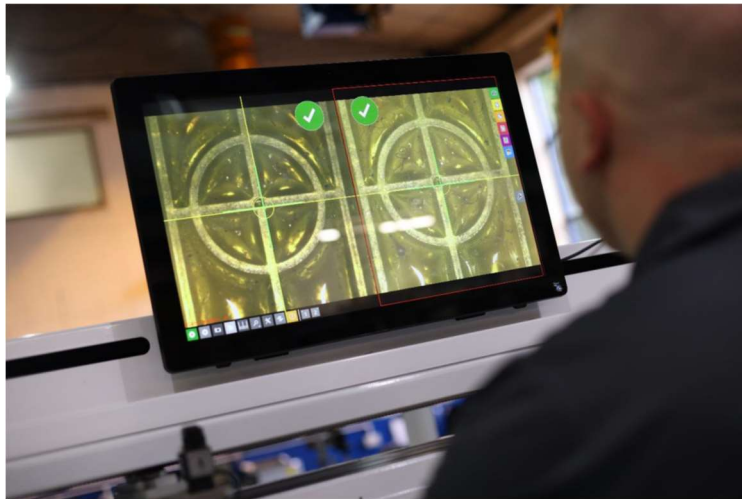




Digital cameras and vision system



As analogue cameras and monitors have become obsolete and no longer manufactured, we have developed a new digital vision system. HD digital colour cameras display the images on a HD flat screen monitor. The system uses bespoke software running on a fan-less industrial computer with an operating temperature between -20C to +70C at 100% CPU. Benefits include:

- Productivity increases, LED register mark illuminators and clearer HD colour images make mounting faster, easier & more accurate
- Operating life of the mounter is extended further
- Applies across the full range of Heaford machines giving a common platform for operator familiarity
- Digital camera technology, high magnification, in colour and HD
- Standard Vision System (narrow web) features include brightness and contrast control, x2 digital zoom and varying sizes, colours and combinations of target crosses/circles.
- Enhanced Vision System (mid and wide web) includes all the features on the Standard Vision System described above along with: a measuring tool for deviation of register marks, screen shots of register marks with job information that can be saved for QC, target (crosses/circles) offset facility, interface to motor controls for moving cameras if installed, remote support software and multi-language interface

A complete system, fully assembled and tested in our factory prior to shipment, is supplied for self-installation (installation by Heaford engineer is available on request) with a detailed instruction manual and includes:

- Industrial fan-less computer with Standard or Enhanced vision system software
- Colour HD digital cameras with new high power LED illuminators
- Flat 21.5" (Standard) or 27" touch screen (Enhanced) HD colour monitor
- All associated cables, power supplies and fittings