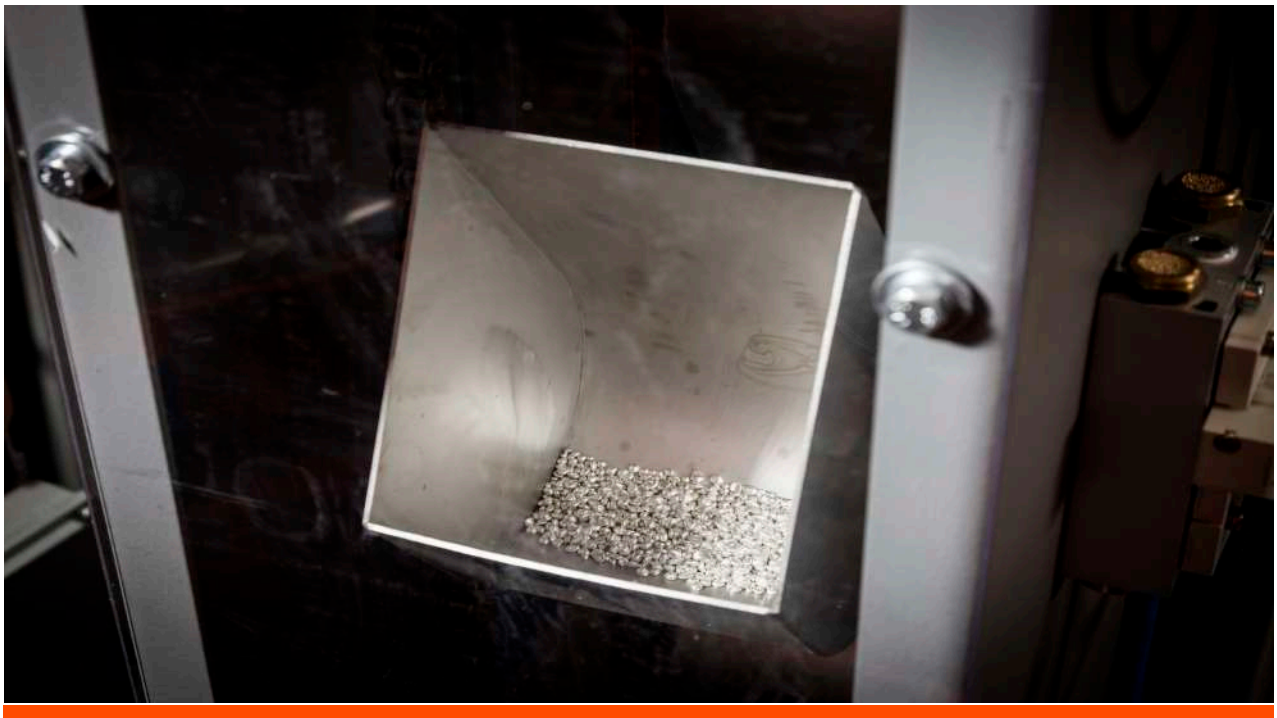


Smart Manufacturing for the Future

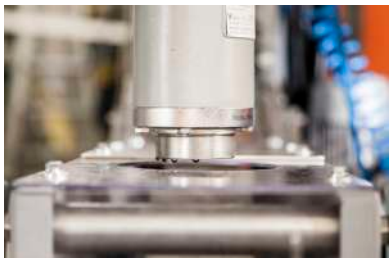
Grain conveying systems

Solutions for the transfer of PM grains

T-LIFT

T-Lift is a **vertical bucket conveyor belt with a unique shape**. Thanks to its Z-shape , the buckets can move in a circle in **perpetual motion**, exponentially **increasing the speed and autonomy of metal grain batches** - whether it be gold, silver, copper, brass, etc. - from and to any hopper type.

Thanks to its efficiency, it can be installed **next to any elevated loading area**, so as to fully **optimize working time**. Moreover, thanks to T-Lift™, tasks are **safer** for operators, who are not at risk of falling, and material dispersion accidents are reduced.




T-DOSELIFT

T-Doselift is an **automated bucket conveyor belt for the transfer, weighing and discharge of fine PM grains or crystals** into the ingot molds or other destinations.
The grains (or crystals) are **discharged at synchronized pace** from the **Transfer Hopper** into the T-Doselift containers, by means of the **double Pinch valve system**.
Thanks to this system the batch of grains sent to the bucket conveyor belt is perfectly synchronized with buckets motion, assuring the automatic and continuous process.
A **load cell system** integrated at the level of the T-Doselift discharge hose collects the grains and checks the weight, allowing the final discharge of the grains or crystals into the carbon mold only when the target weight has been reached.
The discharge occurs by the opening of a proper **pneumatic discharging valve.**
The system is complete with **inspection window, compressed air blowing** for the total discharge of the grains and **recovery drawer** in the lower level.
The system also includes **software integration for a continuous reading of the load cell data into the T-Doselift HMI.**




T-HOPPER

T-Hopper is a **wheeled hopper** necessary to feed grains into the T-Lift bucket conveyor belt, which will finally convey them to their destiantion area. T-Hopper is fed manually by an operator. The **discharge of the grains** from the hopper occurs automatically and in sync with the T-Lift pace thanks to the double pinch valve (working with 2 pneumatic membranes).