

# POSTPROCESS

Enabling Scalability  
for Additive Manufacturing

**DEMI X 5000**

Automated Resin Removal



# THE SOLUTION

Meet the Full Stack Technology Integration



## 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.

IPA  
(10x waste)



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



**DEMI 4100**



**DEMI X 5000**





# 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.



- 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

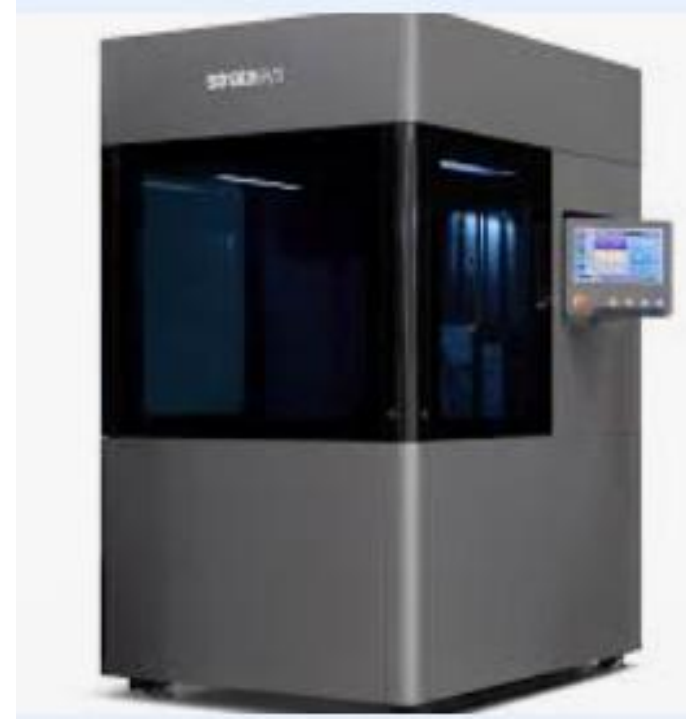
**Power Requirements:**

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

**Ventilation:**

External ventilation port to allow connection to facility exhaust.

