

Precision Tools For Motorsports



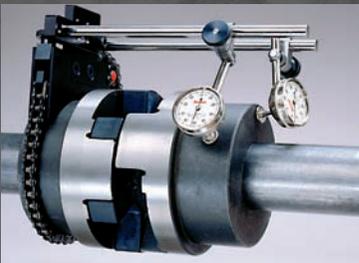
The L.S. Starrett Company is pleased to introduce our extensive line of precision tools and measuring instruments for motorsports. For 130 years Starrett has been synonymous with measurement and precision, the same precision that drives excellence in motorsports and racing vehicle preparation.



Starrett's broad line of precision measuring instruments and shop tools address many applications from measuring machined components, equipment fabrication, chassis set-up, engineering R&D to manufacturing and quality control.



Our optical and multi-sensor metrology systems offer high precision and flexibility for many demanding production, R&D and quality control requirements where accuracy and reliability cannot be compromised.



Need a special gage? Let our Custom Solutions department work with your team to develop the right gage or tool for your application or idea. We have built thousands of custom measuring tools and gages and we can help you achieve your objective.

Please contact us to discuss your application or performance requirements.

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The difference between success and failure in NASCAR racing often comes down to the execution of details. At Joe Gibbs Racing, nothing is left to chance...

One of the many factors that affect performance is the torsional stiffness of the car's chassis. To test chassis stiffness, the car is locked into place and eight indicators are placed at designated positions. A load is then manually placed on the car and measurements are taken from the indicators. This is repeated a total of 12 times with different loads and different chassis configurations, for a total of 96 measurements.

Difficult, Time Consuming & Error Prone

After each setup and load placement, the operator would walk around the car and write down each measurement. Also, the dial indicators would be upside down and, since the car was going up on one side and down on the other, half of the dials would turn in the opposite direction. The process was time consuming and error prone.

For the uncompromising standards of Joe Gibbs Racing, a faster, more accurate process was required. They approached Starrett, a company well known to Joe Gibbs Racing. Give us a call to discuss your application today!

Important Improvements

The Starrett solution replaced the dial indicators with a system of wireless indicators, each with a DataSure End Node, and a DataSure Gateway attached to a PC where the data is recorded.

The new system provided several important improvements. Instead of the operator awkwardly positioning himself to take the reading and then record it, he now simply pushes the send button. With the previous procedure, another step was required to enter measurement data into a spreadsheet. With DataSure, the captured data is entered directly when sent from the End Node.

At Joe Gibbs Racing, DataSure saves labor and time while eliminating data entry error from the process. After full implementation, JGR saved 10 minutes for data retrieval and 20 minutes for post processing – a full half hour for each test sequence.

100% Error Elimination

The most important benefit of DataSure to Joe Gibbs Racing is that it eliminated 100% of the error. In intensely competitive NASCAR, that could be the difference between winning and losing a race.

