

**Shrinking**      **STCW 60 / STCW 80**  
**Drying**        **DU 60 / DU 80**  
**Transporting**   **CB 60 / CB 80**

Inline Shrink Equipment for  
Large/Industrial Size Operations



Visually appealing and in excellent form





The ideal solution for large packaging operations/long products: Shrink Tunnel STCW, Dryer DU and Conveyor Belt CB.

**Improving product appearance with shrink packaging:**

Packaging your food products in transparent shrink film eliminates wrinkles, resulting in an attractive and eye-catching appearance on the display shelf. Visually appealing and always in excellent form.

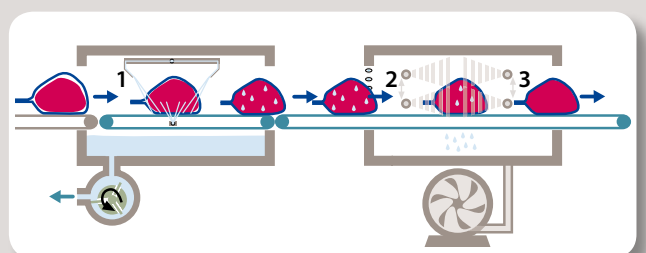
By combining your packaging equipment with automatic Shrink Tunnel STCW, Dryer DU, and variable Conveyor Belts CB, you'll have a modern WEBOMATIC shrink packaging line that runs like clockwork!

Our fully automatic shrink tunnel and the matching dryer have been designed for industrial packaging operations and large or extremely long products: This inline shrinking, drying and transporting system allows for efficient continuous production without interrupting the operating cycle and without cost-intensive downtimes. In addition, the system is centrally controlled by a high-performance Mitsubishi PLC.

Innovative technique and skilful design is apparent in every single detail: Starting with the magnetic coupling system completely free from wear and tear up to the hygienic WEBOMATIC CleanDesign with sloped surfaces for easy cleaning.

**Effective Shrink Packaging:**

Packed in shrinkable material by the packaging machine, the products are continuously transported on the conveyor belt through the shrink tunnel. Here they go through several hot water cascades which shrink the packages evenly from top and bottom. This procedure guarantees effective shrinking and a wrinkle-free appearance around the product using just enough heat to shrink the bag without transferring the heat to your product causing "cooking". After the shrink process the wet packages are conveyed into the drying tunnel. Two blower jets, controlled by photoelectric cells, rise and fall following the contours of the product and to gently blow off the water leaving your product dry and ready for labelling. The result: A perfect shrink-wrapped package.



- (1) Inside the shrink tunnel, hot water gently showers the product package.
- (2) The wet products automatically move into the dryer while passing through photoelectric cells.
- (3) The packages are then dried intensively by high-pressure jets of air.

# Automatic Shrink Tunnel STCW 60 and STCW 80

Distinctly Different – Inside and Out



The WEBOMATIC Shrink Tunnel STCW is designed with clever details which are simply unique, making a positive impression with all along the production line by delivering perfect shrinking results.

The efficient flow of the shrink packages through the hot water cascades inside the STCW provides a constant, equal and wrinkle-free shrinking result. Without interrupting operating cycle breaks the tunnel can easily handle an enormous packaging volume. No problems arise even being fed by several packaging machines. By means of the water temperature regulation the shrinking process is adapted in a flexible way to the individual products and shrink film materials which results in quick product changeovers.

### Clean by Design

WEBOMATIC's hygienic CleanDesign is stunning. The sloped surfaces for direct water runoff, solid and construction of non-corrosive stainless steel materials is just the beginning. The shrink tunnels feature a service-friendly design with quick access to the water tank, conveyor belt, sensors and heating elements – all possible through tiltable front-door hoods.

### Innovative

A unique gear drive rounds out our shrink tunnel STCW and Dryer DU. The conveyor belt is designed with a gear drive that features a magnetic coupling system, which operates completely free from wear and tear! In addition, the wet and dry operating areas of the shrink tunnel are hermetically separated. The important components (e.g. stainless steel water pump and electrical components) are safe from any water.

