



19845 US Highway 76 | Newberry, SC 29108 USA Phone: 803-276-5504 | 800-800-9008 | F: 803-276-8940 | **skp-cs.com** 

## **CONTINUOUS IMPROVEMENT**

The Matrix<sup>™</sup> Insert is an example of Shakespeare continuous improvement. These photos are of Shakespeare crossarms and poles that have been installed in excess of 20 years. The new Matrix<sup>™</sup> design adds an extra level of structural integrity to an existing proven product.





TEST RESULTS				
SHAKESPEARE S-SERIES CROSSARM	Torque Maximum (ft./lbs.)	Torque Initial Sound (ft./lbs.)	J-Type Pin Cantilever Load (lbs.)	COMMENTS
WITH INSERT	130	120	1080	No damage or deformation in the pin or torque test
W/O INSERT	25	20	700	Some surface deformation in pin and torque test

## ADDITIONAL COMMENTS

- As a comparison, a standard vehicle torque recommendation for wheel lug nut is 80-120 ft. lbs..
- The Shakespeare crossarms with Matrix™ inserts performed much better with the standard hardware that is supplied with crossarm pins and did not require the addition of oversize washers.



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