

Clutch Hub Case Study

Problem – A truck manufacturer was having an issue with chips accumulating inside the hub clutch, made from 8620, during the lathe operation. One of the problems was with the time it took the operator to handle the part post process because of the safety situation the sharp chips continued to pose. Also a growing number of parts were needed a post operation to rework the parts because of marring. The manufacturer was currently running 400,000 parts a year and foresaw growth to 1,000,000 parts within the next 3 years creating an issue growing at an exponential rate.

Solution - ParePro was implemented into the process by applying 5 scribe lines on ID of the tube. Due to the location that the scribe lines both teams worked together to find a suitable way to access the ID for treatment while not effecting the current operation. A ParePro size was selected that allowed the client to feed multiple turning centers with processed parts.

Results – ParePro installation resulted in numerous hard and soft benefits:

- **Decreased machining time by 18%**
- **Reduced tool costs by 10%**
- **Significantly reduced the need to clean chips out post operation**
- **Eliminated the need for a secondary rework operation**
- **Allowed the part to be handled quickly and safely by the operator**
- **Allowed the client to produce more parts with the current equipment**
- **Reduced the cost per part**
- **Allowed the customer to more easily meet future demand with confidence and reduced CAPX**
- **One ParePro was able to accommodate multiple machining centers**



Each application has its own set of benefits and we would welcome the opportunity to discuss how ParePro can help improve your turning operation. Give us a call or drop us a note and one of our Solution Engineers will reach out shortly. 734-240-1500 or info@parepro.com