### Practical handling

Using only one hand, the machine hood can be easily opened thanks to the integrated opening support system – and locks into the final safe and clean position at a comfortable height.

Left: Sloped surfaces promote better water runoff during sanitation.



With minimal effort, operators can access the interior of the tank in just seconds for efficient cleaning.

### Ultra safe and energy efficient

Equipped with two back-up water level detection systems our shrink tunnel STCW is able to secure the necessary water levels, ensuring the highest degree of protection with regard to constant use of the machine's heating elements. When it comes to energy efficiency, our shrink tunnels are designed with double wall insulated housing that contributes to equalized water temperatures, ultimately reducing the amount of energy required to constantly heat the water. The stepwise activation of the heating elements by the "intelligent" PLC guarantees a phenomenally energy-saving system. Using an existing central steam supply system our shrink tunnel equipped with steam heating will be the most economical version: Faster heating and less energy consumption.



The water level detection sensor is one of the two independent back up systems for regulating the tunnel's water level.



# Dryer DU 60 and DU 80

All around powerful drying application





WEBOMATIC CleanDesign also inside: The conveyor belt can be easily removed while the machine hood is latched in its top safe position.



Operating either independently or with our shrink tunnel, our WEBOMATIC Dryer DU is the ideal choice for shrink lines with high production volumes.

#### **Ideal for automated operations**

Just like our shrink tunnel, the dryer operates continuously without interrupting cycle times, delivering the best performance and results you can count on. Perfectly wrapped shrink packages that have been dried with care can move immediately into weighing, labelling and boxing operations without interruption.

#### **Ultimate drying power**

Photoelectric cells positioned at the entrance of the drying tunnel measure the individual product height. By then communicating the data to the machine's PLC control, the two top blower jets move continuously along the product's contoured shape. This ensures ultimate drying from package-to-package (see image on page 3).

#### **Clean in Design**

The Dryer DU is also characterized by its exceptional hygienic WEBOMATIC CleanDesign which automatically prevents the accumulation of water and soil.

The highest standard of sanitation is made possible by the solid and durable and non-corrosive stainless steel materials, as well as easy access to service and clean the machine. The access to the side channel blower and conveyor belt is rather simple due to the front-sided service doors.

#### **Practical handling**

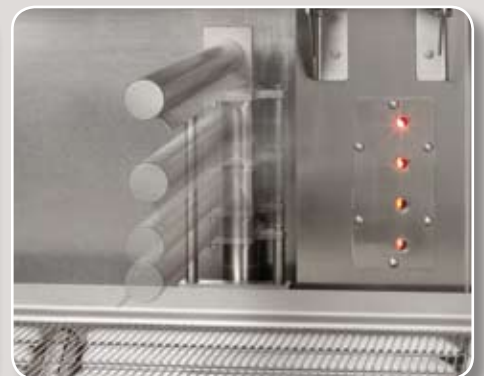
Using only one hand, the machine hood can be easily opened at a comfortable working height thanks to the integrated opening and lock-in-place support system.

#### **Innovative in drive**

A unique gear drive (like that in our shrink tunnel) rounds out our Dryer DU. The conveyor belt is designed with a gear drive that features a magnetic coupling system, which operates completely free from wear and tear! In addition, the wet and dry operating areas of the drying tunnel are hermetically separated. The important components (e.g. side channel blower and electrical components) are safe from any water.



Easily accessible: An additional front-faced service door offers quick access to the side channel blower.



Ideal position: Always in the correct distance due to our unique blower jet regulation system.

# Conveyor Belts CB 60 and CB 80

Always reliable



Our WEBOMATIC Conveyor Belts CB complete any inline packaging operation. Depending on the working width of your inline packaging configuration, we offer conveyor belts in widths of 60 or 80 cm. Various belt lengths (1.5 to 7 m; in 50 cm increments) can also be specified.

