**MICROWAVE**

**CONTINUOUS TUNNEL SYSTEM**

**INDUSTRIAL MICROWAVE TECHNOLOGY**

**POLARISED FEEDS**

Thermo Wave Technology have enhanced the Polarized Feed concept to develop the "Circular Polarized Synthesizer Feeds".

TWT’s “Synthesized Polar Feed System” (SPS) provides a very uniform circular Microwave output, for improved uniformity.

Polarized Feeds have no moving parts, providing the user with little to no maintenance.

TWT has developed two options to allow maximum flexibility in applying this technology to our customers’ current or future requirements.

**TERMS & CONDITIONS OF SALE**

Products are supplied subject to DanTech Terms & Conditions of Sale.

These are available on request or may be viewed and downloaded from our website: www.dantechuk.com
DanTech has designed, supplied and installed many microwave systems in the UK, Ireland, Europe and the Middle East. With more than 30 years expertise in microwave technology, DanTech has the skill to design, develop, deliver and support solutions that maximise productivity.

OEM
As an OEM we are able to custom design and build oven applicators to suit a client’s needs whilst complying with the latest CENELEC and IEC legislation on industrial microwave installations.

Safety
DanTech was the first to introduce on all systems, automatic CO2 fire suppression systems to protect operators and buildings in case of fire caused by overheating. All systems delivered by Dantech meet the IEC 60519-6, EN & BS safety standards.

DanTech industrial microwave systems can efficiently heat and temper many different products in a matter of minutes.

Typical uses include:
- Tempering frozen meat, fish, fruit blocks and vegetables from -20°C to -3°C.
- Pre-heating liquids.
- Heating butter, caramel and other ingredients.
- Tempering, rubber, plastics, composites wood for further processing.

Advantages:
- Meat, fish, fruit, vegetables: no drip loss
- Liquids can be rapidly heated for pasteurisation
- Confectionery, ready for pumping, blending etc.
- Rubber, plastics, composites perfect temperatures for moulding.

Benefits of microwave technology:
- Precise temperature control from simple operator controlled interface.
- Production scheduling can be elevated to “Just in Time”.
- No change to organoleptic properties of food products
- Reduces the risk of bacteria growth.
- Small footprint, frees up space for production.
- Improves production flow.

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Control:
The Allen-Bradley control panel, PLC and HMI controls are housed within an IP 66 (NEMA 4x) enclosure controls the total process, power, dwell and conveyor speed.

Safety:
Operators are protected by the risk of microwave exposure by electro and mechanical interlocks. Compliance with IEC regulation 60519-6 for fire risk within the oven cavity and exit.

Modular:
The tunnel is modular construction and therefore can be extended in 3650 mm sections connected by a septum.

Upgrades:
Additional transmitters can be added to the tunnel up to 300 kW per module in 75 Kw increments.

Technical Specifications:

Tempering Tunnel:
Series: MIT 36
Construction & Design: The MIT 36 tempering tunnel is constructed in stainless steel grade 1.4301/AISI 304. Built to comply with CE, AMI and following the EHEDG (European Hygiene Engineering and Design Group) principles for hygiene and best practice.

The tunnel is made in 3 sections, easy site assembly:
- Overall length = 8830 mm
- Height Overall = 2154 mm

Both attenuation tunnels have jacketed tunnel liners with 3 stainless steel reflection flaps to prevent microwave leakage.

For further protection, the tunnels have calibrated RF leak detection monitoring. Standard opening: W x H = 610 x 250 mm.

Polypropylene modular transport conveyor belt.