

## ABOUT WELKER

### THE WELKER HISTORY:

#### DEDICATED TO THE INDUSTRY SINCE 1856

- 1856 - Foundation of Welker in the city of Lambrecht/ Palatinate. At that time, many paper mills and felt makers were active in the Lambrecht valley and Welker started to render mechanical services for these industries.
- 1936 - First Felt Washing Machine for the Paper Industry. The felt washing is a core activity and Welker was the first company to automate this type of cleaning.
- 1941 - The world's first steamer with indirect steam for the worsted industry was created. In war times, textile production was increased due to military demand and the new process shortened the production substantially.
- 1953 - Roller fulling machines for the felt industry and hammer die cutting machines for the envelope industry. New machines to fulfil demands at that time.
- 1964 - New patent for hydraulic door, invented by Mr. Schultz (the Schultz protection door). Important step for the automation of loading and unloading the heat- setting machines. This system was broadly copied by all later manufacturers
- 1968 - Development of sterilising system at 144°C for special textile uses.
- 1972 - Development of transfer printing machine. One of the pioneer machines in transfer printing from paper to polyester, some units were produced but given up because of low demand at that time.
- 1979 - New fibre shrinking device for SEYDEL. Supply of many units for breaking machines, substituted after some years by further developments.
- 1981 - First ECO- System steamer with indirect heating. The classic heating system inside the machines (so called indirect steam) needed a lot of energy and customers were not satisfied mainly in the worsted and heat-setting sector.
- 1986 - First Tow Annealer developed (TOWMASTER) for shrinkage of acrylic fibres. Supply of substantial machines to the largest fibre producers - please see our reference list.
- 1989 - First glass fibre conditioner for the glueing of twisted yarns. Further supply of these specialised machines to the glass fibre market, keeping the leading position until today.
- 1992 - Development of RADIAL FLOW SYSTEM. Due to the demand especially of the worsted market, special development of inserted fan system inside the machines to increase the distribution of air and saturated steam in the machines. Nowadays a standard device for heat- setting high quality yarns.



The world's first vacuum steamer by WELKER, 1941

### About WELKER

WELKER is a leading German textile machinery company in the field of conditioning and heat- setting since 1856. With more than 1850 installations world wide it is the most experienced long term specialised supplier. More than 60 Agencies world wide belong to the sales and service network.

### Company Philosophy

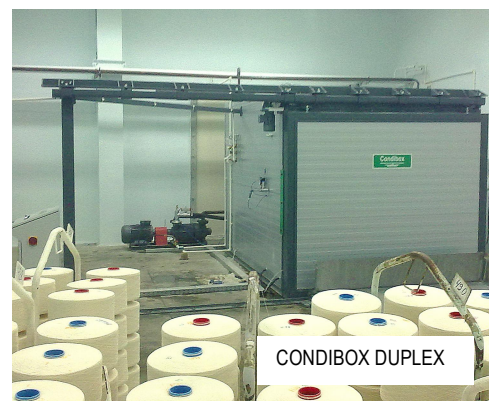
For WELKER, machinery building means customisation. For every new project we study the best possibilities and options for the customer, not any standard solution.

### We take it personally

WELKER is a family owned company and we see our customers in a long term relationship of quality and service. The aim of our staff is customer satisfaction. All machines are made in Germany.



Automated plant



CONDIBOX DUPLEX

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### THE WELKER HISTORY:

- 1998 - Development of rectangular CONDIBOX. Attending the demand of increasing palletisation and automatic pallet transportation, the rectangular CONDIBOX system was developed and introduced to the market, gaining excellent reputation, notably in Europe.
- 2000 - License agreement with ELGI ELECTRIC LTD., India for the type "VAPOFIX". Since then, approx. 500 machines have been sold in INDIA and neighbour countries made out of our design.
- 2001 - Development and patent of TURBOCOOLER for higher moisturisation in cotton conditioning, notably DENIM yarns. Especially DENIM manufacturers have decided to implement this pre-cooling system in their plants, with the aim to increase moisturisation before warping.
- 2001 - Development of Finishing Spray for cooling of heated yarn bobbins. As finishing process, the cooling out of conditioned yarns is supported by this exclusive device.
- 2002 - New UNIPHASE (HUMIVAC) and MULTIPHASE heating systems. Further development of the systems and improvement of energy consumption. Development of AUTO-CLEAN device for reduction of maintenance works in the plants.
- 2002 - New adjustable FLEXMASTER pin trucks. Re-design of trucks with very flexible adjustment of pins, so that diameters can be easily changed in the plants.
- 2004 - New AQUASPRAY spray conditioner developed. Especially for the warm climate countries.
- 2004 - Cooperation with SIEGER SPINTECH LTD., India.
- 2004 - New ROVEMASTER roving bobbins cleaner developed. Small but effective auxiliary equipment to avoid the damage of bobbins and allow to re-use the raw material in the blowroom. Very popular in countries with low degree of automation.
- 2006 - New generation of CONDIBOX with ECOTHERM technology. Attending increasing concerns of customers, the ECOTHERM technology provides "fair engineering" avoiding the waste of energy and water.
- 2007 - Development of small batch machines PICCOLO.
- 2008 - Development of MINIBOX for batches from 25 – 600 kg/h.
- 2009 - New conditioning patent "COOLVAP"
- 2010 - New conditioning patent "PREVAP"
- 2011 - New design of "ROVEMASTER RM8", with 25% production increase, introduced on ITMA.
- 2011 - New design of CONDIBOX "EXCELLA" as high efficiency machine with reduction of 50% of space and 30% of needed energy. New patent of door and seal system.
- 2013 - Launch of WELKER BLUE LINE environmental protective machines.



### From Neustadt to the world

Our plant is located approx. 110 km southwest of Frankfurt, Germany in an old traditional textile area. From here, all WELKER machines leave to their destinations around the world. Our skilled technicians take care that every machine is tested before it leaves the factory. Corrections, if any, are made before the machines leave the factory.



CONDIBOX ASSEMBLY

### PRODUCT PROGRAMME

#### Conditioning Systems:

- CONDIBOX rectangular
- CONDIBOX G special glass fibre
- ECOHEATERS up to 105°C

#### Heat Setting Systems:

- VAPOMAT
- PICCOLO
- VAPORATOR STEAM HEATER

#### Tow thermic treatment machine (Annealer):

- TOWMASTER

#### Sterilisation systems:

- STERIMASTER

#### Vacuum dryers:

- VACUMASTER anaerobic dryers

#### Automation:

- PACKTRACK transportation, wrapping and labelling of pallets

#### Roving bobbin cleaners :

- ROVEMASTER



CONDIBOX AUTODOFFER



CONDIBOX FOR DYED YARNS