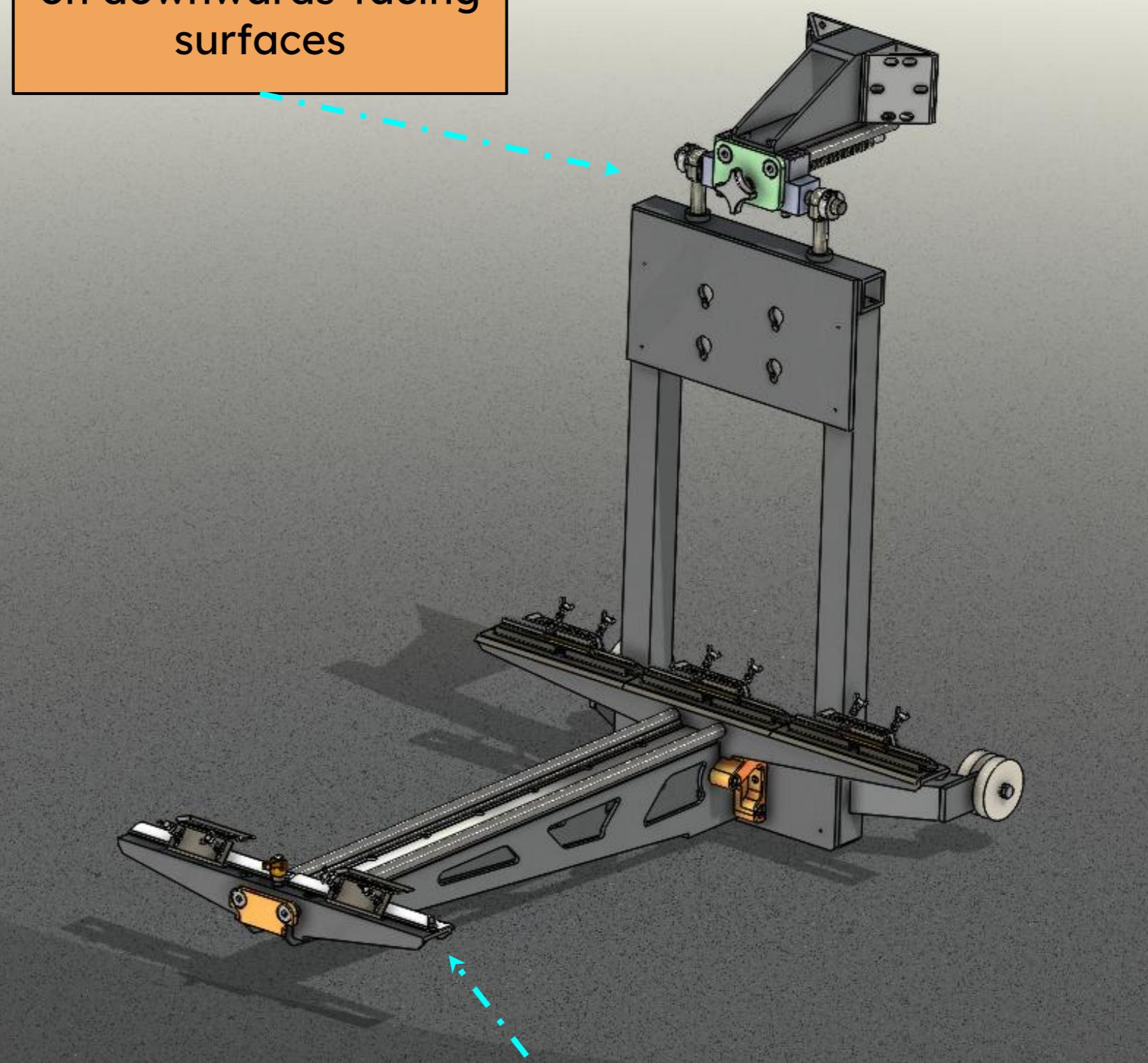
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