



A New Kind Of Custom Fit

- Allows a single saddle to custom fit all your horses, safely and dependably
- The only adjustable gullet system that locks
- Perfect those that ride several horses or have growing and changing horses
- Adjusts from narrow to extra-wide and any width in between—millimeter by millimeter.
- Backed by a 10-year guarantee
- Adjustments are made quickly and easily in three steps
- Adjustable to the exact width you need—not only full tree sizes.
- Tools and T9 lubricant are included with every system
- US & Foreign Patents Pending
- Instructional DVD included with every saddle
- Available in multiple models

GenTec System Testing



October 18, 2010

Strength and Durability Evaluation of Intec's GenTec Saddletree

Report #: R2010-074

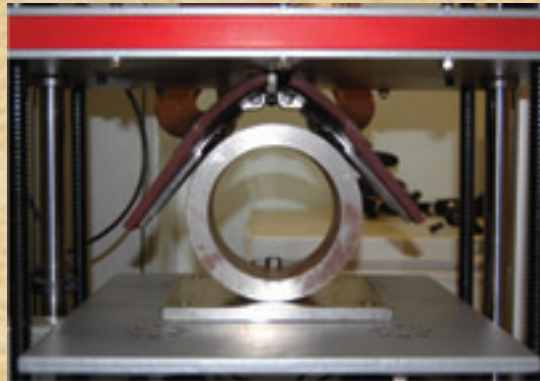
Work Conducted for: Intec Corporation

Work Conducted by: Tim Bayne, Biokinetics and Associates Ltd.

Objective: Intec Corporation manufactures an adjustable saddletree (actual product tested was the GenTec Adjustable Tree) and Biokinetics was contracted to subject the saddletree to a controlled spreading force to evaluate the durability and strength of the adjustable mechanism.

Test Method: An electro-mechanical press with two horizontal platens was used to apply a controlled load to the saddletree. The saddletree's full range of motion was recorded to be 104° fully open and 66° , fully closed. The middle point was calculated to be 85° ; this is the saddletree angle that was used for testing.

The saddletree was supported on the underside with a steel cylinder having an outside diameter of 160 mm (6.29 inch) and a length of 90 mm (3.54 inch) and was loaded on the top by the moving horizontal platen, a picture of this setup is seen below.



The saddletree was placed axially along the cylinder such that it was fully supported by the cylinder. The electro-mechanical press was programmed to load the saddletree at a loading rate of 1 mm/minute (.0394 inch/minute) to a maximum load of 7500 N (1686 lbf). The test sample was to be loaded to failure or until maximum load was attained.

Results: The saddletree was tested to the full load of 7500 N (1686 lbf) and appeared to have not suffered any permanent deformation. The adjustable mechanism continued to function as it did before the test was conducted. A deflection of 5.5 mm (0.217 inch) was recorded when the peak load was achieved.

A force vs. displacement graph is shown below for the tested saddletree.

