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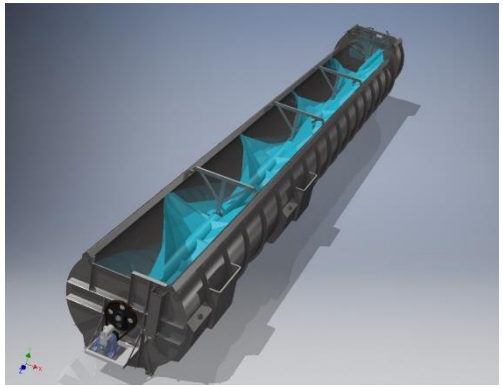
NEO CAT Auger Chilling System

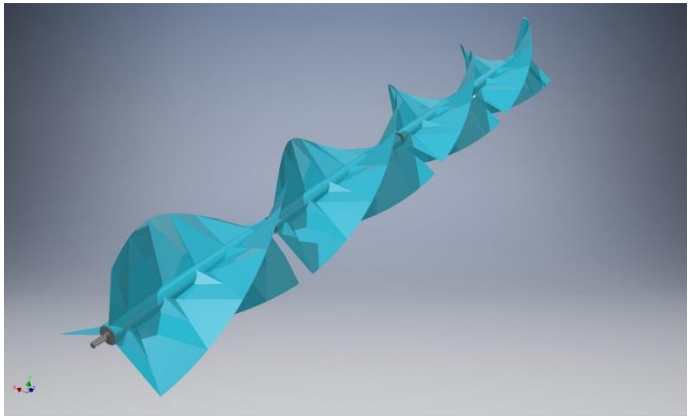
NEOCAT 2.0 Chilling System Topics

- **Design Goals**
- **Opportunities**
- **Improvements**

NEOCAT 2.0 Chilling System - Design Goals

- **Improved Bird Loading**
  - Increased water level without threat of “washback”
  - Increased pounds per foot of bird load (higher capacity per length of chiller than traditional auger)
  - Reduced system footprint
- **No Combos during employee break period**
  - Bird unloader turned off during breaks without overloading
  - No combos to rehang during breaks
  - Improved product flow down the line after the chiller
- **Reduce Air Agitation**
  - Reduced or smaller blower systems equal less installation and operational cost
  - Smaller blower systems decrease heat load introduced back into the chiller system





