

RECONCEPT EQUIPMENT

FERROUS SEPARATION SYSTEM

MARCH 2022



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MADE IN USA

Designed and Manufactured in Dallas, Texas
Same Assembly Line as the Bravo Shredder

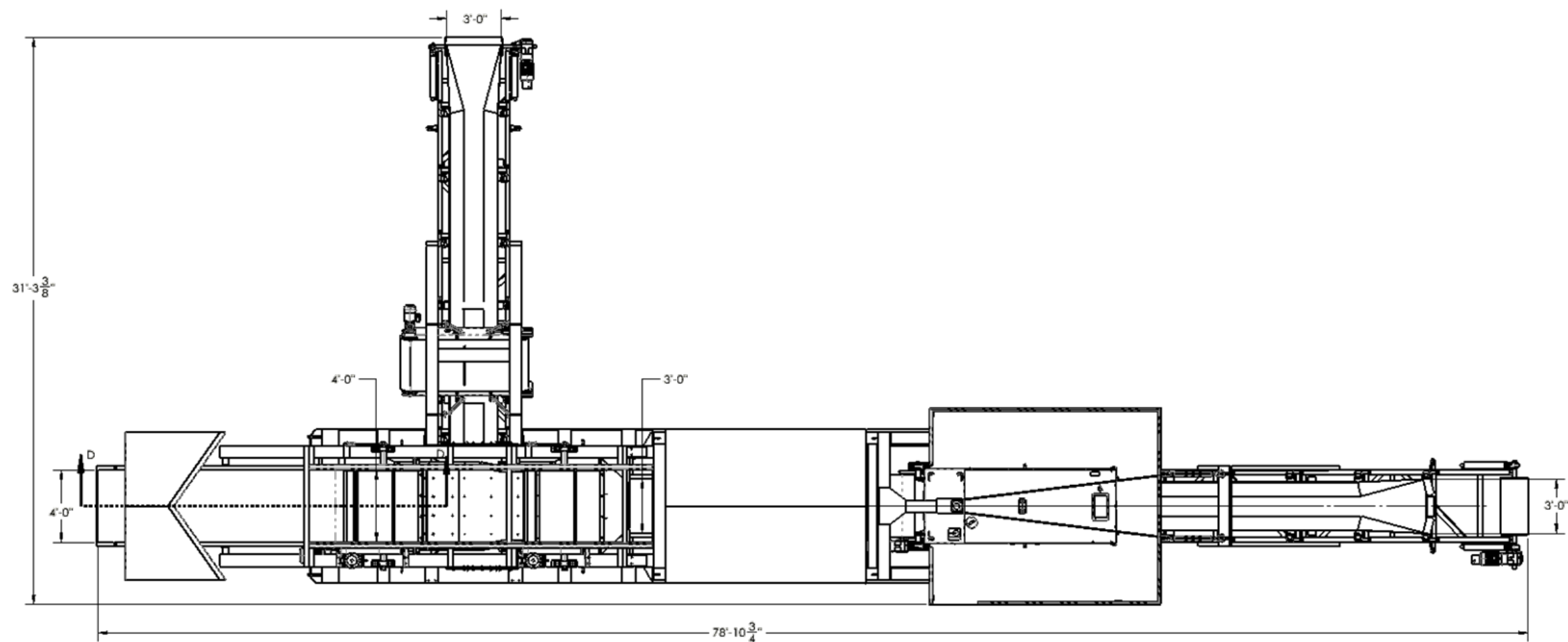


RECONCEPT MISSION

- The ReConcept unit is designed to separate Ferrous from Non-Ferrous material. It can be fed inline or at 90 degrees to adapt to different terrain configurations.
- The system is mounted on a skid to reduce footprint and operate in tight spaces while remaining a modular unit.
- Design has been simplified to provide better maintenance access and more reliability during normal operations. At the same time, it is manufactured with heavier materials for longer life.
- Standardization has been key part of the development to offer interchangeability of components like bearings, idlers, head and tail pulleys, conveyor belts, motors and gearboxes.
- Runs a double permanent drum fed from a conveyor and vibrating table, achieving optimum material separation, rated for 30 TPH. It is also equipped with a scavenger cross belt magnet to maximize ferrous recovery.
- Features an enclosed picking platform for additional sorting if needed.
- The Non-Fe conveyor discharges to either side of the machine to offer additional layout flexibility.
- The Fe conveyor rotates to maximize stacking capacity of Fe material or material sorting.
- The Reconcept operates off the grid with energy created by a XQ125 CAT genset or can be connected to the utility company if desired. This generator has the extra capacity to power the Eddy current unit, and other peripheral components, eliminating the need of another generator.

