

## THE NEW IUT AUTOMATIC AGEING CONCEPT FOR EXTRUSIONS

The concept is designed to meet the new demands of total flexibility in the ageing process. The concept is fully automated and includes ovens with automatic handling trolley.



### EASY TO INCREASE CAPACITY

The number of chambers is related to the production capacity. The concept is easily extendable to meet production increase. The concept has in its standard design an ageing capacity of 2 - 10 tons/hour.

### INDIVIDUAL AND ACCURATE TEMPERATURE CONTROL

Each chamber is individually temperature controlled and allows special ageing cycles for different alloys in running production. The oven chambers have an extremely efficient air circulation and a precise temperature control. The result is a rapid heat up to a high ageing temperature e.g. 195°C.

### VERTICAL CHAMBER DESIGN

Unlike traditional oven layouts this oven is elevated and loaded from below. The principle offers considerably less floor-space and practically no heat-losses.

In comparison to ordinary floor ovens the electrical power connection is substantially less, owing to the fact that only one batch per hour is in the up-heating sequence.



*Elevated load in a vertical chamber oven*

### FLEXIBLE AND FULLY AUTOMATED

The automatic handling trolley collects the batch from the pick-up station and transfers it on to the oven floor. The floor with the batch elevates up into the oven chamber and the pre-set ageing cycle starts. The trolley can also return empty baskets to the press area.



*Automated trolley in a floor oven design*

The handling trolley is controlled by a PLC-system automatically guiding the trolley to the right oven chamber for loading/unloading.

## The benefits of the IUT concept are the following:

- The modular concept provides a suitable sized plant, which is easy expandable in the future.
- Lower initial investment than traditional systems.
- Individual ageing cycles for different alloys
- Shorter heating cycle – Shorter lead time.
- High energy transfer and precise temperature accuracy.
- Integrated handling equipment in a fully automated system.
- Floor space considerably reduced.
- Less rejects.
- Variable length processed automatically.
- High efficiency reduces labour costs.
- Low maintenance costs.
- Integrated handling equipment.
- Ready to integrate with automatic warehouse / packaging systems.



*Loading of a vertical chamber oven*

*As stated above the new IUT concept offers considerable advantages in productivity and profitability.*