

# AEROGate

30" x 30" Vacuum - Gravity Sugar



## Gate Specifications

Bolt-On Working Points	45-3/8" x 43-3/8" (Nominal 30" x 30")
Bolt Hole Pattern	66 Holes
Opening Size	30" x 28"
Gate Depth	11.128"
Weight	1030 lbs.
Bottom Frame Opening	32-1/2" x 23"
Distance—CL of Gate to End of Open Door	60-1/16" (TOP) 71-11/16" (BTM)
Vacuum chamber cutout pattern	Various Patterns Available
Vacuum nozzle diameter	6" ID, 6-1/4" OD*

- Only Gate of it's kind with GEAPS approved automatic locks
- Dual gate slides produce a sanitary plenum chamber to boot up to for boot-gravity unloading equipment
- For vacuum unloading, when door is throttled open to positions clearly marked on gate frame a cascade of commodity falls over the edge of the door slide, serving to break up large clumps and effectively empty hopper
- Opened lower door completely exposes vacuum chamber allowing for complete clean out every time
- Countersunk seal bolts give the hopper a completely smooth surface providing smooth commodity flow and simplifying cleaning
- High endurance UHMW wiper seals create a near water tight seal while cleaning commodity from door slide
- Bronze glide rails significantly reduce operating torque and wear over time
- Available in stainless steel, Aluminum, or Food grade epoxy powder coated steel
- Recommended Service: Sugar, sensitive food commodities
- \* - Can also be made with Cam-Lock style fittings or double sealed vacuum cap if needed

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Independence, MO. 64051

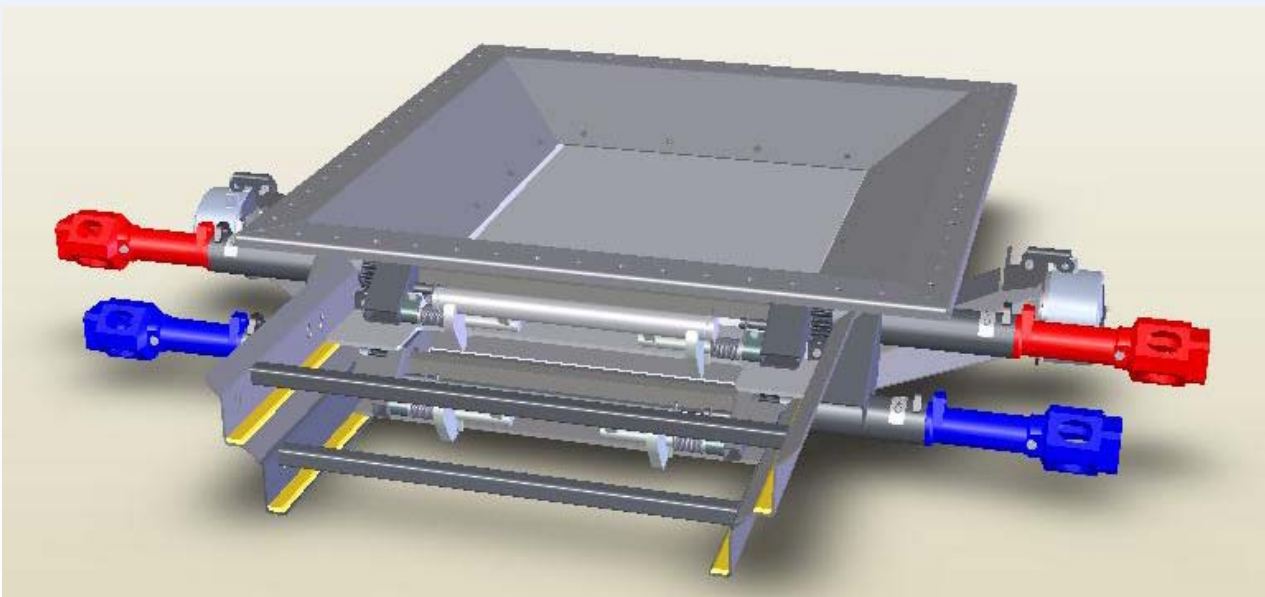


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Web Site: [www.aerotransportation.com](http://www.aerotransportation.com)

## 30" x 30" Vacuum - Gravity Sugar

Our dual door, dual drive vacuum-gravity gate is designed specifically for sugar and sugar users. The only gate accepted for sugar service with fully automatic locks (as suggested by AAR S-233).