GENERAL DIMENSIONS

ReConcept footprint

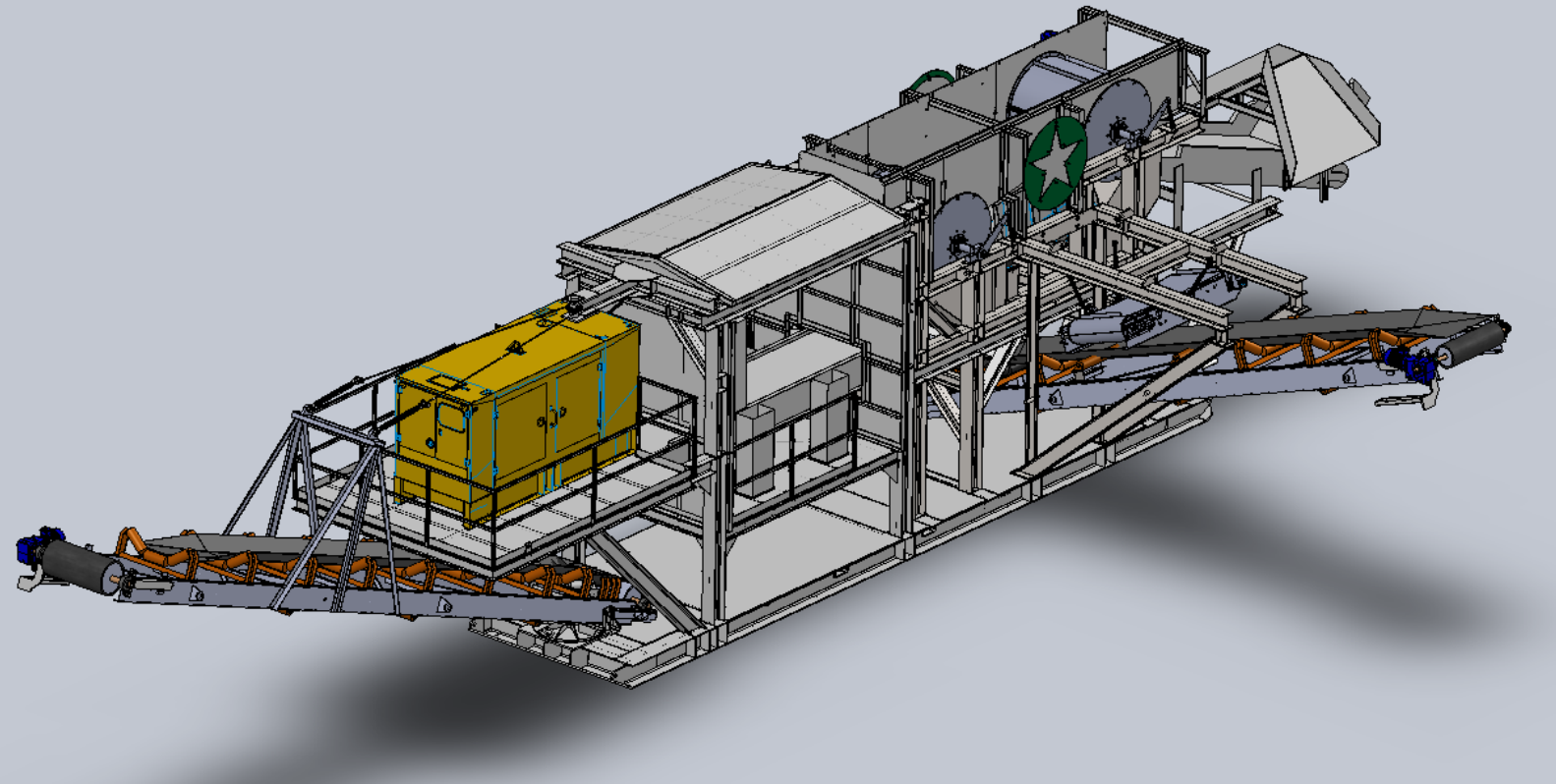
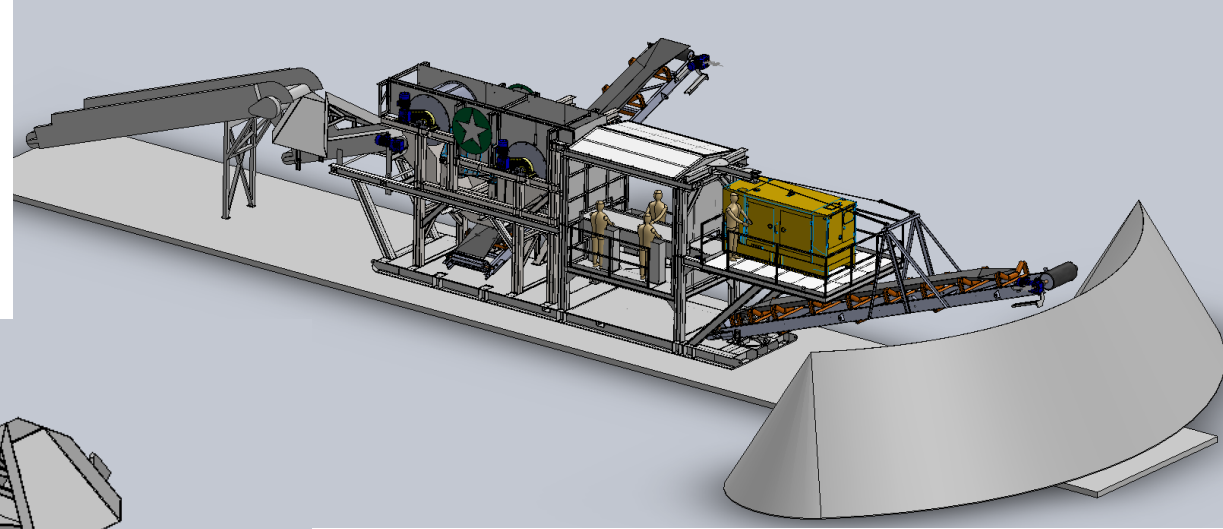