**Stratasys Neo800/800+ Systems**



750



3D



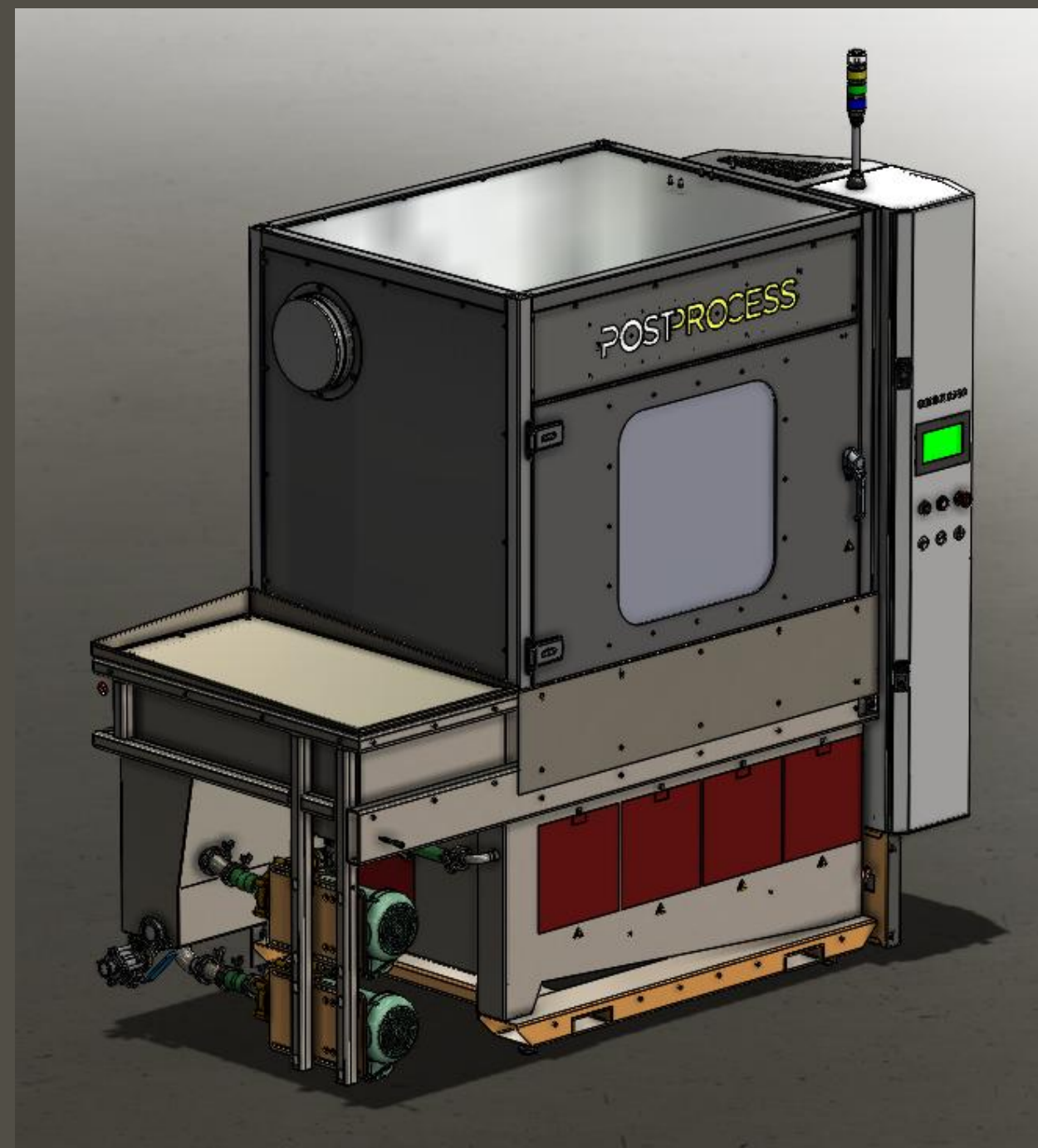


# Process Improvements

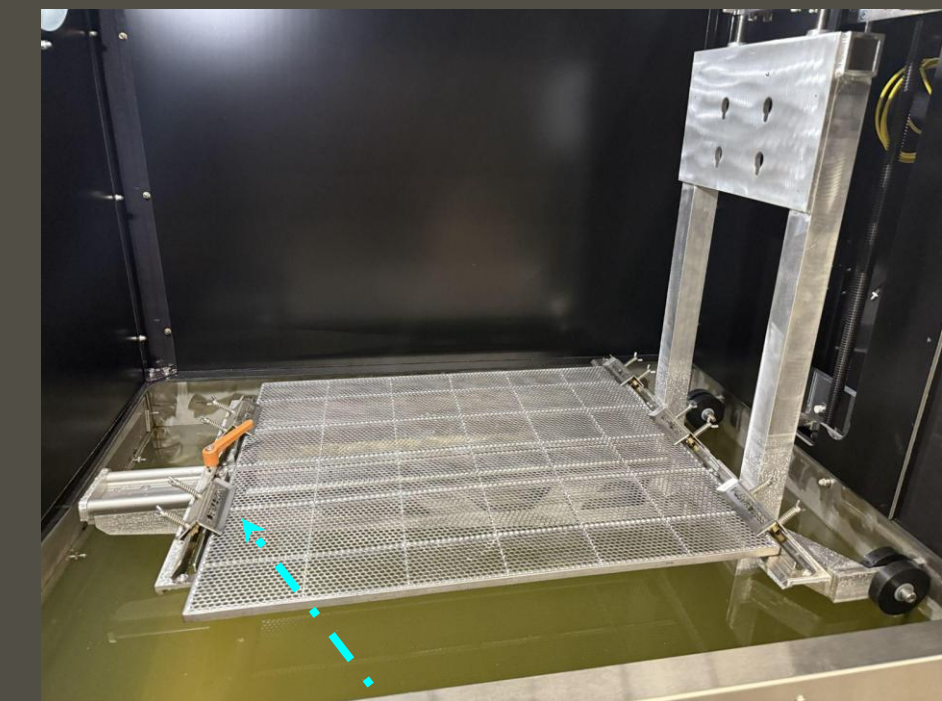
