



## Meltech and Confex Line Up

### Continuous Rotary Extrusion Line range

Meltech Engineering Ltd is now offering complete Continuous Rotary Extrusion lines for wire and tube production. The Confex rotary extruder, in conjunction with Meltech pre and post processing ancillary equipment, enables the production of high quality copper, aluminium and alloy solid and hollow section for a wide range of applications.

Continuous Rotary Extrusion is ideal for the continuous extrusion of wire, magnet wire and strip for transformers, busbar and lightning conductors. Meltech is providing manufacturers with a one-stop shop for the design and implementation of highly efficient production lines ensuring cleaning, feeding, cooling, take up and coiling operations are fully optimised.

Meltech has an exclusive marketing and manufacturing agreement with Confex Technology Ltd for the supply of the rotary extruder. In addition it is offering an integrated package of customer care and training programmes, including spares and servicing

for the Confex rotary extruder and ancillary equipment.

*"In comparison to conventional non ferrous extrusion processes, Confex rotary extrusion lines are much more flexible, compact and efficient", said Peter Drever, sales director, Meltech Engineering Ltd. "We have worked closely with Confex Technology on supplying ancillary equipment for a number of successful rotary extrusion lines."*

David Godwin, managing director, Confex Technology Ltd commented, *"The Confex rotary extruder is designed such that it can be readily customised to meet customer's requirements. Working with Meltech takes this a stage further by offering manufacturers with complete and customised production lines that will create more opportunities for rotary extrusion in wire and tube industries."*

Confex rotary extruders are available with extrusion wheel diameters from less than 300 mm to more than 500 mm with fitted power from 75 kW to 575 kW. A typical extruder for

solid aluminium conductor would have an extrusion wheel diameter of 310 mm, fitted power of 150 kW and a maximum wheel speed of 40 rpm.



### Meet the Meltech Engineering team

Following a management buy-out from Pentre Group, Meltech Engineering is forging ahead with an exciting programme of new product developments to its in-line furnace, winding equipment and wire and cable production lines.

Sales Director, Peter Drever and Engineering Director Frank Strong are joined by Nick Hall, Finance Director and Chairman Marcus Moir.

*"Meltech is a solid engineering company with an enviable track record as both an innovator and deliverer of high quality equipment.*

*As an independent company we are committed to investing in the machinery and engineering skills needed to ensure we continue to enhance our customers' businesses," said Marcus Moir.*



From left to right: Peter Drever Sales and Marketing Director, Nick Hall Financial Director, Frank Strong Technical Director, Financier & Chairman Marcus Moir

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# Coating and Jacketing

## Fast, efficient, entry-level manufacturing system

Looking for a cost-effective route into manufacture of coated and jacketed fire retardant and specialist cables? Meltech has developed a new approach to manufacturing silicone rubber coated, single and multi-core wires, and low-halogen jacketed cables.

The Meltech lines require less space yet achieving higher production speeds than existing manufacturing techniques.

Gone is the 100 metre salt bath or steam to provide the heat needed to cure the silicone rubber coating, and in its place is an infra-red oven to heat and cure the silicone rubber in a fraction of the time. And at 12 metres, the oven is also significantly shorter, reducing the space needed for coating operations. In combination with Meltech's

automated pay-off and coiling machines, manufacturers can expect to achieve production speeds of up to 140 metres per minute.

### Fire Retardant Jacketing Line

The Meltech fire retardant jacketing line uses Meltech's proprietary SZ strander technology. This is designed to simplify the manufacturing process by using the strander in line with the jacketing process, thereby reducing two processes to one.

"We've drawn on our knowledge of sophisticated heating control and automated coiling experience to develop a production line specifically for companies wishing to enter the fire retardant cable market.



"The jacketing and coating lines are compact and competitively priced at around €400,000 each to give companies the opportunity to enter this growing market with a highly efficient manufacturing operation," said Peter Drever, sales director, Meltech Engineering Ltd.

# Turning up the heat...

## Meltech MT1300

Meltech has enhanced its range of strand annealing furnaces with the new MT1300 high temperature furnace for stainless steel and complex alloys.

The electrically heated furnace uses an advanced control technique to achieve accurate temperature zoning up to 1,300°C yet offers reduced running costs.

Meltech wire annealing furnaces are based on the 'low thermal mass' principle and feature multi-zone temperature control.

The furnace is available in a range of sizes with a choice of heating element materials such as Kanthal APM, for processing wires typically 0.5mm - 6mm diameter. Customisation of element design allows optimisation of the MT1300's performance to fine tune temperature zoning and increased element operational life.

The MT1300 uses advanced ceramic and insulation materials to give 90% thermal efficiency, leading to more consistent and



manageable heating across the length of the furnace and reduced furnace heating running cost. The Meltech 1300 is available as a standalone furnace or as part of a self contained Meltech annealing line with integral spooling through to large scale process annealing lines with capacities in excess of one tonne per hour.

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