RECONCEPT GENERAL DIMENSIONS & COMPONENTS

Equipment list

- Skid main frame
- Poker diverter
- Magnet feeding conveyor
- Double permanent magnet drum
- Between magnet vibrator
- Non-FE conveyor
- Permanent cross-belt magnet
- Picking platform & conveyor
- Picking room enclosure
- Rotating FE stacker conveyor
- XQ125 Genset and platform

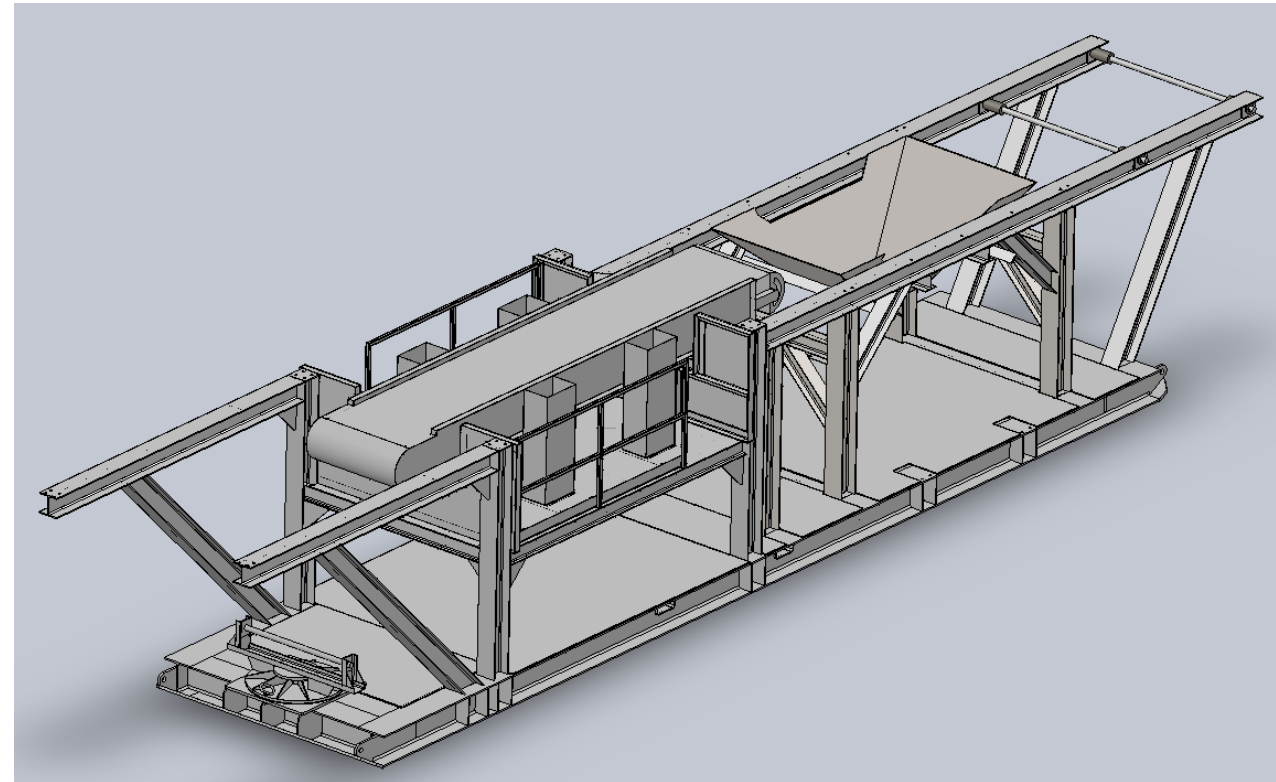
RECONCEPT 3D MODEL



RECONCEPT SPECS

Skid main frame with picking platform & conveyor

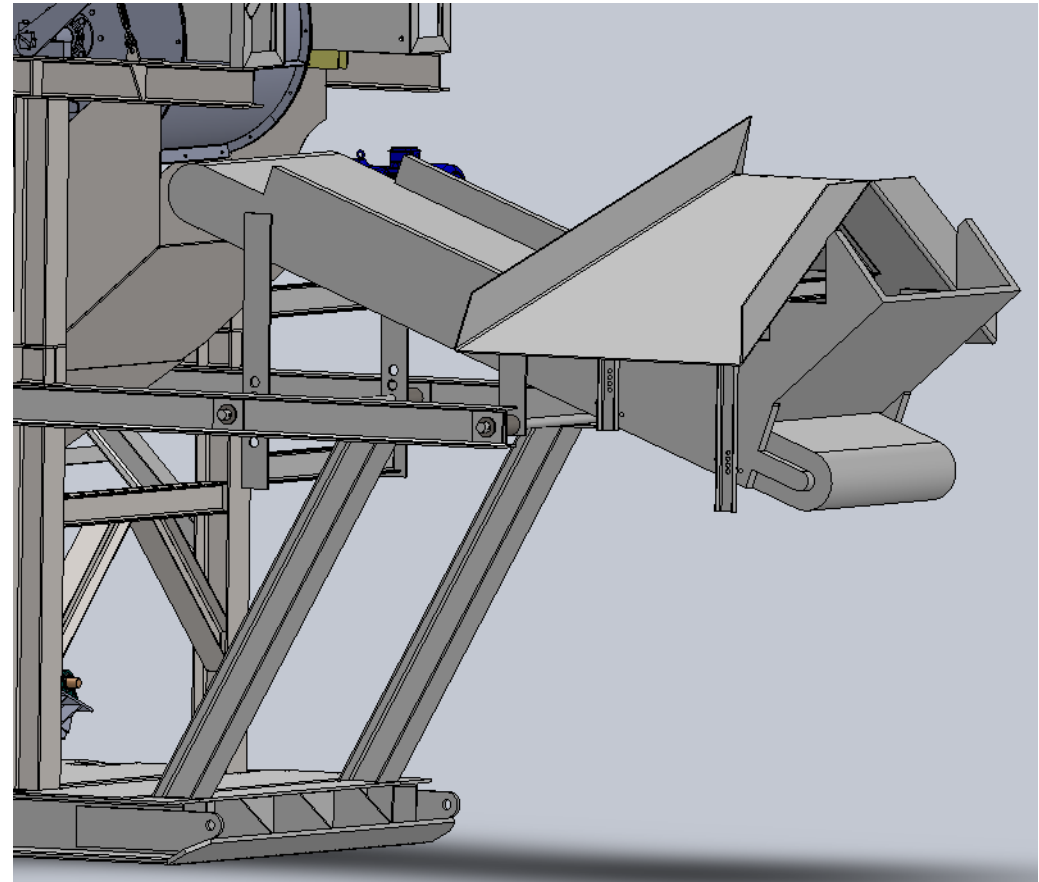
- Steel frame design for durability with W12x65 & W8x31 beams.
- The skid can be drag, hoist or lift with a forklift into final position.
- 17' x 36" picking belt
- VFD driven picking conveyor, target speed 150 FPM
- Picking platform designed for up to 4 people.



