



Solution Spotlight:
*Automation Solution for the Recovery
of Precious Metals*

2021



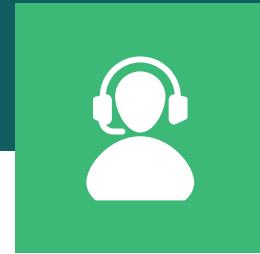
Customer Problem

A customer was looking for a safer, more automated and efficient alternative to manually shearing and separating catalytic converters and the precious metals they hold.



AMOS Solution

Amos designed a shredding and separation system that automates the handling and processing of catalytic converters. At the heart of the operation was the AMS QS42300 Quad Shaft shredder that particulates catalytic converters exposing the valuable precious metals found inside.



Why Choose AMOS

Expert application knowledge to help select the best solution combined with quick quote response, competitive pricing and on-time delivery.



The customer was originally using a conventional manual shearing operation to cut open catalytic converters and expose the contents. This process was very manual and labor intensive.

Amos Mfg., Inc. designed a system that included a sort line with container dumpers to dump bins of converters onto sorting conveyors. The sort line feeds an incline conveyor that delivers the catalytic converters to the 300 HP Quad Shaft shredder. A vibratory screen deck beneath the shredder separates the catalyst from the steel housing. The steel is then conveyed outside the facility into a scrap container while the catalyst is conveyed across a rare earth magnet to remove any fine steel. The catalyst is then captured in containers to be sent for further refinement and separation of the precious metals.

The system improved worker safety and increased daily production of catalytic converters by up to five times over the previous production method. The customer is now able to process up to 1000 converters per hour.

About Us

Amos Mfg., Inc. is a US manufacturer of industrial shredding and separation equipment with over 40 years of experience. We have an international presence and reputation for providing quality equipment that will stand up to various industry demands.

Amos has been a leader in manufacturing shredders for electronic scrap recycling, secure document and electronic data destruction, primary size reduction, and volume reduction for a wide range of industries. Our engineering and manufacturing capabilities allow us to help our customers meet their destruction needs.