

Krautkramer Testing Machines

Strip Testing

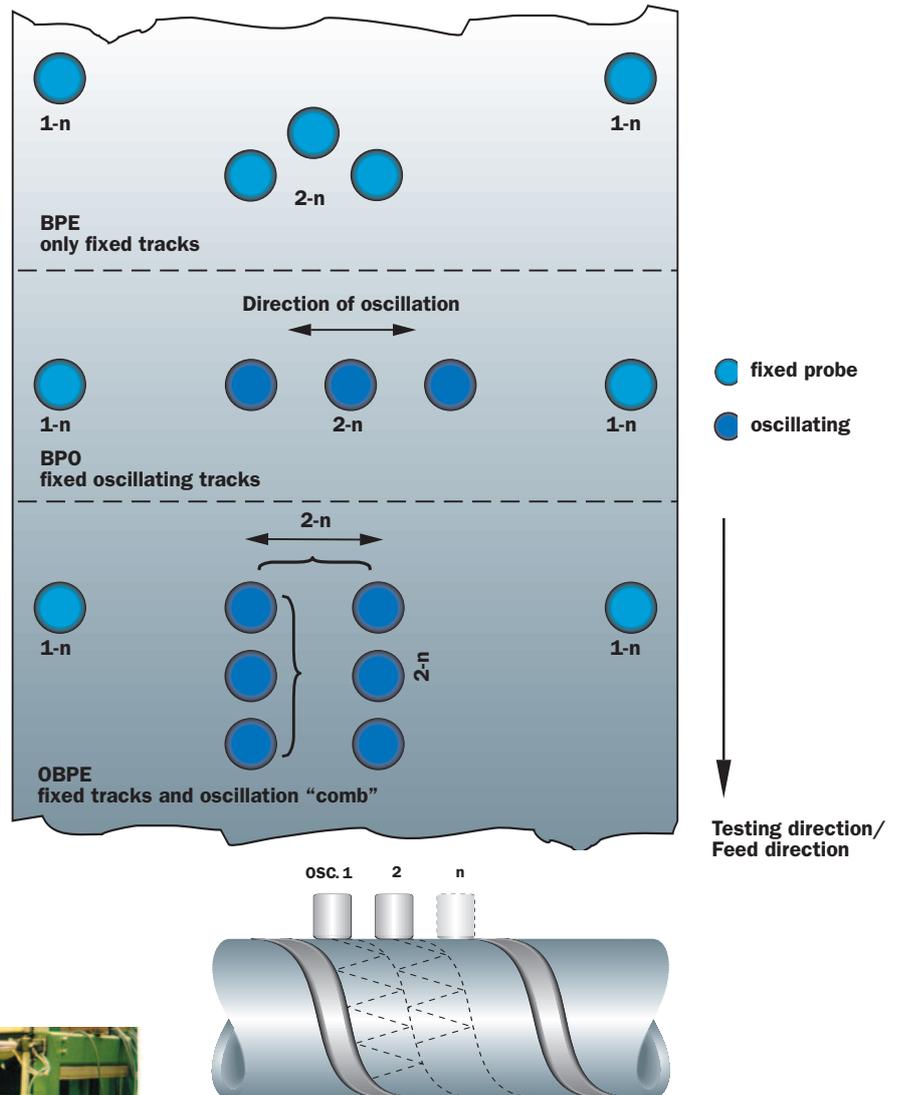
Testing parent material of welded pipes

We supply the machine for testing to specifications. Parent material testing is divided into center zone and strip edge. The strip can be tested either before or after forming.

Our machines either make fixed track testing of the strip width or strip edges and the remaining strip in oscillating tracks (min. 1 probe monitors the edge and the others the center zone). Probe type and numbers, working with water gap or water delay, are made to meet specifications and sizes. A pulse reflection mode is used. Track width is probe dependent. The backwall echo monitors function and coupling.

Many factors govern the number of probes:

- Test track width (especially important for the strip edge)
- Test specifications (e.g. flaw size to be detected)



Oscillating strip testing (OPR)

Only fixed test tracks - BPE

The test mechanism with fixed tracks is mounted on a portal or column supports. Probe holders are gimble mounted on a guide lifted and lowered by a pneumatic unit. The guidance at the strip edge probes will be done by edge guiding rolls.

Fixed and oscillating test tracks - BPO/OPR

The BPO tests strip with fixed tracks for the strip edge and oscillating tracks for the center (OPR only has oscillating tracks for the center). This machine has regulators for probe guiding.

Rollers keep the probes at a constant distance from the edge.

The other probes freely oscillate on the surface.

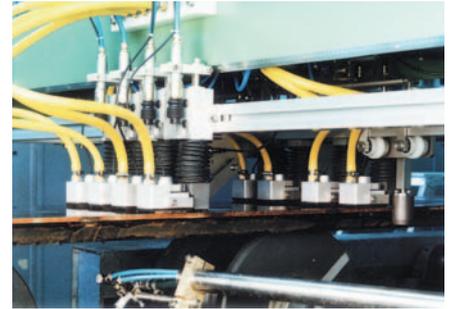
Fixed test tracks and oscillating "test combs": OBPE

The versatile OBPE has fixed tracks for edge testing and "test combs" for center testing. The number of probes can vary for edge testing as well as the number of "test combs" in the transverse direction plus the probes per comb in the longitudinal direction.

Individual parameters are decisive for tailoring this testing machine:

- the flaw size to be detected
- minimum strip width
- maximum test speed

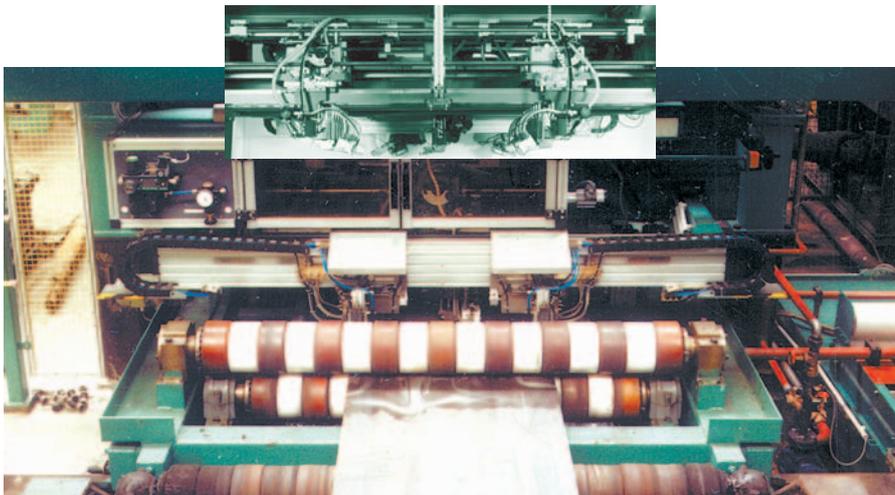
The system is portal mounted. Edge tracking is made by rollers.



Testing with fixed probes



Testing with oscillating probes



Testing with fixed and oscillating probes