RECONCEPT SPECS

Poker diverter & magnet feeding conveyor

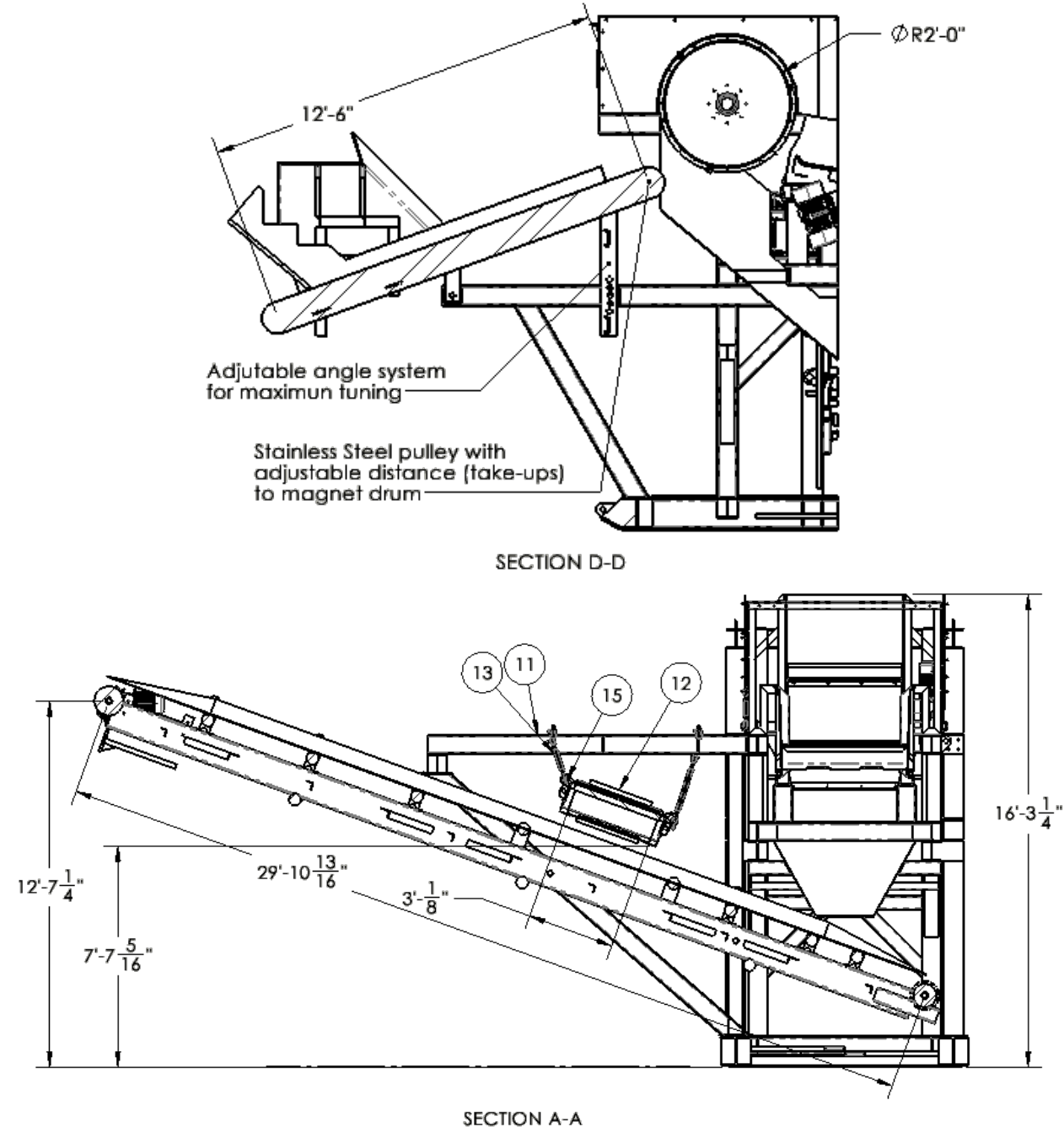
- Poker diverter
 - 3/8" tick plate
 - Pin Height adjustment
- Magnet feeding conveyor
 - 13' x 48" flat belt
 - Stainless steel head section
 - Adjustable conveyor, length and angle for better tunability
 - VFD driven picking conveyor, target speed 400 FPM