#### Clean design for improved sanitation

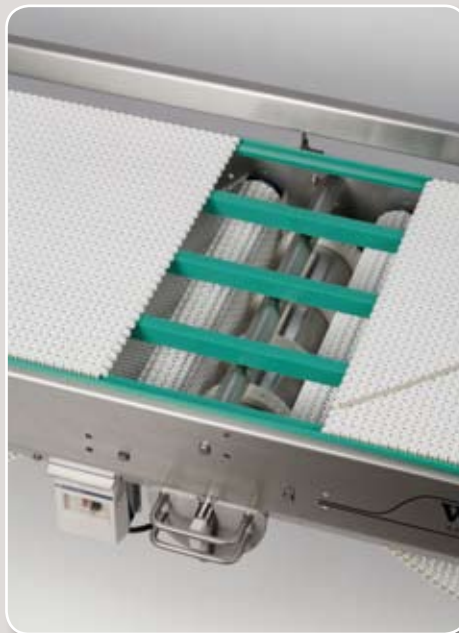
Further added special features of our Conveyor Belts CB are the hygienic and cleaning aspects: Our WEBOMATIC CleanDesign conveyors feature surfaces that are sloped slightly to prevent water accumulation and long-lasting polypropylene (PP) belts for easier cleaning. In addition, each belt is also equipped with a stainless steel drum motor (IP 66) for thorough cleaning.

Other optional features include:

- Reversible transport direction
- Smooth seamless speed variation via a frequency converter
- Index linked belt
- Photoelectric eye for immediate stopping



WEBOMATIC CleanDesign: Sloped surfaces and rounded edges as well as the position of the product guide ensure the best possible hygienic cleaning.

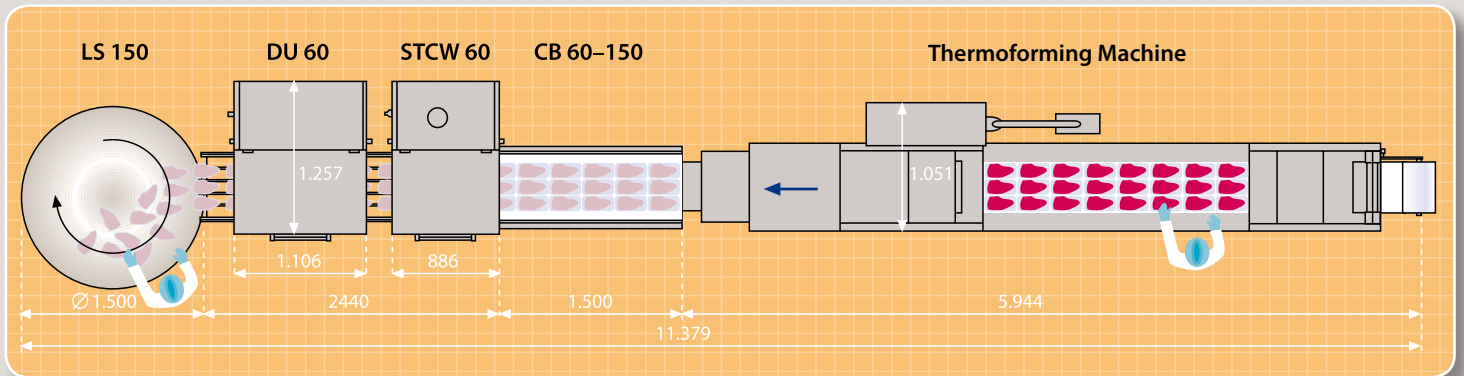


Highest quality standards: Our conveyor belts are constructed of high-quality stainless steel drum motors (IP66).

