

CONFORM™

Continuous Extrusion Machine

Conform S315(i)



The new 'S' range of Conform machines is manufactured and assembled in China by **BWE Shanghai Ltd** under the supervision of BWE's UK specialists. To maintain high performance standards, some equipment such as **heat exchangers and hydraulic pumps will be of European origin**. All machines will be subject to final inspection and **CE certification at BWE's UK premises**.

The scope of supply for each line is very flexible. The end user can select the Conform Basic Package or a complete line by selecting from an options menu. Alternatively, the end user can supply some or all of the ancillary equipment.

The Conform S315(i) is the ideal machine for small copper and aluminium solid sections and small aluminium tubes. Typical applications are: **Copper or Aluminium Rectangular Wire (Flat or Round Magnet Wire); Solid Aluminium Conductors (SAC); Round Refrigeration Tube, Heat Exchanger / Air Conditioner (Multi-void or Multi-port) Tubes**. Other applications in different alloys are possible - please contact BWE for further information.

The basic machine construction is based on the proven BWE design, which has an excellent record of reliable operation over many years of service. Extreme rigidity, BWE's pivoting shoe arrangement with its designed-in self closing mechanism and separate controls for the wheel and die temperature all ensure that tooling clearances remain optimal throughout long periods of continuous operation. **Automatic Wheel Cooling** maintains optimum extrusion conditions during production without operator intervention. **Feedstock Powered Infeed Rolls** automate the feeding of the rod into the machine at start up and a hydraulic **Feedstock Guillotine** shears the rod when the machine is stopped.

BWE's patented **Induction Heated Tooling System** is optional and can provide very rapid pre-heat to the high start temperatures required for demanding products and reliable start-up without risk to delicate tooling. Larger product sizes are possible with this option (see specification below). The 'i' in the model number denotes Induction Heating included.

The **130kw Drive System** is a D.C. drive system built to BWE designs and incorporates SSD drives. A **Machine Control System** provides all the controls necessary for machine operation.

The **Siemens S7-200 PLC System** is built into the D.C. Drive System. The Operator's Control Station is located on a 'swinging pendant' for local operation and features a **Siemens 8" colour Touch Screen**, which is used to display the process measurements and enter the operator's settings and display trends. Controls for a speed-follower Take-Up are included, enabling the customer to provide their own type of Take-Up suitable for their specific requirements.

Specification

Model:	S315i	S315
Wheel Diameter (mm):	315	315
Rated Power (kW)	130	130
Min. Aluminium Feedstock (mm):	9.5	9.5
Max. Aluminium Feedstock (mm):	15.0	15.0
Min. Copper Feedstock (mm):	8.0	8.0
Max. Copper Feedstock (mm):	13.0	13.0
Aluminium Products:		
Aluminium Hollow Profiles -		
Maximum Die Circle (mm):	30	30
Aluminium Solid Profiles -		
Maximum Product Width (mm):	50	30
Maximum Product Area (mm²):	2,000	300
Copper Products:		
Maximum Extrusion Width (mm):	55	30
Maximum Product Area (mm²):	400	250

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Cold Welding · Continuous Extrusion · Continuous Cladding · Continuous Sheathing

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