RECONCEPT SPECS

Magnetic separation system

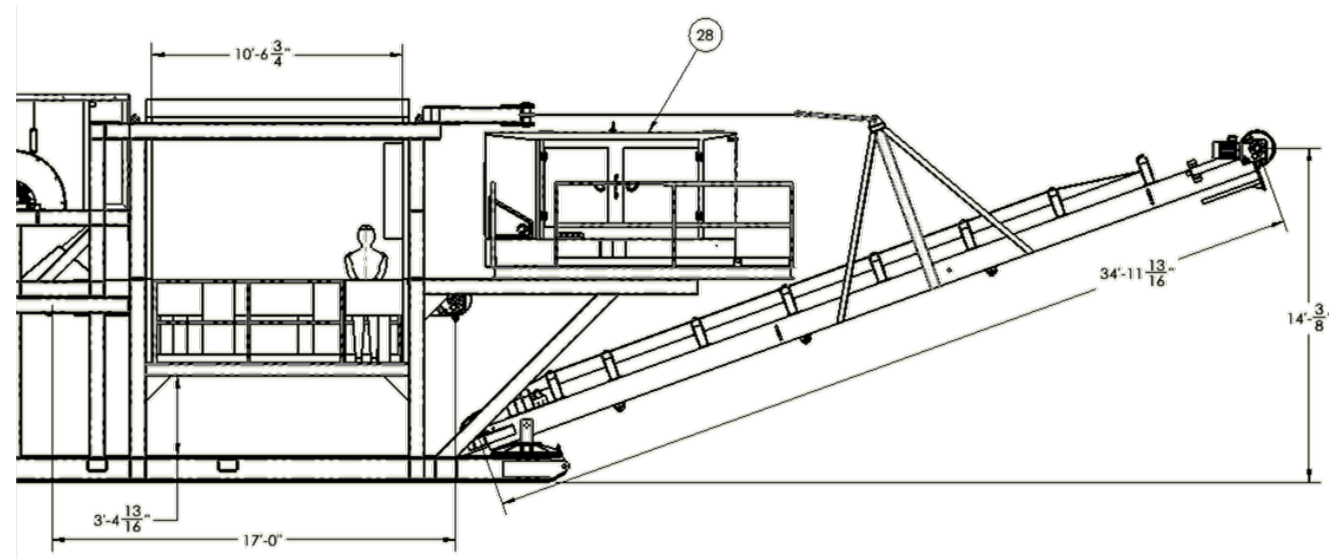
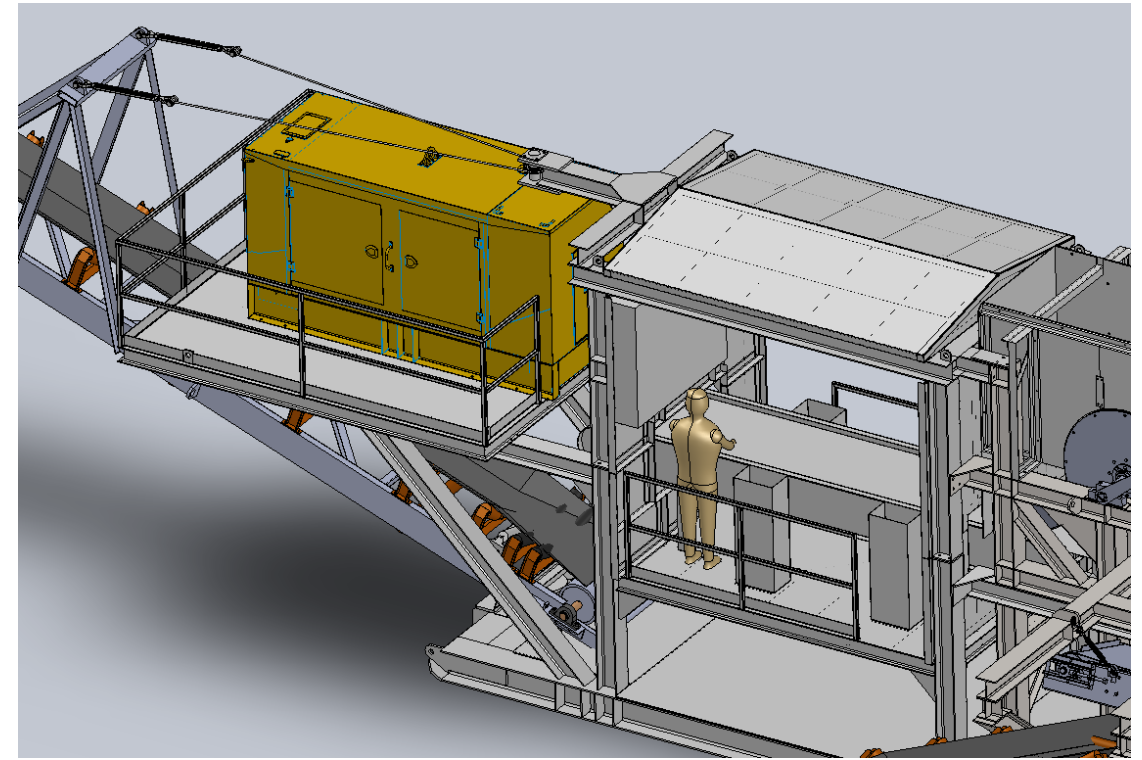
- 48"x48" double permanent magnet drum with manganese replaceable shield plates & magnetic adjustable pickup points.
- The magnet house is enclosed to reduce side spillage.
- Between magnet vibrator with stainless steel head and dual unbalanced motors.
- 30' x 36" VFD hybrid troughing Non-FE conveyor with stainless steel insert and a target speed of 250 FPM.
- 7.25' x 36" permanent cross-belt magnet running at 380 FPM