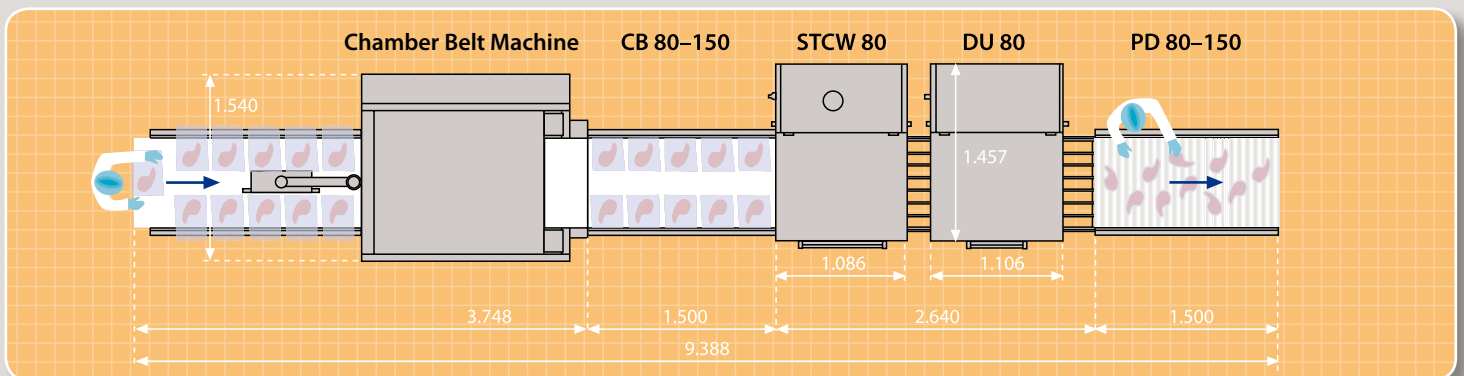


# Various Configurations for Every Need

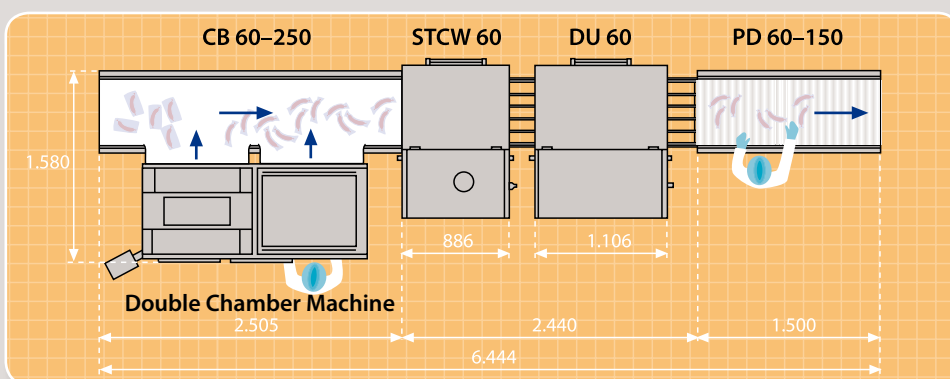
Always flexible



Inline system includes a thermoforming machine, conveyor belt, shrink tunnel, dryer and turntable LS 150 at the exit area.



Inline system includes a chamber belt machine, conveyor belt, shrink tunnel, dryer and product depot.

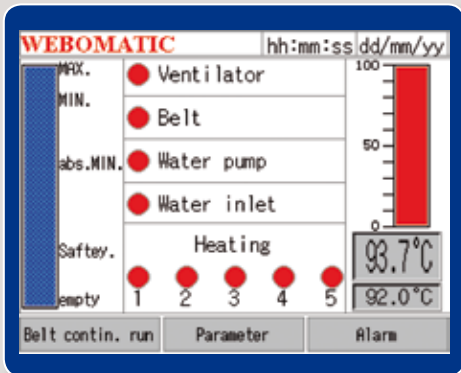


Compact inline system features a double vacuum chamber packaging machine, transfer to the conveyor belt by exit rollers, a shrink tunnel, dryer and product depot.

## Various combinations – rarely a problem

Our new shrink packaging machines are a perfect match for any inline packaging operation and all types of industrial packaging machines. Regardless of whether your plant layout features a thermoforming machine, double chamber vacuum packaging machine or chamber belt machines, we can configure (from concept to reality) our equipment in a variety of formats including different connections, and interfaces. In addition, all important functions within the line can be controlled for a central source

## Clever Automation



Touch screen of Shrink Tunnel STCW



Touch screen of Dryer DU

### More intelligence through a PLC interface.

We draw on the highly intelligent Mitsubishi PLC to control our shrink tunnel and dryer in sequence with the balance of your packaging line. The easy-to-read touch screen and pre-programmed parameters is child's play. Different languages and user-friendly icons and error indicators are also made possible for various language-speaking workforces. The control also features a supervisor setting for top security of your product programs. If that's not enough, we can also provide a stand-alone PLC control which works with other manufacturers' packaging machines.

