

SPERRY RAIL SERVICE

A Rockwood Company



X-FIRE[®]

A New Angle In RSU Technology

What is X-Fire®?



X-Fire® is a new product from Sperry.

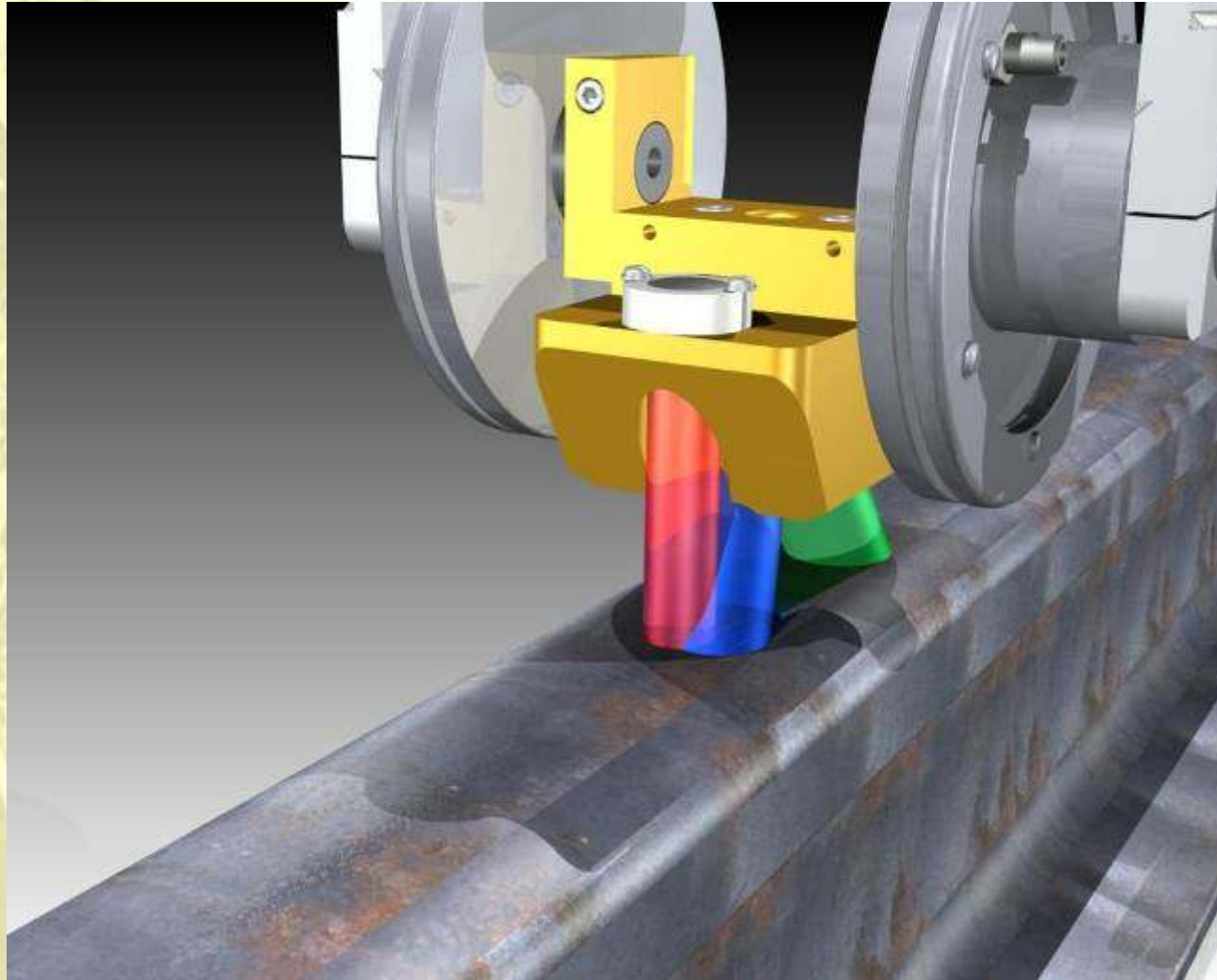
New RSU design

Tests Gauge Side of Rail Head

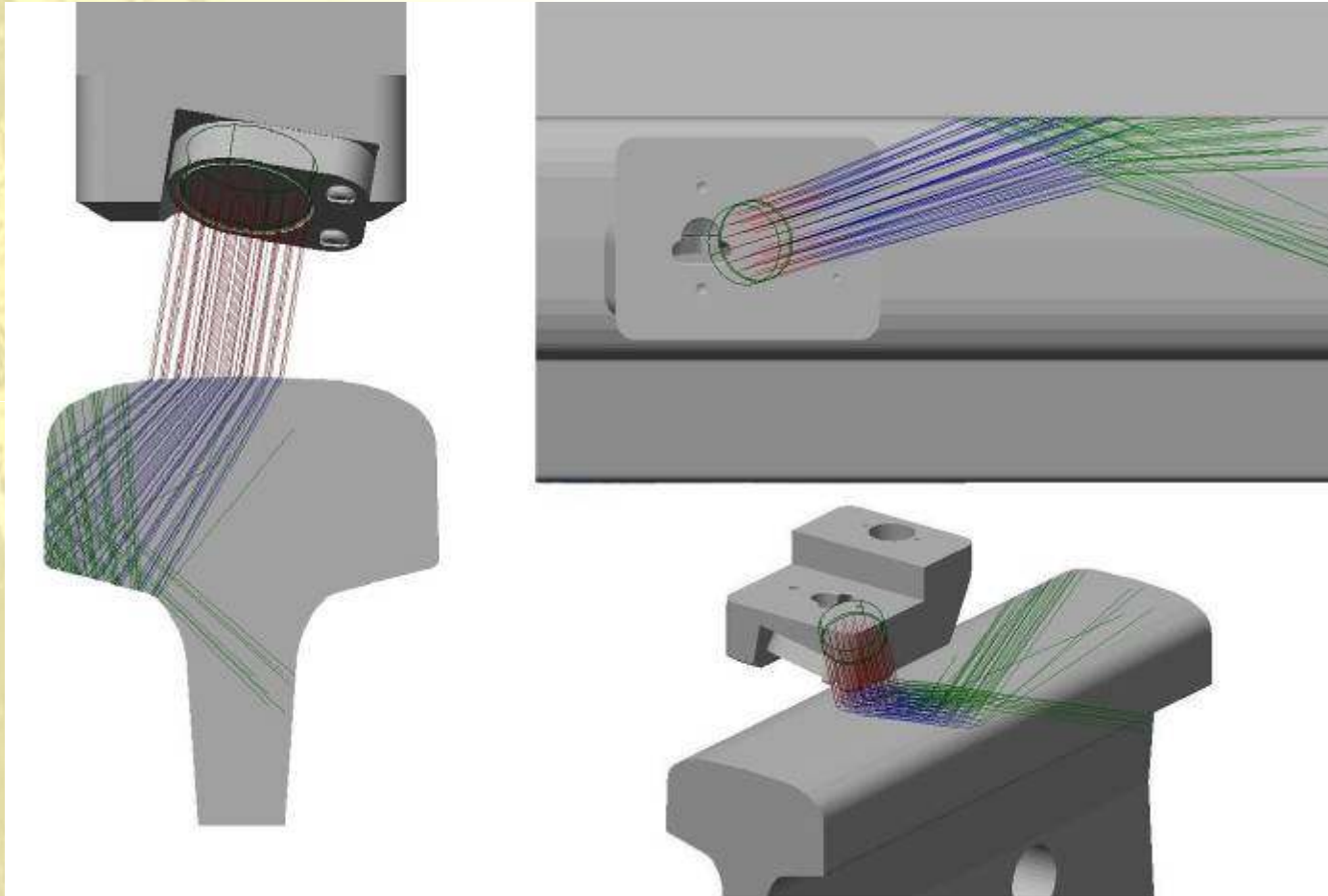
Tests for Transverse Defects under GCC

Complements conventional ultrasonics
and eddy current inspection