The entire gate frame is typically constructed of 304 stainless steel with bronze glide surfaces, minimizing rust and wear over time.



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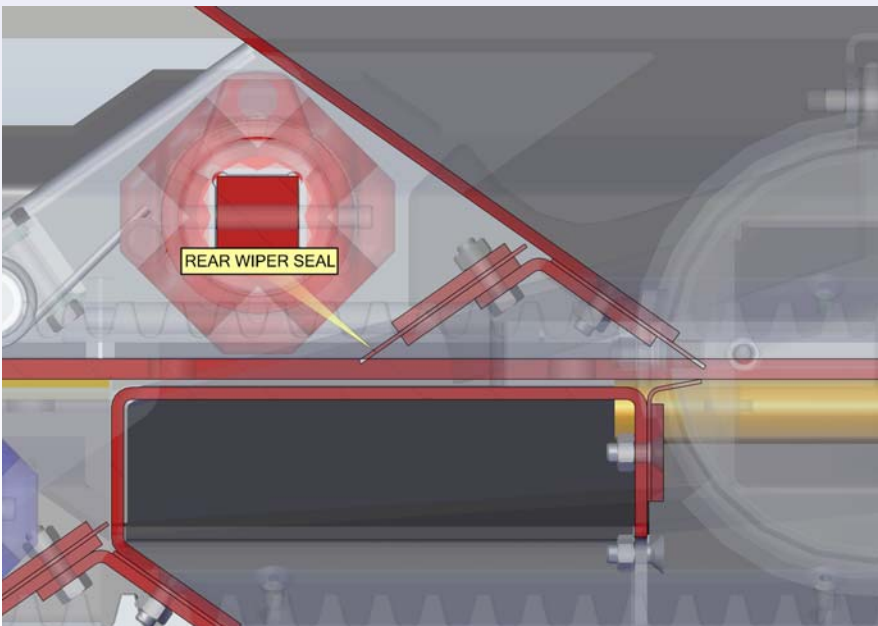
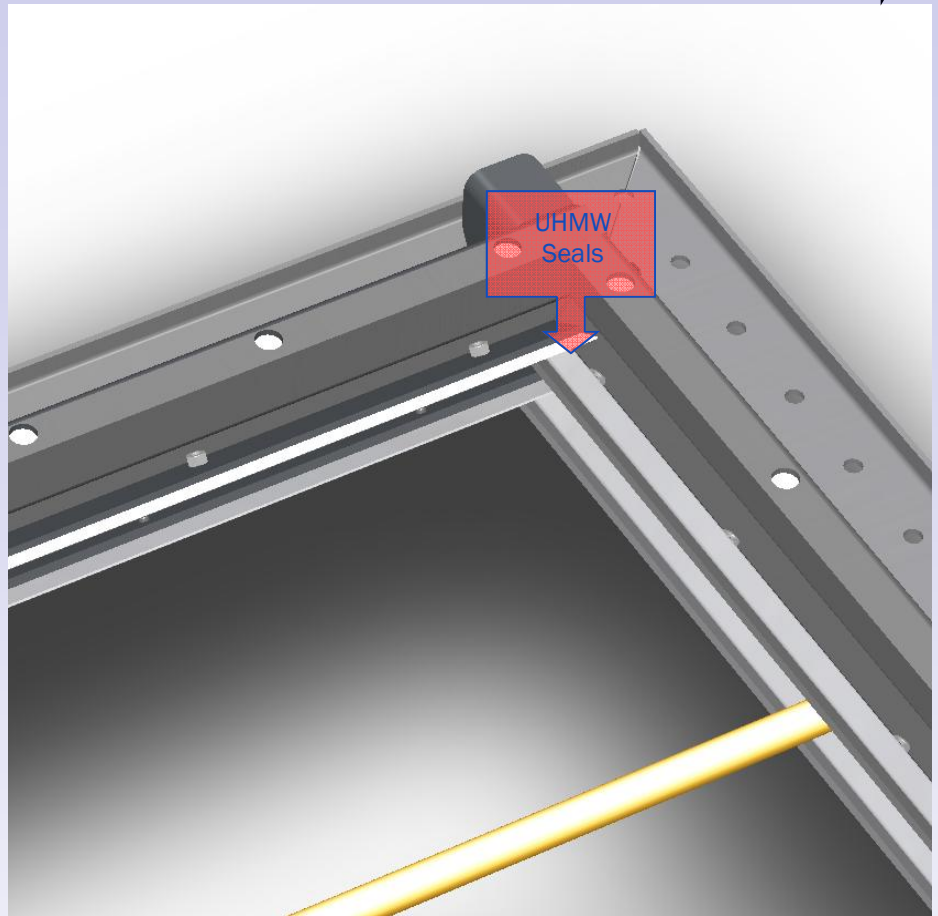
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Food safe UHMW-PE seals keep the commodity in the car with no leakage.