RECONCEPT SPECS

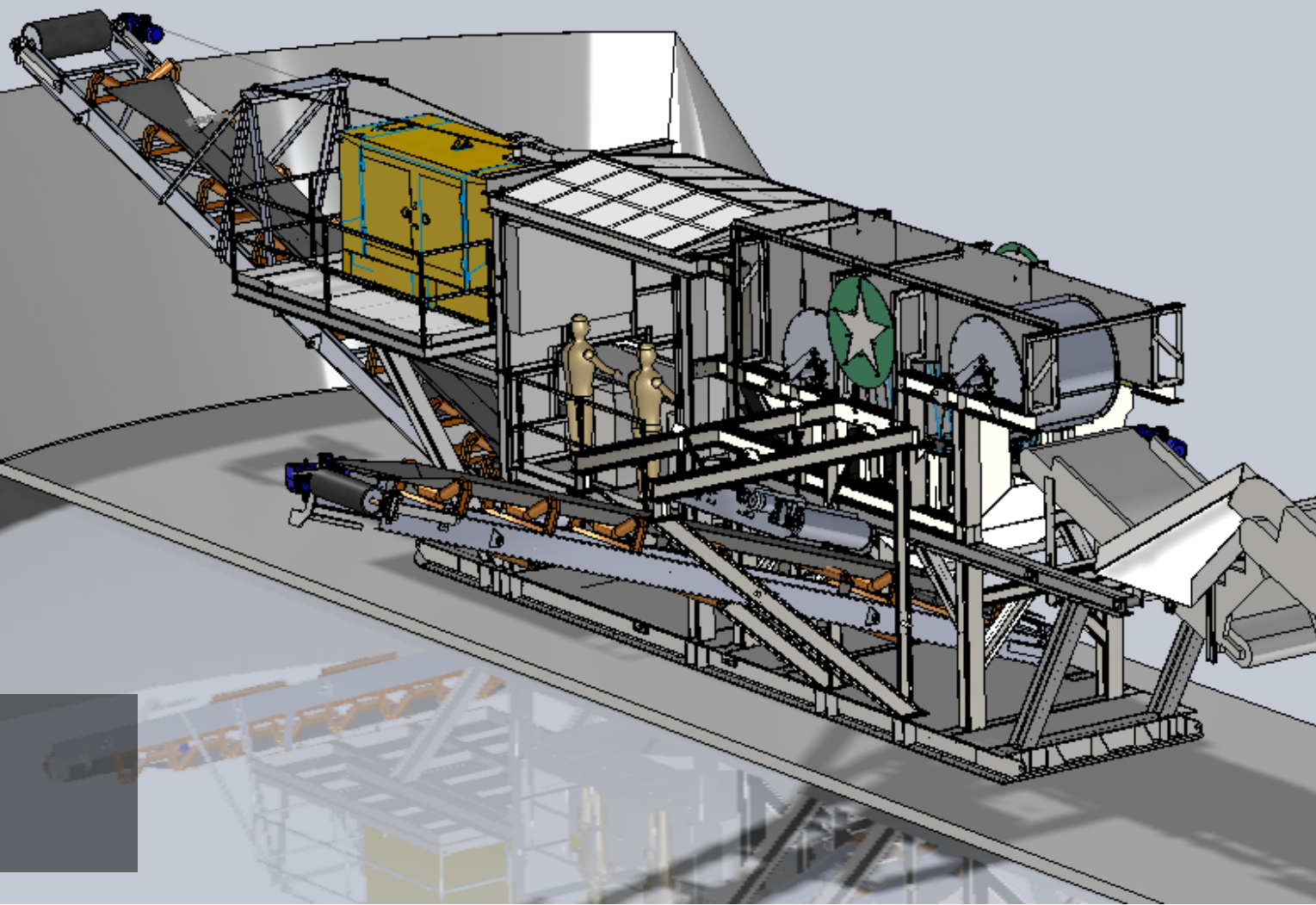
Picking area, FE stacker & genset platform

- FE conveyor support structure doubles as a roof frame for the picking station and offers a robust pivot system for the stacker. The 35' x 36" trough conveyor allows for a 12' high FE material stacking wall, running at 250 FPM.
- The XQ125 genset is a Tier 4 final, running a C4.4 water cooled diesel engine & provides 100kW, which is more than enough to power the entire downstream and the Eddy current unit.



