

Telsonic's solution for this complex joining and separation task is based upon the ultrasonic Bag Sealing Module – VFFS. This unit incorporates two ultrasonic systems with 165 mm wide sonotrodes which have integrated cooling within the clamping unit plus digital MAG generators, each of which has a maximum output of 2.4 kW at a frequency of 30 kHz. The cutting knife can easily be integrated into the robust and rigid module to ensure a reliable cut. The sealing module which can be integrated into all standard VFFS tubular bag machines, either for new machines or as a retrofit, can be connected to a servomotor with an air-cushioned end position.

The design of Telsonic's Bag Sealing Module – VFFS provides enhanced mechanical stability for extended service life. As a digital platform users benefit from state of the art process control, a wide range of features together with high efficiency and performance levels. Built-in self-check routines and error logs, combined with the availability of fast remote service, ensures that downtime is kept to a minimum. Telsonic engineers and process specialists also work closely with customers from the initial concept stages of a project through component and module specification to installation and commissioning, providing the support needed to ensure a smooth transition to production.

Manufacturers adopting this fast and efficient technology will quickly realise a **wide range of benefits**:

Advantage of ultrasonic technology	Customer benefit
Fast start up	Reduced scrap
Short weld time	Greater throughput
Secure welding – even with product in the seam area	Less scrap and better quality
Minimal heating of sonotrodes	No damage to film or products from thermal effects
Low maintenance system	Much reduced maintenance costs
High energy efficiency	Lower energy consumption and reduced energy costs
Narrow sealing seams	Greater material utilisation and reduced costs