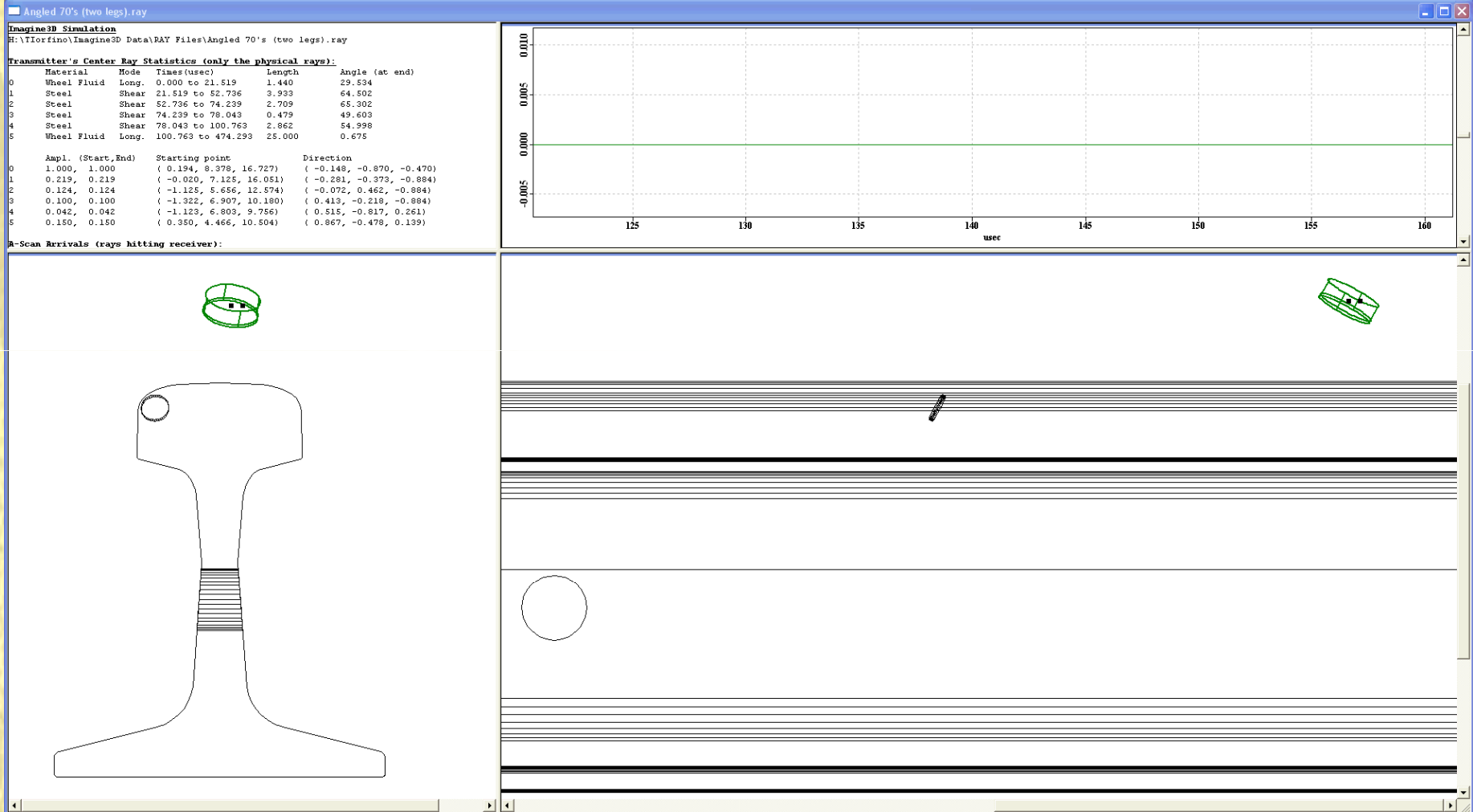
X-Fire – Schematic of Structure



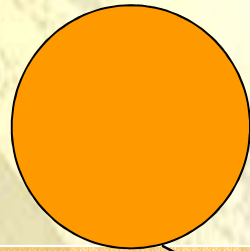
X-Fire – Schematic of Beam Paths



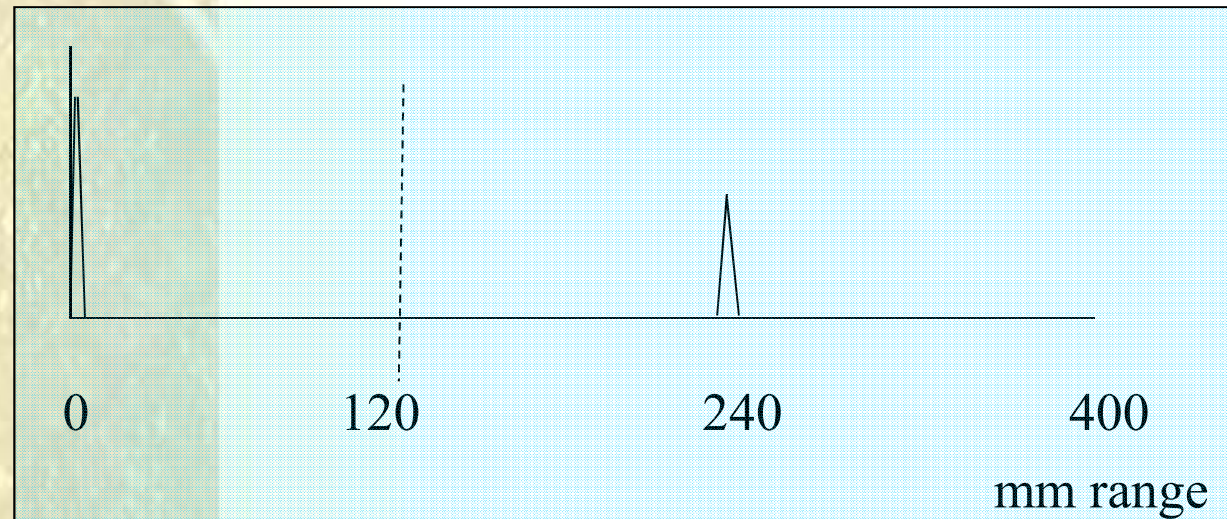
X-Fire



What Does an A-scan look like?



Rail head



What Does X-Fire[®] Do?



The angle and skew of the X-Fire[®] transducers have been optimized to find Transverse Defects under shells and head checking.

The following pictures illustrate some of the defects found by X-Fire

X-Fire[®] Application



X-Fire[®] Application



X-Fire[®] Application



X-Fire[®] Application



X-Fire[©] Application



Sperry X-Fire[©] technology is already being used in actual testing.

Currently available in a Walking Stick

Soon to be available on Sperry vehicles