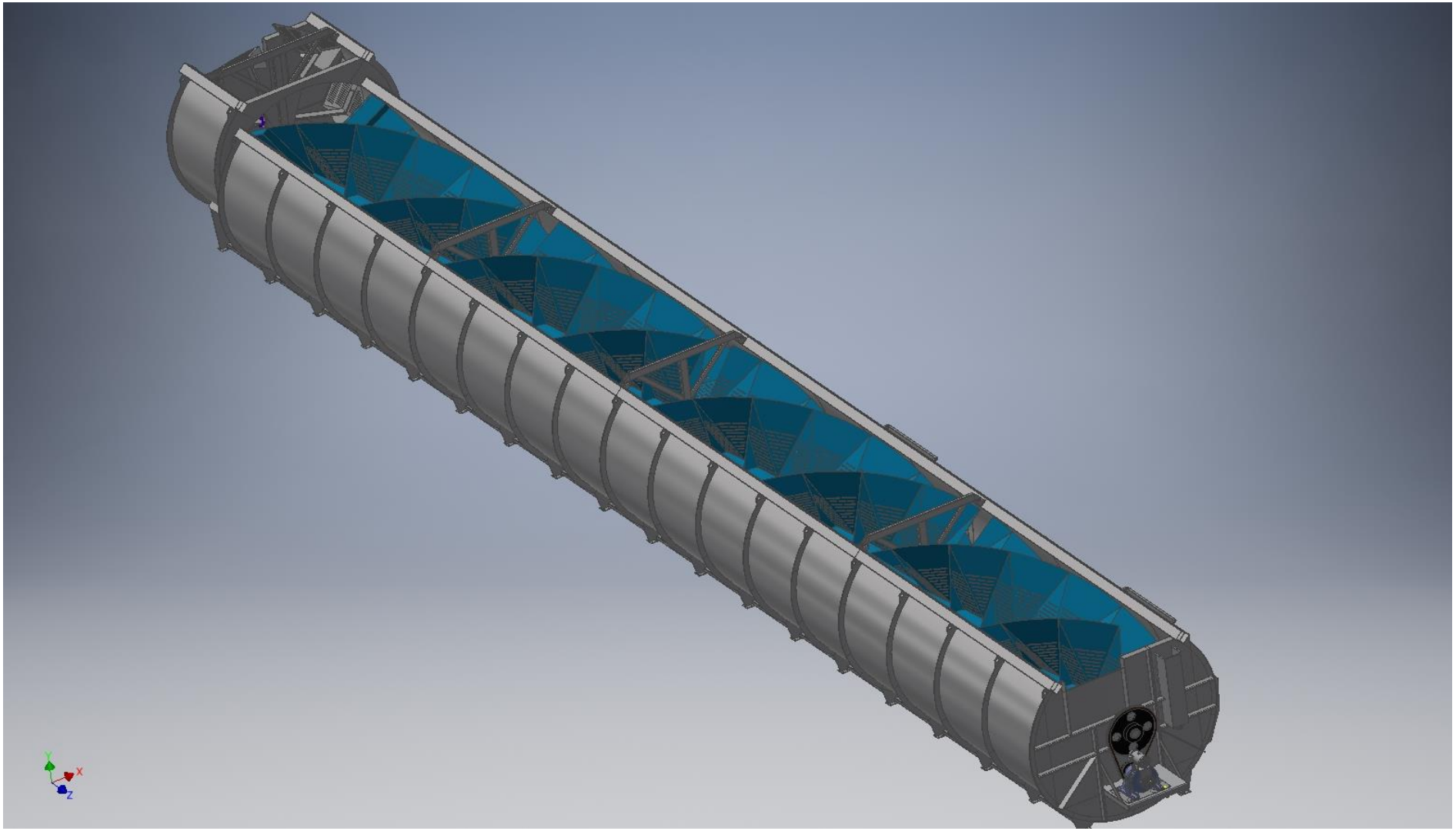
NEOCAT 2.0 Chilling System - Successes

- **Bird Transfer Through System**
  - Birds entered and exited the chiller in a manner that is similar to a standard rocker pre-chiller system
  - Provides proof that the drive and unload system are functional for the tested bird rates and increased water level
  - Birds can make temp with tested loads
- **No Combos during employee break period**
  - Bird unloader was turned off during breaks without overloading the system
  - No combos were needed during breaks
- **Reduce or Eliminate Air Agitation**
  - Reduced blower/air volume needed for the chiller to achieve tested operational functionality.

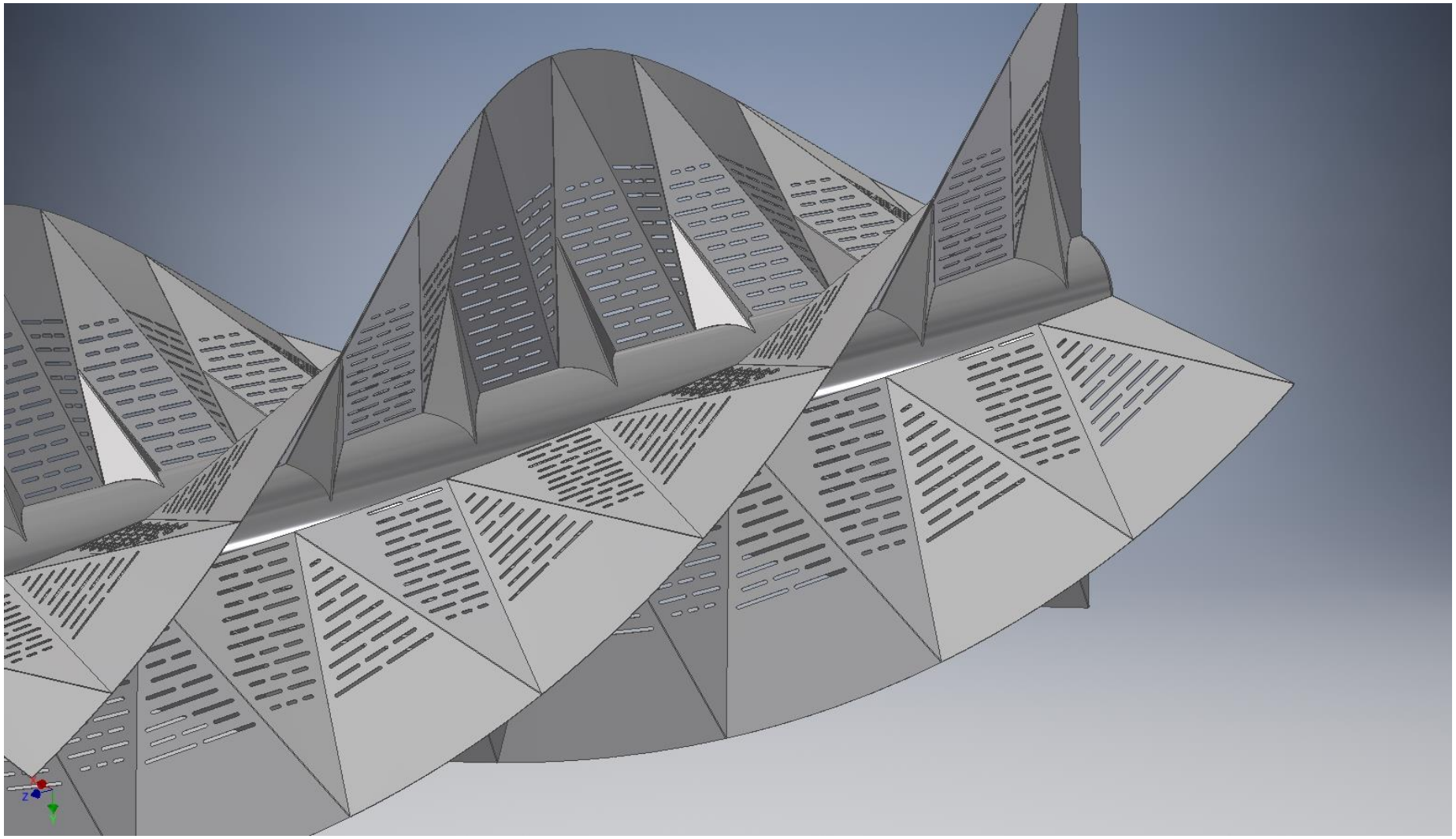
Increased Pounds Per Foot Loading

The new NEO Auger design increases pounds per foot loading by 30% over standard Auger design systems today.

