

The Ultimate Cladding Line

Smart A.S. Wire is BWE's state-of-the-art cladding system first introduced in 2000 and now a well-established method for producing Aluminium Clad Steel Wire with improved efficiency and reduced waste.

'**Volumetric Control**' has been used for many years to regulate the ratio of aluminium to steel wire.

Smart A.S. Wire introduced a new mode of operation called '**Load Sensing**' which supervises and continuously adjusts the volumetric ratio so that perfect cladding conditions are maintained while flash (aluminium leakage) is minimised.

To avoid the need for the operator to enter complex set-up information, the system is self-learning. For the first drum of a production run, the operator starts up in the normal way. After reaching thermal equilibrium at full running speed, the Smart Software indicates that it is ready to take over. The operator can now engage Load Sensing Mode to complete the run.

At the end of the run, the operator shuts down using the **Auto Stop** function. This allows cladding to continue much closer to the end of a drum of steel wire than previously possible and makes start up on the next drum easier because the shutdown is always 'clean'.

Now that the first drum of wire has been completed and the Smart Software has 'learnt' the optimum process conditions, the operator can run off subsequent drums with the **Auto Start** function. The Auto Start function does not just follow the operator's actions on the learning run but it optimises them to bring the line up to speed in the shortest possible time so that waste is minimised.



Perfect Concentricity



ASTM Torsion Test
Confirms Excellent Bonding

Features

- Automatic regulation of cladding conditions.
- Self-learning – no complex set-up procedures.
- Auto Stop ensures "clean" shutdown.
- Auto Start minimises waste on start-up.
- Auto Stop eliminates waste on shutdown.
- Reduces flash.
- Improves overall efficiency.
- Exceeds the requirements of ASTM Standards.

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Cold Welding · Continuous Extrusion · Continuous Cladding · Continuous Sheathing



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