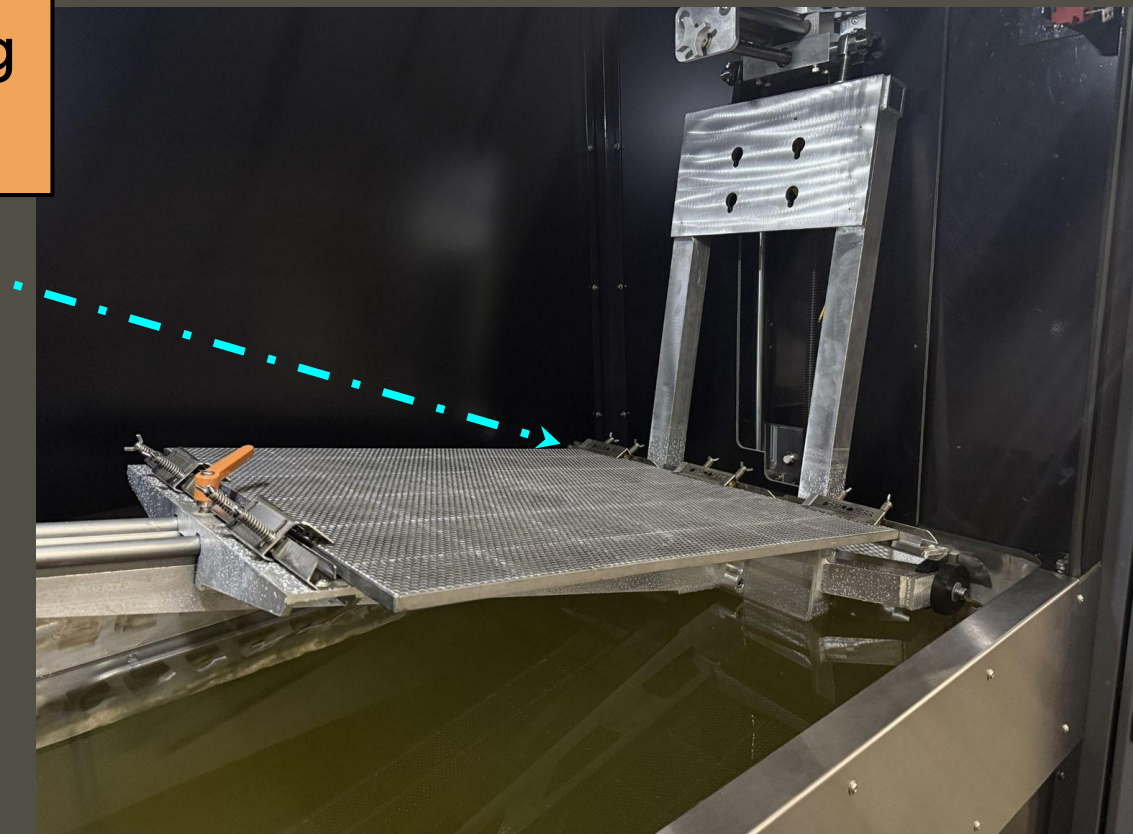
Dual agitation - 2 speed-controlled pumps, one supplying a vertical vortex manifold, the other supplying a horizontal vortex manifold



