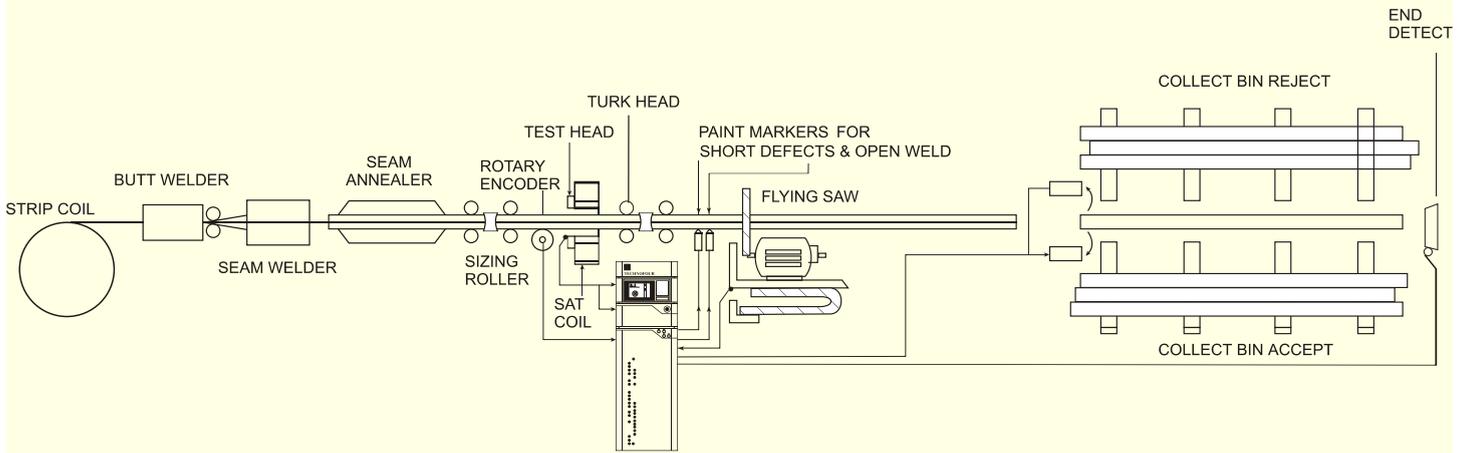


## ONLINE

Applicable Systems: Flawmark range, Paras-EX, Magflux-EX

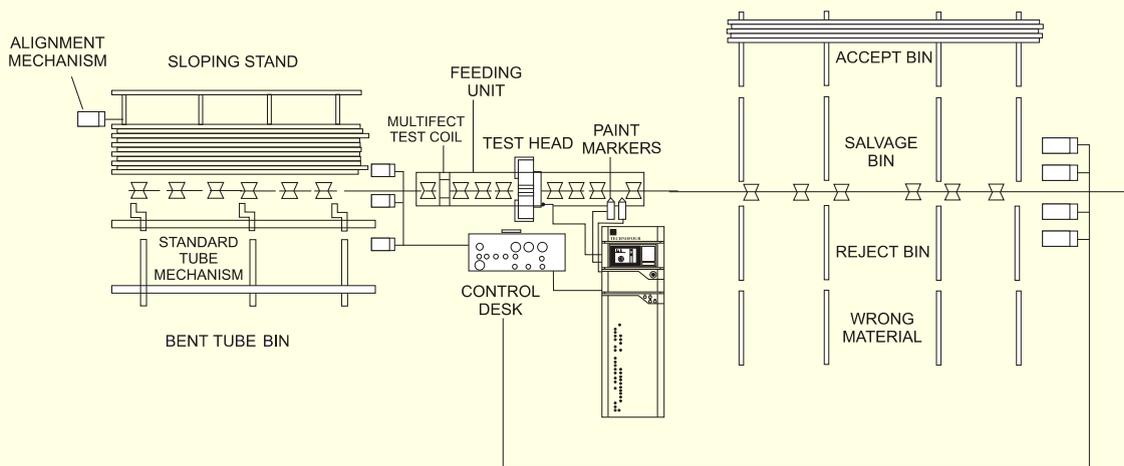


NDT equipment can be installed in a seam-welding mill typically between sizing rollers and the Turk's head. The test head can be either encircling for full body inspection or a segment test head for weld zone inspection. A rotary encoder keeps track of tube movement and synchronizes paint markers.

