

INCREASE PRODUCTIVITY WITH OUR WAX DELIVERY SYSTEM

SHELL-O-MATIC CAN PROVIDE YOU WITH A WAX DELIVERY SYSTEM COMPOSED OF A WAX MELTER AND A WAX CONDITIONER.

The conditioner works in temperature stages and is engineered to prevent air bubbles in the wax. The wax conditioner receives the wax from the melter at the maximum wax temperature and progressively cools it down to the injection temperature. This progressive cooling is key to avoid wax component separation.



The wax level in the conditioner is monitored to ensure it is always properly filled and ready to feed your wax injector system:

- » Avoid formation of air bubbles in the wax
- » Staged cool down to avoid wax element separation
- » Level sensor to ensure the system is always ready to feed the injector

MELTING

The Melting unit melts flakes, slabs or scrap wax on demand by level control.

The single melter rate is approx. 14kg. (30lbs) per hour at 93°C (200°F)

The dual melter will double this rate. The actual melting rate depends on the wax.

CONDITIONING

Adding the new wax in a very liquid state prevents air entrapment. A full sweep agitator produces a homogeneous wax at the precise temperature, ready for injection.

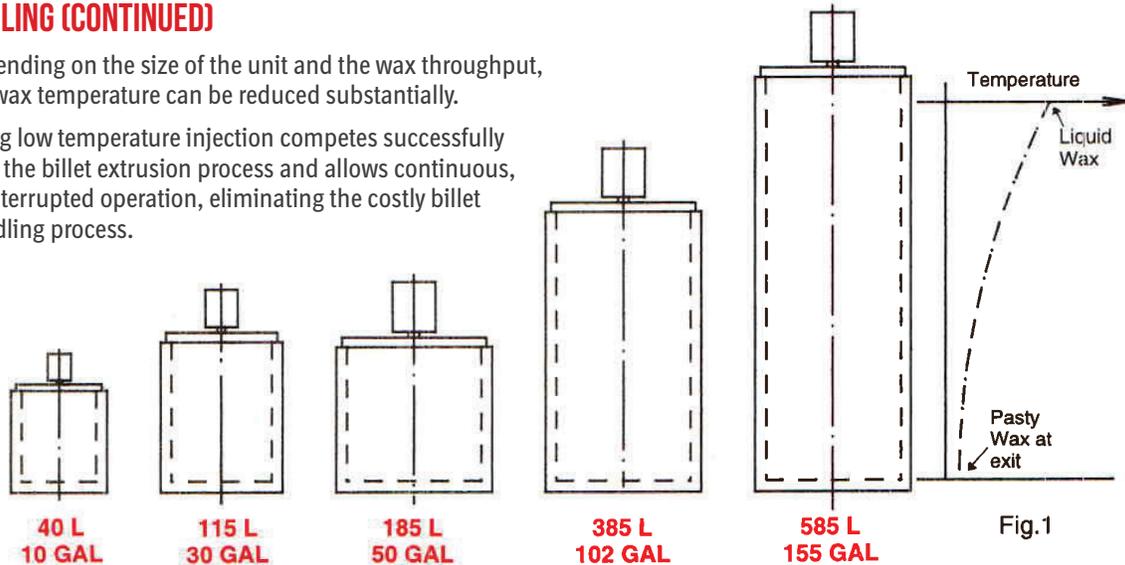
COOLING

In the case of thick wax pattern section it is desirable to inject at a relatively low temperature to eliminate sink and shrinkage problems and to speed up the cycle time.

COOLING (CONTINUED)

Depending on the size of the unit and the wax throughput, the wax temperature can be reduced substantially.

Using low temperature injection competes successfully with the billet extrusion process and allows continuous, uninterrupted operation, eliminating the costly billet handling process.



Some models are specifically designed to produce very pasty wax. As it slowly moves down from the top, the wax passes through multiple heating/cooling zones, thereby gradually reducing its temperature, see temperature curve in Fig. 1

A special agitator, slow speed and high torque, ensures the production of consistent, homogeneous pasty wax.

SHELL-O-MATIC BUILDS A COMPLETE RANGE IN 5 SIZES

The separation of the **MELTING** from the **HOLDING** allows the user to operate consistent optimum conditions.

TRANSFER

To transfer the conditioned wax to one or several injectors, a heated pump plus heated flexible or fixed lines can be used.