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



Adjustable tilt mechanism aids flow on downwards-facing surfaces

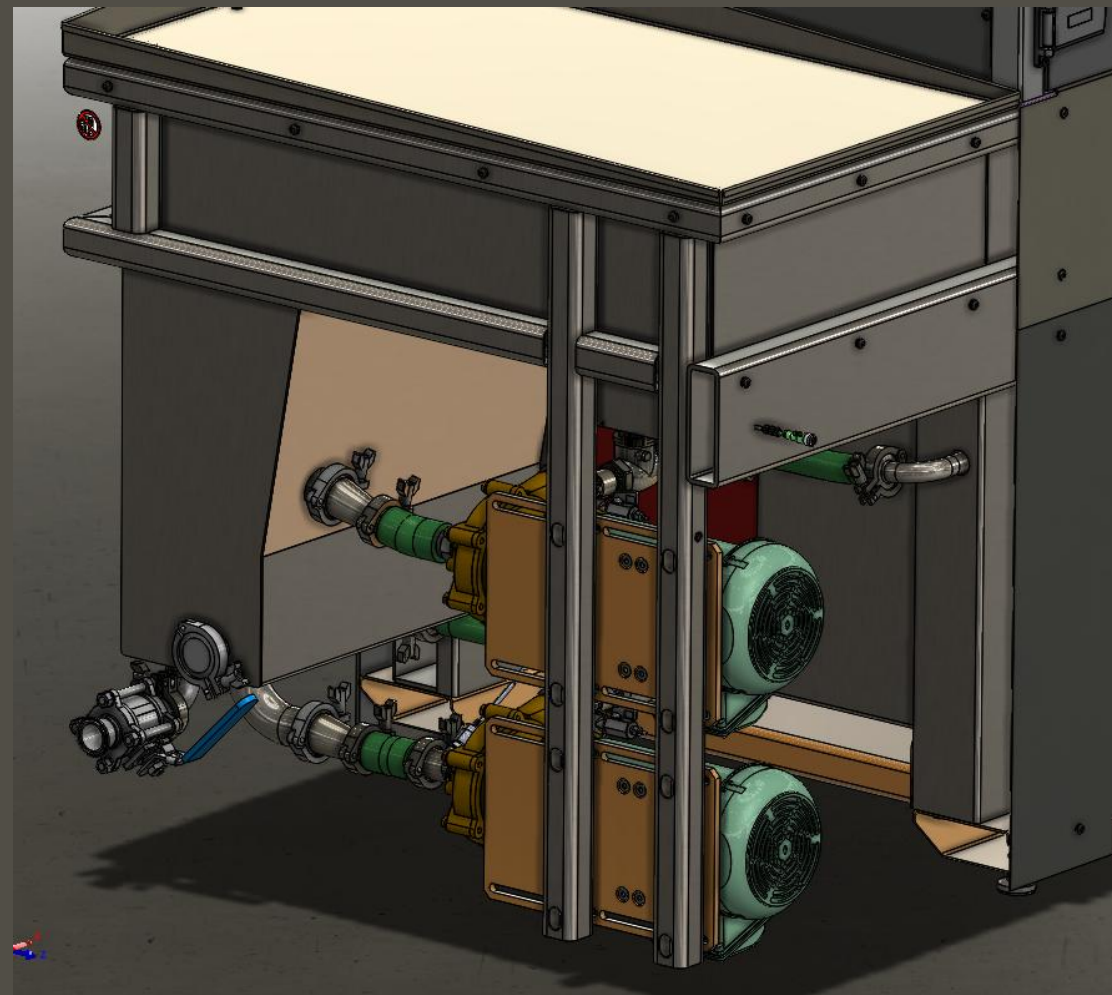


Spring-loaded claws grip build trays