# Automatic Shrink Tunnel STCW 60 and STCW 80

## Technical Data

model	external dimensions in mm (w x d x h)	max. product height in mm (w x h)	max. product weight	conveyor speed	electr. heating capacity	control unit	electric	options
STCW 60-L	886 x 1.253 x 1.442	550 x 300	70 kg	0,15 m/s	36 kW	Line <sup>1)</sup>	400 V, 3 Ph, N, PE, 50 Hz	+ 9 kW, FU, D, D-WT, E+D
STCW 80-L	1.086 x 1.453 x 1.442	750 x 300	100 kg	0,15 m/s	45 kW	Line <sup>1)</sup>	400 V, 3 Ph, N, PE, 50 Hz	+ 9 kW, FU, D, D-WT, E+D
STCW 60-T	886 x 1.253 x 1.442	550 x 300	70 kg	0,15 m/s	36 kW	Touch <sup>2)</sup>	400 V, 3 Ph, N, PE, 50 Hz	+ 9 kW, FU, D, D-WT, E+D
STCW 80-T	1.086 x 1.453 x 1.442	750 x 300	100 kg	0,15 m/s	45 kW	Touch <sup>2)</sup>	400 V, 3 Ph, N, PE, 50 Hz	+ 9 kW, FU, D, D-WT, E+D

# Dryer DU 60 and DU 80

## Technical Data

model	external dimensions in mm (w x d x h)	max. product height in mm (w x h)	max. product weight	conveyor speed	electr. heating capacity	control unit	side channel blower	electric	options
DU 60-L	1.600 x 1.253 x 1.442	550 x 300	70 kg	0,15 m/s	9,5 kW	Line <sup>1)</sup>	1.100 m <sup>3</sup> /h	400 V, 3 Ph, N, PE, 50 Hz	FU
DU 80-L	1.600 x 1.453 x 1.442	750 x 300	100 kg	0,15 m/s	9,5 kW	Line <sup>1)</sup>	1.100 m <sup>3</sup> /h	400 V, 3 Ph, N, PE, 50 Hz	FU
DU 60-T	1.600 x 1.253 x 1.442	550 x 300	70 kg	0,15 m/s	9,5 kW	Touch <sup>2)</sup>	1.100 m <sup>3</sup> /h	400 V, 3 Ph, N, PE, 50 Hz	FU
DU 80-T	1.600 x 1.453 x 1.442	750 x 300	100 kg	0,15 m/s	9,5 kW	Touch <sup>2)</sup>	1.100 m <sup>3</sup> /h	400 V, 3 Ph, N, PE, 50 Hz	FU

# Conveyor Belts CB 60 and CB 80

## Technical Data

model	belt width in mm	total width in mm	standard lengths	conveyor speed	electric	options
CB 60	550	660	from 1,5 m up to 7 m in 0,5 m steps, special lengths optional	0,20 m/s	400 V, 3 Ph, N, PE, 50 Hz	FU, RB
CB 80	750	860	from 1,5 m up to 7 m in 0,5 m steps, special lengths optional	0,62 m/s	400 V, 3 Ph, N, PE, 50 Hz	FU, RB

- E = electrical heating system
- D = heating system via direct steam injection
- D-WT = steam heating in closed circuit by means of stainless steel heat exchanger, including condensate trap (against extra charge)
- E+D = electrical and steam heating (against extra charge)
- + 9 kW = performance increase with additional 9 kW heating element (against extra charge)
- FU = smooth seamless speed variation from 0,075 up to 0,25 m/s via frequency converter (against extra charge)
- RB = reversible conveying direction (against extra charge)
- 1) = Line-version: operation only in connection with a WEBOMATIC packaging machine with Mitsubishi PLC
- 2) = Touch-version: operation via own touch screen installed on a swivel arm

Steam exhaust and all connections for water, steam, waste water, electric have to be supplied by the client.

Technical modifications reserved.  
All WEBOMATIC machines fulfil the valid European regulations according to CE, EMC, DIN-GOST.



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