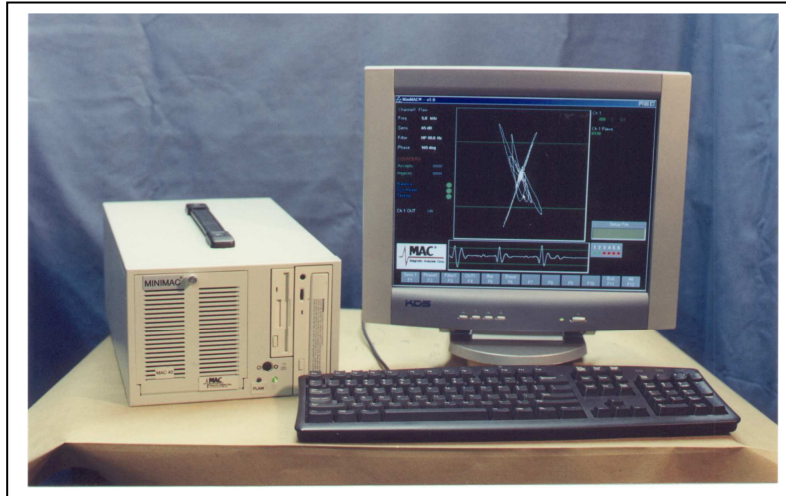


## Detecting Welds in Wire at High Speeds



*Minimac MAC 40 with optional monitor*

Recently, more than 40 Minimac® MAC 40 units have been sold for the detection of welds in copper wire for automotive use. In this application, the automotive companies do not allow any welds to be present in the final product. Therefore, these welds must be reliably detected and removed.

One large customer has chosen the Minimac® for this purpose. The wire sizes being tested range from 12 to 22 gauge. MAC XMH coils are being used with an 025 coil size for 18 to 22 gauge and 044 for 12 to 16 gauge. Because the line speeds are approximately equal to 100 times the gauge size (i.e. 1600 ft/min. for 16 gauge), the high speed coils are used. Very high-speed coils were also tested but no real improvement in the test was identified.

One unique aspect of this sale was the incorporation of a second output (TTL) which was used as a “system ready” indicator so that the machines could be monitored remotely. This output is available as an option upon request for the Minimac®.