A clamping signal from the flying saw is used to associate the tested sections with the physically cut tube. Simple automation for sorting tubes immediately after the cut is usually included in the NDT equipment, but for more complex needs an external PLC is used.

## OFFLINE

Applicable Systems: Flawmark range, Rotoprobe-EX, Paras-EX, Magflux-EX

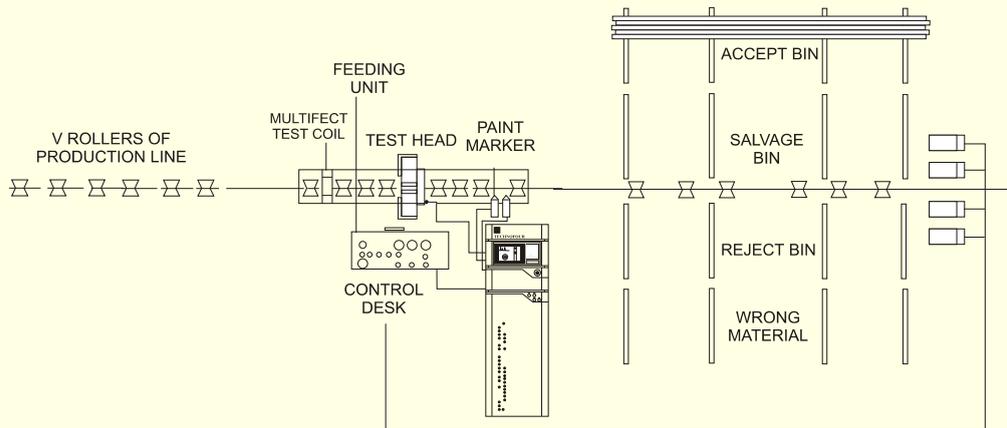


Offline configurations involve a feeding unit to transport test material - usually 6 or 12 meter lengths - through a test head at constant speed. The material is stacked on the sloping stand and singled out on to the entry side roller bed. The tube or bar then passes through the test head.

The tested tube or bar is driven out to the exit side roller bed where it is sorted into four different bins. The feeding unit also houses a grade sorter coil and paint markers. The system can optionally have standard tube or bent bar mechanisms. A PLC handles system automation.

## INLINE

Applicable Systems: Flawmark range, Rotoprobe-EX, Paras-EX, Magflux-EX

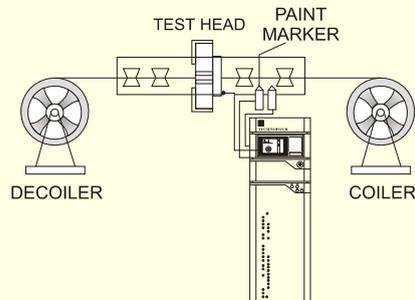


An inline configuration is a variation of the Offline version. It is installed at any convenient location in the material flow, often at the very end, just before packing. It does not involve a sloping stand or a standard tube mechanism.

Just like the offline scheme, the tube or bar passes through a test head mounted on a coil platform on the feeding unit. It is paint marked if defective and driven out to the exit side bed where it is sorted into the appropriate bin.

## SPOOL-TO-SPOOL

Applicable Systems: Flawmark range, Rotoprobe-EX



Spool-to-spool configurations place the test head in between a coiler and a decoiler. Guide rollers keep the portion of the wire straight as it passes through the test head.

System software keeps track of defects in a spool and can work out lengths of acceptable quality wire from a given minimum length value.



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For offline, inline and spool-to-spool configurations, two test heads can be used in tandem for rotating probe and encircling coil inspections. A cost-effective system can be implemented using Rotoprobe-EX with an additional encircling channel.