Rear wiper seals also keep water and dirt from leaking in.

Seals are flexible, long-lasting, and self-cleaning.

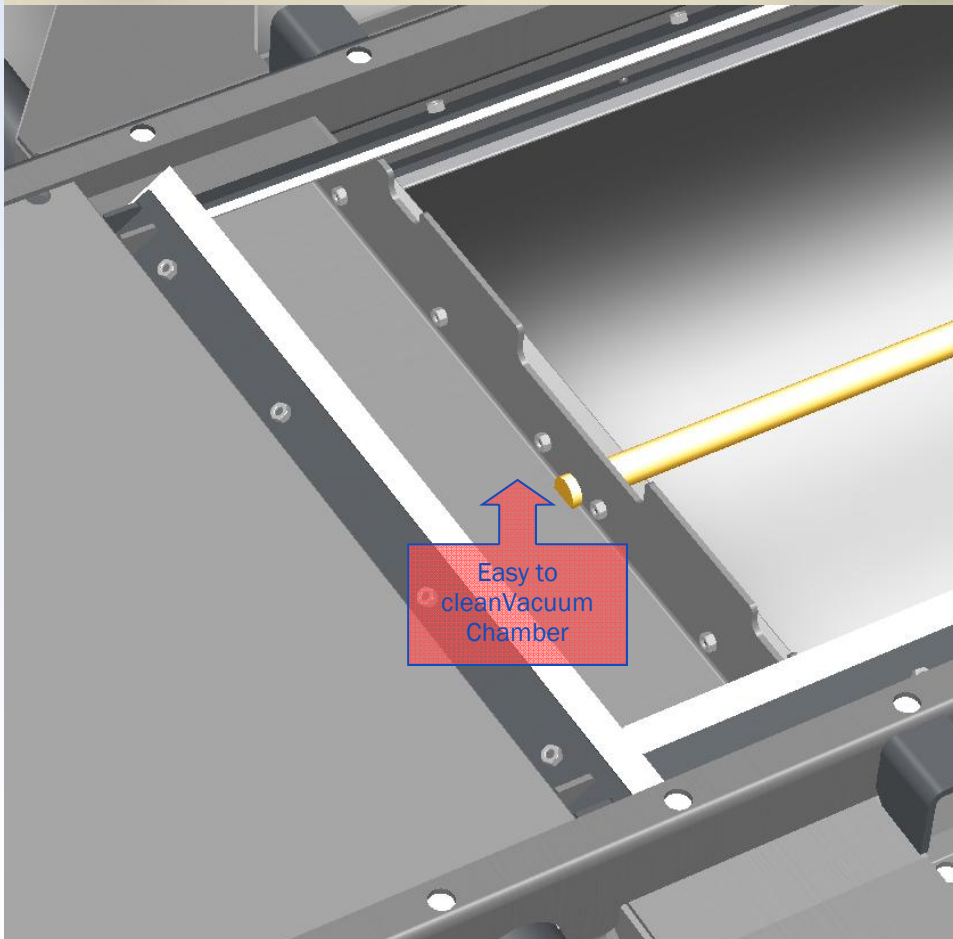
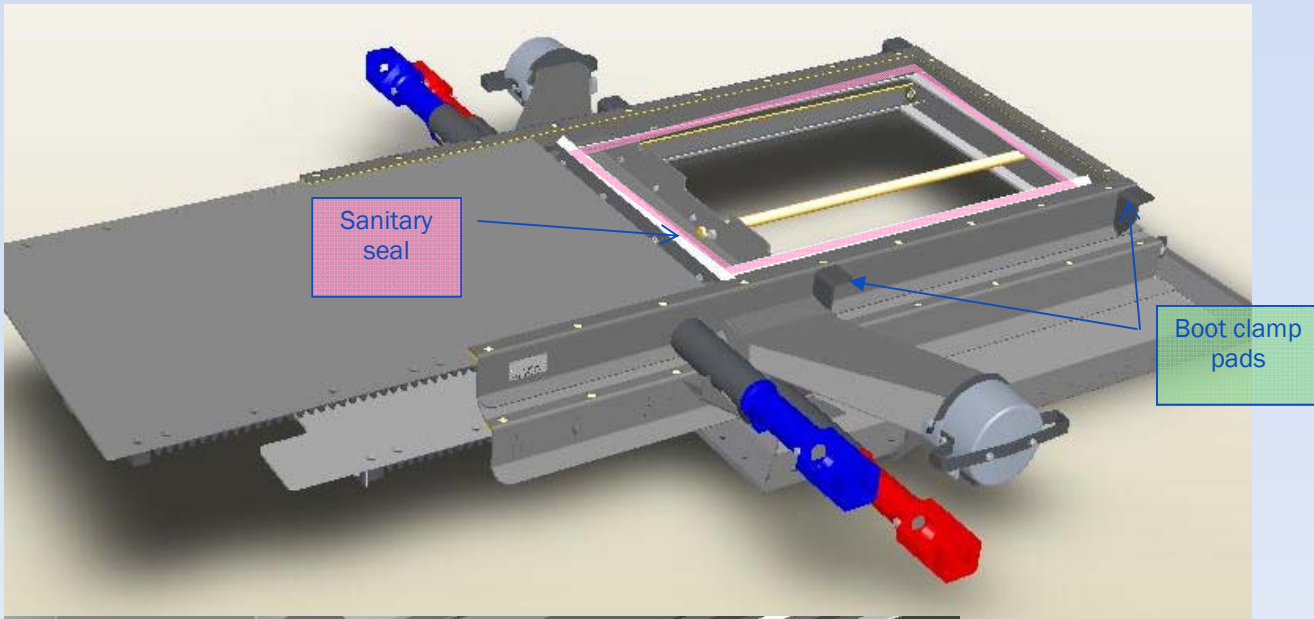


