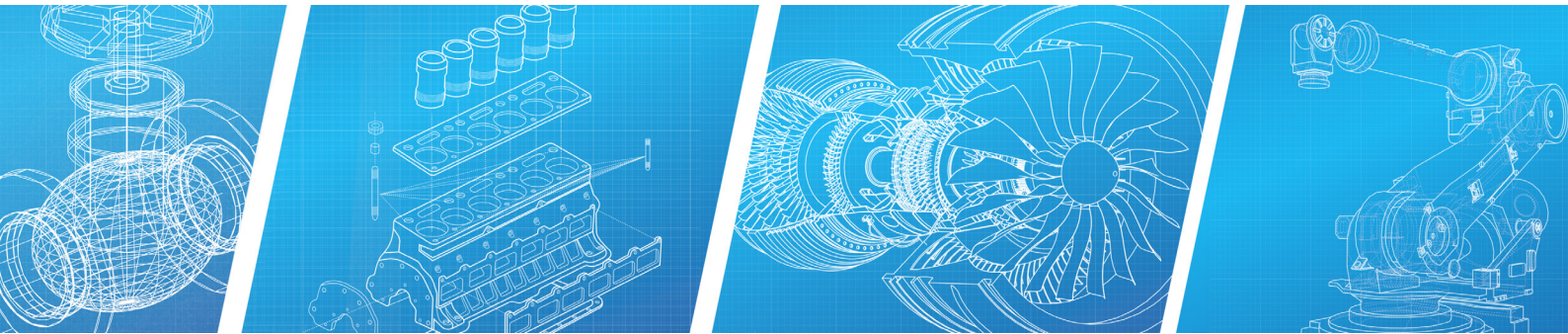


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Bowers Group Case Study Schlote Automotive Parts



BOWERS GROUP



Company Name: Schlote Automotive Parts (Tianjin) Co., Ltd

Location: Tianjin, China

Industry: Automotive

Products Supplied: Baty Venture XT with reprotorubber and Bowers Group Ultima bore gauges

APPLICATION BACKGROUND

The SCHLOTE Automotive Parts (Tianjin) Co., Ltd. is part of the SCHLOTE GROUP, a group of suppliers to the automotive and automotive component industry. As the most recent production site for the group, SCHLOTE Automotive Parts (Tianjin) Co., Ltd. is built inside the Chinese economic metropolis Tianjin, approximately 200km south of Beijing, and is the first SCHLOTE production site outside of Europe.

This modern and innovative building produces automotive transmission components and housings using automated machining lines. Currently employing 80 people, SCHLOTE Automotive Parts (Tianjin) Co., Ltd. Plan to grow its production site to around 280 people thanks to a successful production start-up.

CHALLENGE

SCHLOTE Automotive Parts (Tianjin) Co., Ltd primarily manufactures automotive transmission components and housings using automated machining lines, which assures optimal quality standards with a corresponding process capability for its customers.

After experimenting with a range of measurement equipment in an attempt to accurately measure the critical inside dimensions of 7-house transmission housings, the quality team experienced a series of problems due to the size of the part, and required a better solution.



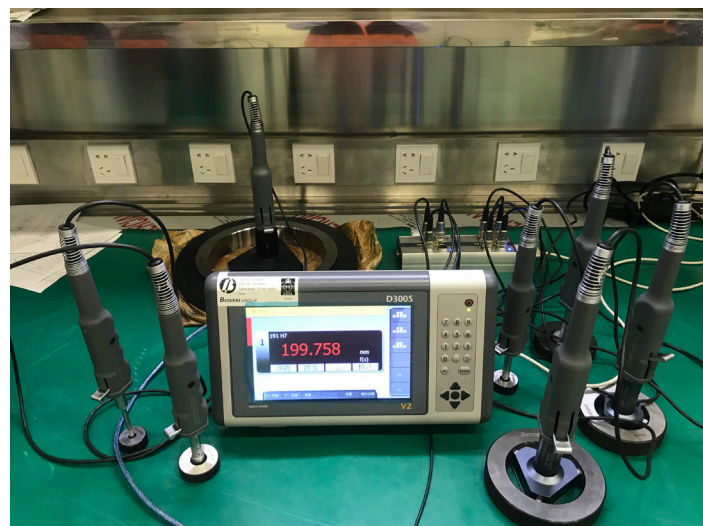
THE SOLUTION

Failure to measure key components accurately and confidently prompted SCHLOTE Automotive Parts to invest in the Baty Venture XT vision system, which can be used for both contact and non-contact measurement, and includes advanced features for scanning and best fitting. It is also perfect for use as a visual inspection aid because it has a powerful zoom lens and good surface illumination.

The Baty Venture allows the business to measure the required features of the transmission housings quickly and accurately. With so many holes and bores inside the housing, there are naturally lots of complicated measurements that need to be taken.

SCHLOTE Automotive Parts also uses reprorubber, metrology grade casting material that allows for exact surface finish replication and excellent optical properties. The reprorubber offers quick casting with zero shrinkage, perfect for complex parts such as transmission housings.

Bowers Shanghai also supplied SCHLOTE Automotive Parts with a set of Bowers Group Ultima bore gauges equipped with 7 measuring heads, offering a measuring solution with a constant measuring force and simple lever operation for easy use and repeatability.



COMMENTS

Mr Xie, Schlote Tianjian Quality Manager said: "We had tried so many different ways to measure critical inside dimensions and failed. The 7-house transmission housing is such a big component and hard to put into the system.

The Baty Venture XT is a pleasant surprise to us; it is very easy to use and there is no need for any complicated programming.

The reprorubber is the perfect solution because it can replicate castings quickly and precisely, and does not stick to the part. It perfectly solves our problem."