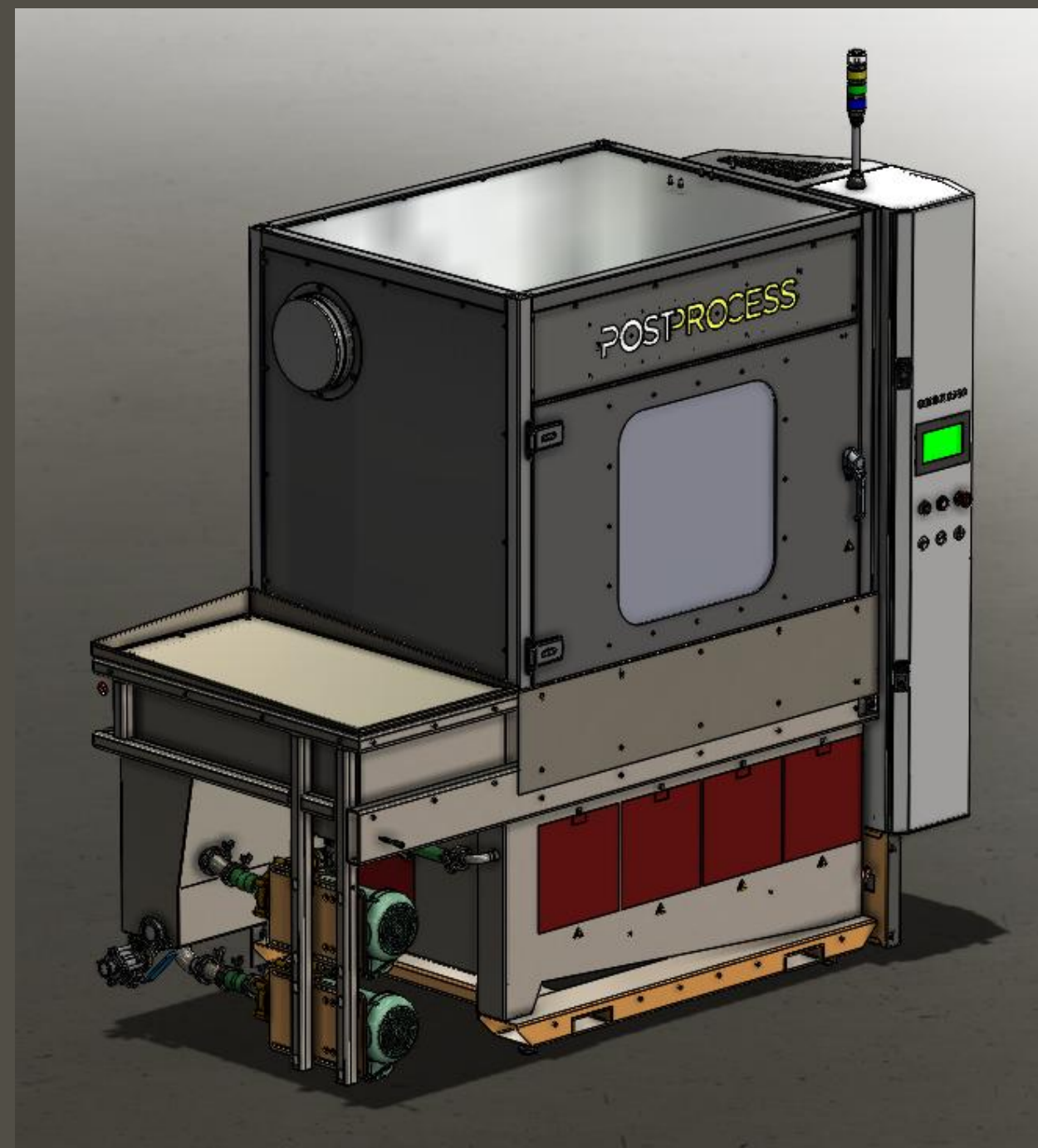


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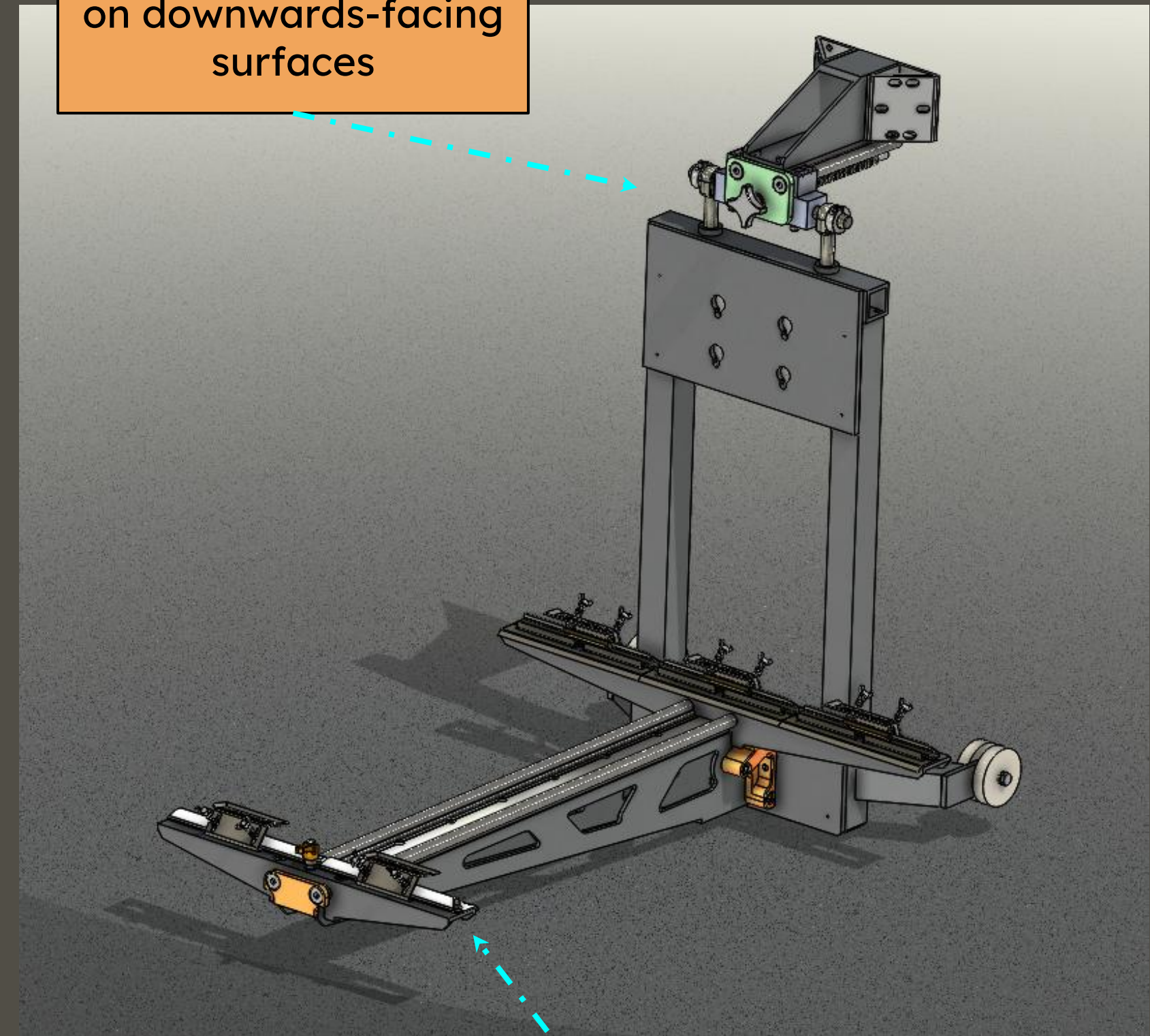
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