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The gate is fully capable of gravity unloading, and optimal for boot unloading.

The only gate with a fully sanitary seal to boot up to. Simply open the lower door completely (with upper door still closed) to access the lower sanitary seal surface.

In addition, when the lower door is fully open, there is open access to the entire vacuum chamber for easy cleaning if needed.

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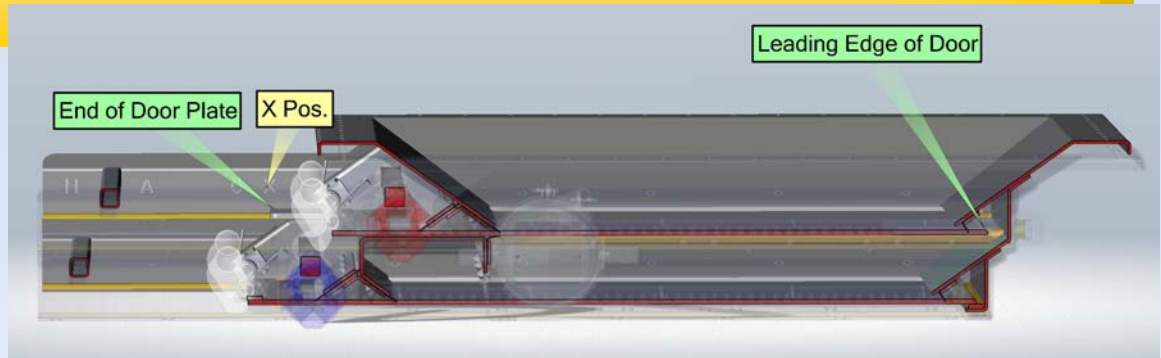