NEO 2.0 New Design



NEO 2.0 New Design



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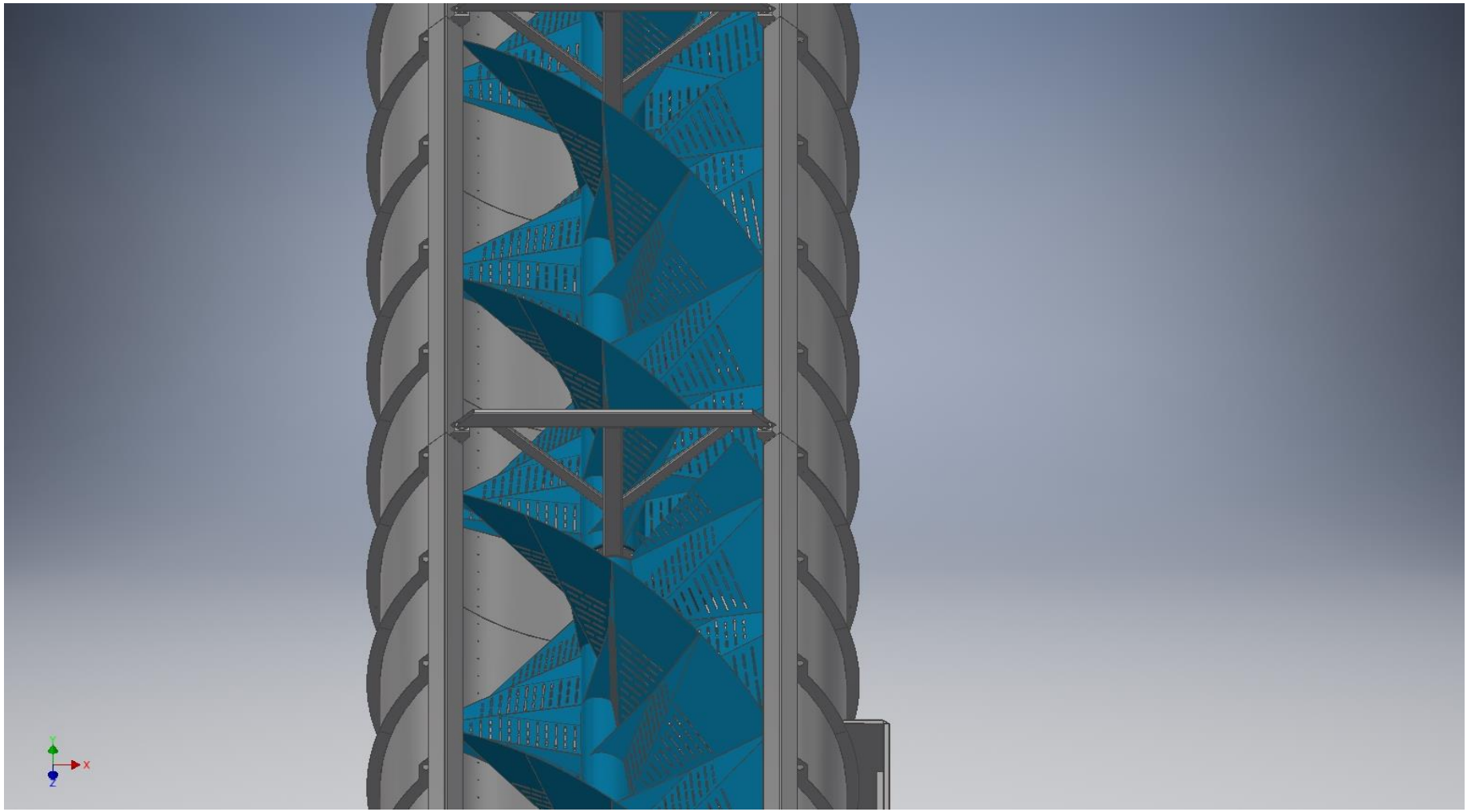

NEOCAT 2.0 Chilling System – Conclusions

- **NEOCAT will reduce system footprint**
  - 175 birds per minute is approved without inspection meaning that pounds-per-minute throughput will only increase
  - Estimated load rating at 2,200lb/ft is an increase over traditional auger rating of 1,600lbs/ft on the 12’ model. Each standard chilling system will be increased by 30% in pounds per foot loading.
- **NEOCAT will produce no combos during employee break period**
  - No unloading during breaks means better line flow
- **NEOCAT will reduce required blower system size**
  - Less blower reduces energy consumption and heat load through system