

Trantec Solids Handling Limited is a leading supplier of Powder Dosing, Metering and Filling equipment to the worldwide Solids Handling industry. With over 20 years of experience designing equipment such as Metering Screw Feeders, Filling Machines, Batching Systems and Powder Samplers, we decided to take on the challenge of manufacturing our own auger-screws in-house.

Although Trantec produce auger-screws for use across industries such as food, pharmaceutical, chemical, none woven and plastics, our enhanced manufacturing techniques can be adapted to produce auger-screws for almost any application.

Recently, we were faced with the challenge of producing a custom-made auger-screw for one of our clients. Bearing Mart, based in Manchester came to us with a requirement for a replacement auger-screw, as their existing auger-screw was no longer suitable. Their original auger-screw had been produced using more traditional fabrication methods of manufacture however, this method can sometimes be time consuming and costly, resulting in a product that may require regular replacement.

Often, replacement parts have to come from the original equipment manufacturer (OEM), who charges a premium for such a bespoke component. Trantec have invested in state-of-the-art Computer Aided Design (CAD) and Computer Aided Manufacturing (CAM) as our method of production and now offer an auger manufacturing service, specialising in the supply of tailor-made replacement parts for existing auger-screw based machinery.

A sample of the required auger-screw was supplied by Bearing Mart and using our CAD technology, we produced a 3D model of their auger, to the dimensions required. At Trantec, we work closely with our clients, from initial contact, through to delivery and beyond and it is important that our customer is happy with all stages of development prior to production.

Once development was approved, we programmed the 3D model into our CNC machinery, using our latest CAM software.

We manufactured our client's augers from 316 stainless steel bar which was selected due to its excellent machinability and superior strength and we were able to replicate their auger-screw to fractions of a millimetre. Trantec's investment in cutting-edge CNC machinery enables us to reproduce auger-screws that are not only stronger and more robust, but are longer lasting and very cost effective, which cannot be matched using traditional fabrication techniques.

Gareth Harrison at Trantec says, *"Adopting 'aerospace' methods of manufacture produces a superior product. Quality and reproducibility is inherent to our production process. Fractions of a millimetre in accuracy are typical and can be maintained across batches. Trantec's advanced manufacturing techniques save costs and our methods are not labour intensive. Once the design is finalised, production can begin with minimal human intervention. These cost savings are then passed onto our customers, producing a quality product at a sensible price."*

Chris Turner at Bearing Mart said, *"I am extremely impressed with the auger"*.

Augers are widely used in many types of industrial machinery and are often subjected to adverse conditions, which ultimately cause them to need replacing. Often the replacement part has to come from the original equipment manufacturer, who charges a premium for such a bespoke component. Trantec now offer a bespoke auger manufacturing service and specialise in supplying replacement parts for existing auger-screw based machinery such as Bulk Solids Filling or Dosing equipment.

For more information visit us at www.augers-uk.com or call us on +44 (0) 01282 777566, or send an email to sales@trantec.info