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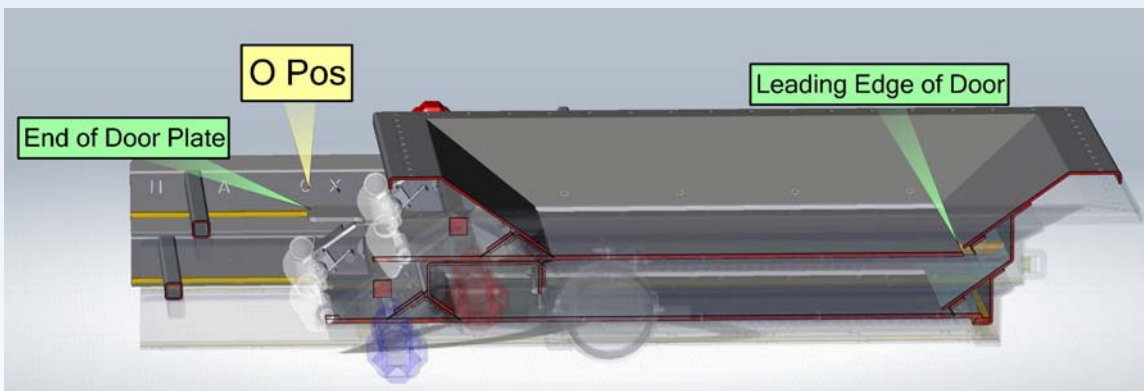
# 30" x 30" Vacuum - Gravity Sugar

Pneumatic unloading is simple. Simply break the security seal on the vacuum cap, twist and pull the vacuum cap off the nozzle tube. The vacuum cap has a chain attached to eliminate the possibility of misplacing the cap while the car unloads. Then, slip a 6 - 1/4" ID vacuum hose over the gate nozzle tube. The suction holds the hose in place.

With the lower door fully closed, the upper door (red drive) needs to be throttled open intermittently. The side of the gate frame (towards the rear of the upper door slide) has clearly identified position marks (X, O, A, 11) that help in identifying the location of the leading edge of the door.

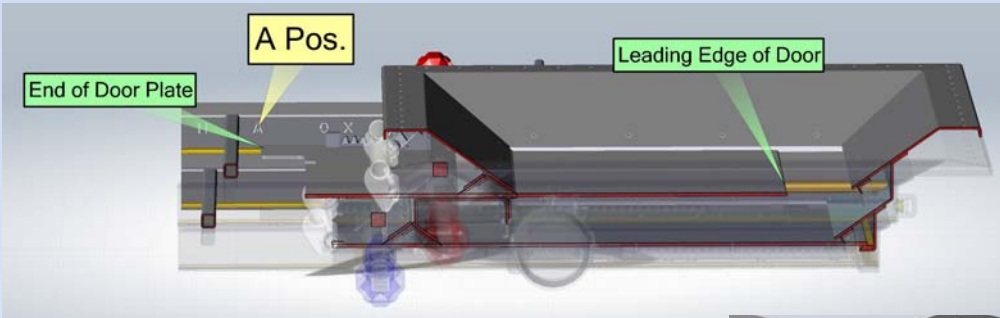


**X Position**—Fully Closed, Leading edge is completely sealed.

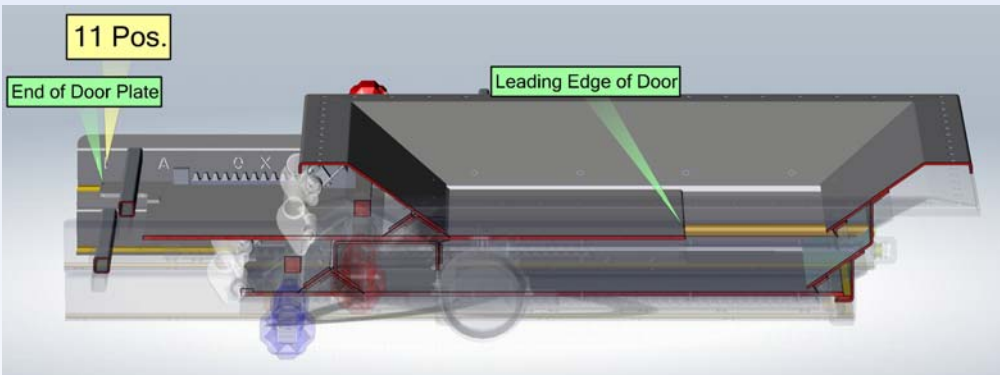
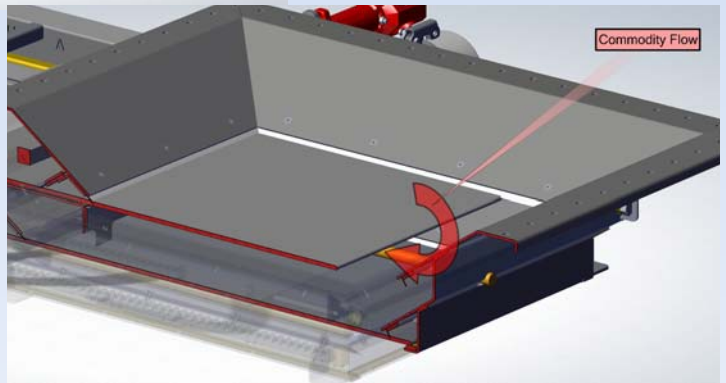