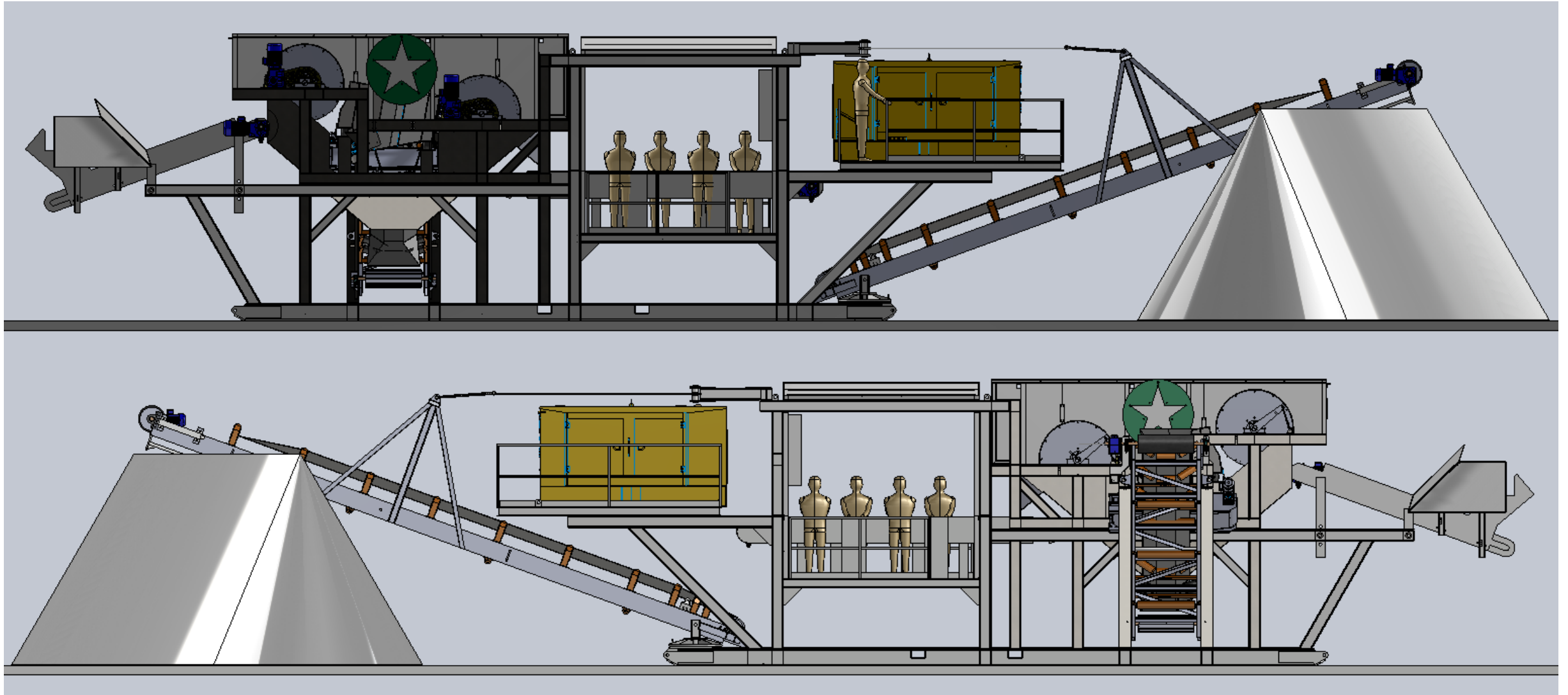
MODEL IMAGES

Isometric view



MODEL IMAGES

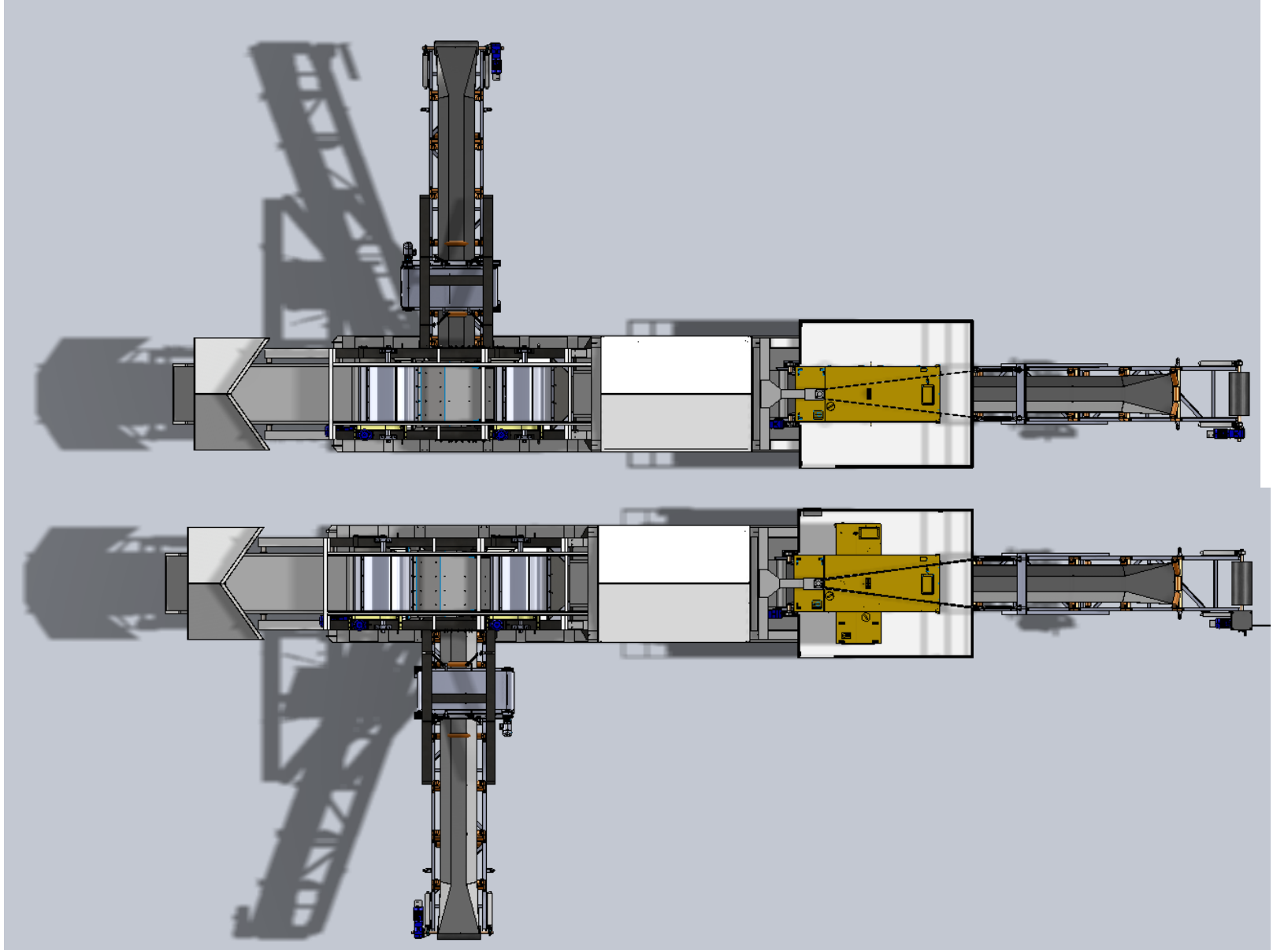
Side view



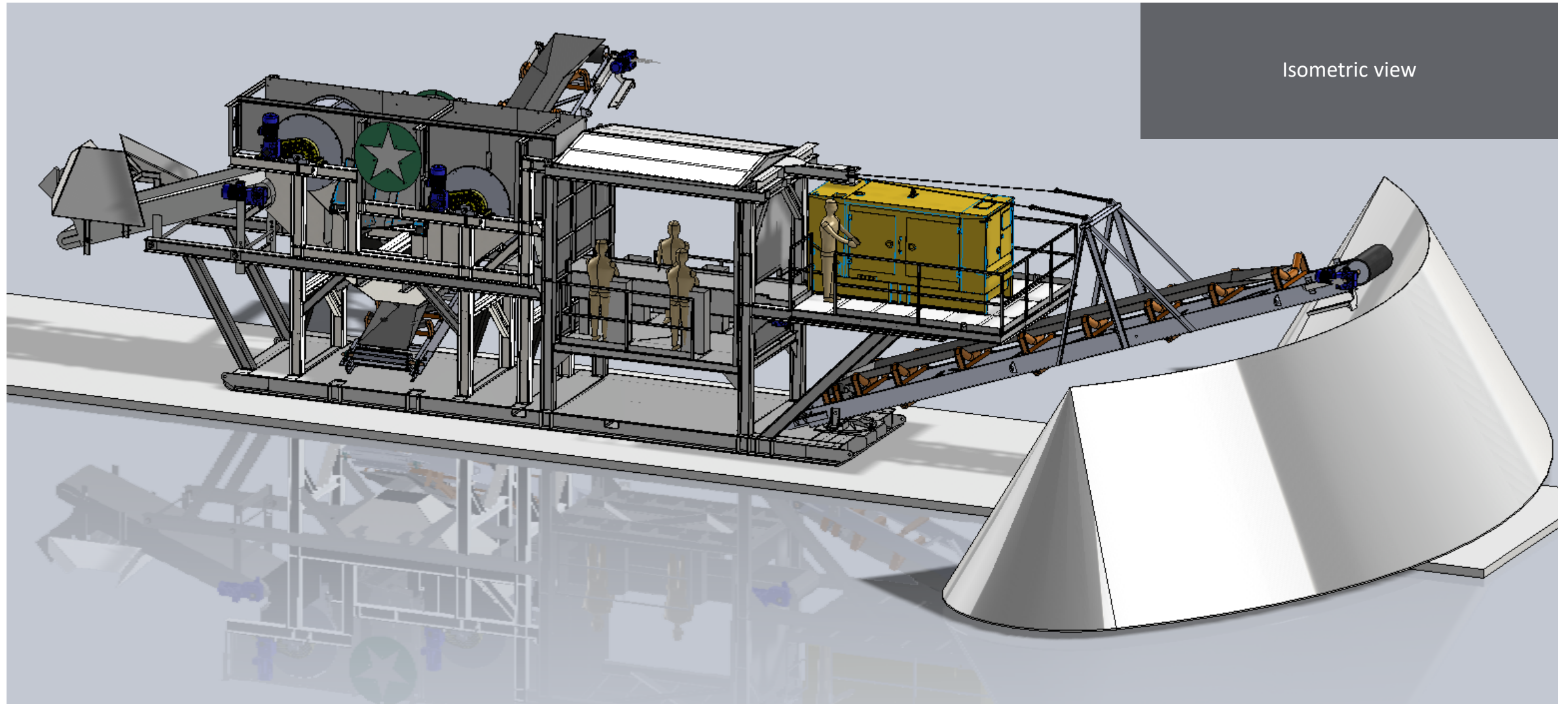
MODEL IMAGES

Left hand Non-FE discharge

Right hand Non-FE discharge



MODEL IMAGES



QUESTIONS OR COMMENTS?

VISIT

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