**O Position**— Leading edge is starting to disengage from front seal. Minimal commodity flow.

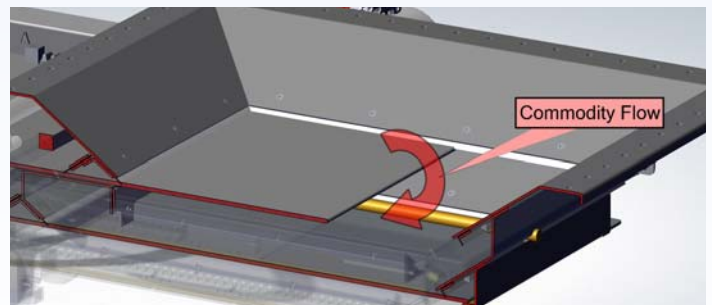
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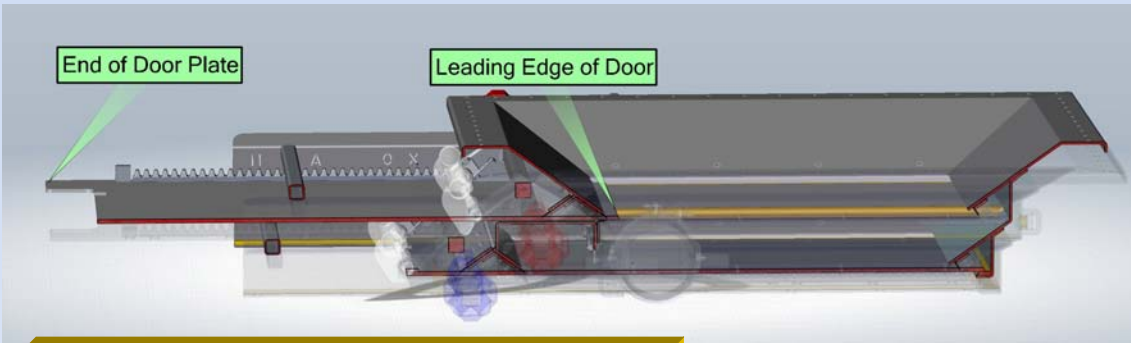
**A Position**—Leading edge is open approx. 6 inches. Commodity starts to flow over the leading edge of the door.



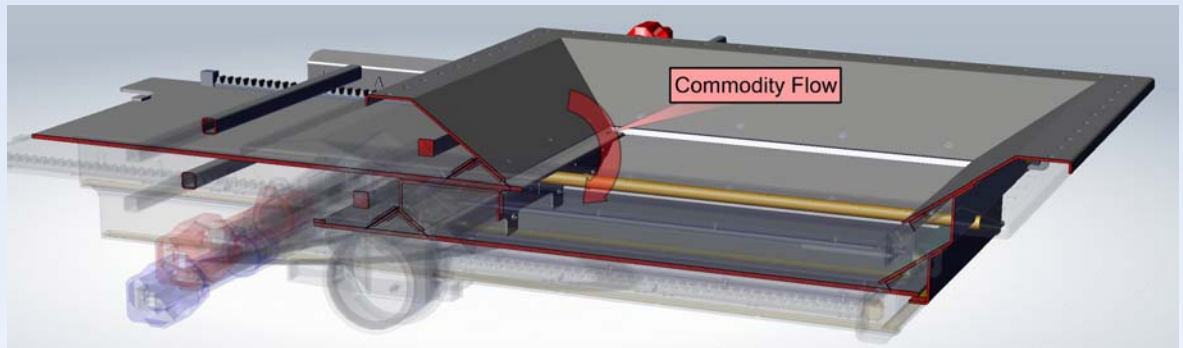
**11 Position**—Leading edge is open approx. 11 inches. Commodity continues to flow over the leading edge of the door.



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**Fully Open**—Leading edge is just shy of the edge of the rear UHMW seal, allowing for complete hopper cleanout.



Similar models are available with a "cam-lock" type fitting if there is a need for a more precise connection.



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**We've Got You Covered...Top And Bottom**