

CHTC FONG'S dyeing and finishing innovations

CHTC Fong's has been committed to the development and manufacturing of dyeing and finishing equipment for more than 50 years. In the past decades, CHTC Fong's devoted to the development of energy-saving and emission reduction machines, which is now the basic requirement for dyeing factories.

Together with its well-known brands: Fong's, Monforts Fong's, Xorella, Then, Goller, FWT and Monforts; CHTC Fong's is dedicated in the development of smart dyeing and finishing to build the intelligent dyeing factory. The group presents the one-stop sustainable solution in dyeing and finishing range of pre-treatment, dyeing, post-treatment and wastewater treatment in Hall 6, Stand D05 and yarn conditioning and heat setting in Hall 2, Stand E04.



CHTC FONG'S will exhibit a full line of the most advanced and innovative products and technology including their new products: FONG'S TECWIN High Temperature Dyeing Machine, THEN AIRJETWIN Aerodynamic High Temperature Dyeing Machine, GOLLER DYEPADDER ECONOMICA Nip-in-Trough, MONFORTS FONG'S MONTEX

6500 Stenter Frame Range, MONFORTS FONG'S MONTEX 6500 AIR FILTRATION OMNI Stenter Frame and MONFORTS FONG'S MONFONGS STRAHM HiPer Shrink Astra.

In addition, CHTC FONG'S will also demonstrate the innovative smart dyeing and finishing concepts at their combined booths. ♦

Monforts Fong's relaxation dryer Hiper Shrink Astra – MONFONGS STRAHM



Hiper Shrink Astra – MONFONGS STRAHM.

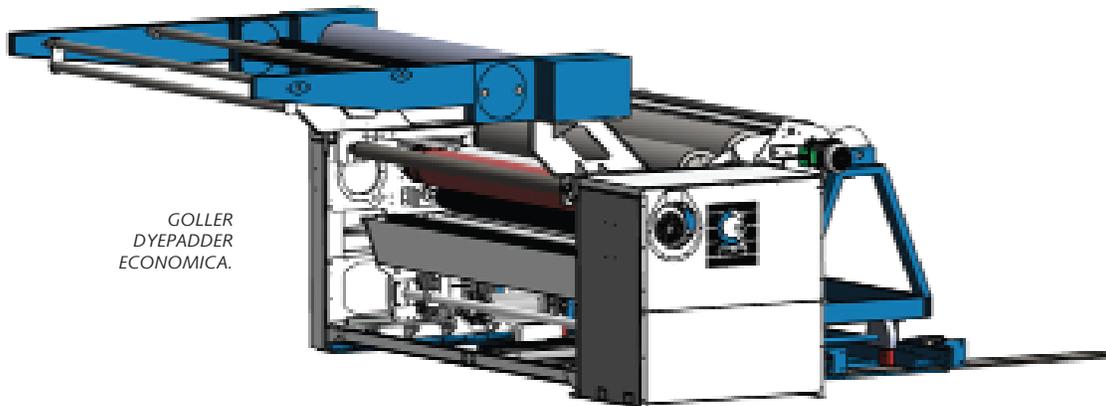
Monforts Fong's recently introduced a new high-efficiency relaxation dryer with the technology inherited from a Swiss textile machine company. This new dryer is named Monfongs Strahm, with model name Hiper Shrink Astra, for open-width and tubular knitted fabrics.

The unique Swiss mechanical design focuses on high drying efficiency, low residual shrinkage, soft hand-feel and low operating costs. This design also incorporates a heat recovery system that reduces energy consumption by half when compared with some conventional dryers.

It is different from general energy saving principle in the industry, which has a higher capacity than that of traditional dryers. The Latin word 'Astra' in the model number of the machine embraces Fong's hope of that product will become the star of tomorrow in the dryer products of textile finishing Industry. ♦

GOLLER DYEPADDER ECONOMICA

Nip-in-Trough with Double Impregnation Mechanism



GOLLER
DYEPADDER
ECONOMICA.

New GOLLER DYEPADDER ECONOMICA Nip-in-Trough with Double Impregnation Mechanism provides even dyeing for knitted fabric without crease mark and distortion.

The newly-designed double impregnation mechanism provides a further improvement on the impregnation

effectiveness in a combination of a lower running tension. The ECONOMICA guarantees reproducibility and handling in the highest standard, a smooth and clear fabric surface is expected after dyeing.

The deflection-controlled rollers of ECONOMICA are working according to

the principle of the swimming rollers, irrespective of the overall pressure of the padder- the deflection of the squeezing rollers is always consistent with the set values to ensure an even dyeing over the fabric width. On top of the deflection-controlled rollers, the large diameter guide rollers ensure a smooth knitted fabric transport with minimal tension incurred, which is beneficial to the dyeing process as a whole.

The double impregnation mechanism consists of a trough with a padder inside and with the minimum level of working liquor required in this case. This mechanism provides sufficient impregnation and low-tension running condition for knitted fabric during the dyeing process. Furthermore, Thermpates keep the temperature of the dyebath as per the set value throughout the dyeing process – no matter it's cool or hot.

With the precise dosing of dyestuff-alkali mixed, the application of precise and homogeneous pick-up and the linear nip of the deflection-controlled rollers, the GOLLER DYEPADDER ECONOMICA Nip-in-Trough with Double Impregnation Mechanism is an ideal open-width dyeing range for knitted fabrics dyeing in small to medium batches. ♦



XORELLA XO-Series: Vacuum Conditioning and Heat Setting Machine

XORELLA's XO-Series energy-saving vacuum conditioning and heat setting machines are ideal for improving the quality of yarn and also heat setting of the garments.

The Xorella XO-Steamer treatment could even penetrate the textile products for humidification; twist setting, preshrinking the synthetic filament, anti-static, colour fixation of digitally printed fabrics and heat setting of the garments. The latest saturated steam generating system could reduce 30% of connected power loading and save between 15% to 25% energy consumption.

In order to satisfy the requirement of different users, Xorella provides both round and cubical machines and also a variety of loading and door opening systems for customer selection. Nowadays, XO-Series machines were used in more than 50 countries in the world. ♦



XORELLA XO-Series: Vacuum Conditioning and Heat Setting Machine.

Fong's Water Recycling System

CHTC Fong's Group, with global service for the dyeing and finishing industry, focused on its principal business in design, research and manufacture of innovative and energy saving dyeing and finishing machines to help a sustainable balance between the industrial development and environmental protection.

Fong's has researched and developed the wastewater treatment technology, to achieve fully automatic operation water recycling system with dual-membrane processes, providing one-stop sustainable solutions of dyeing wastewater treatment, especially for the dyeing and finishing industries.

Fong's Water Recycling System which can reuse any kind of qualified discharge water by using the most advanced and reliable dual-membrane processes ultrafiltration system combined with reverse osmosis membrane system. The

recycled water can be directly used for all dyeing processes after most of the mineral salts, calcium, magnesium hardness, chroma, turbidity and COD

composition are effectively removed from the wastewater. The quality indicator of recycling water is superior to the normal tap water. ♦



Fong's Water Recycling System.

THEN AIRFLOW AIRJETWIN: Aerodynamic HT Dyeing Machine

AIRJETWIN high-temperature airflow dyeing machine, the latest generation of dyeing equipment, which fulfils the various requirements of the dyeing mills.

It is important to note that in case of this new machine, through finite element analysis (FEA), the airflow and water flow situation is analyzed for design optimization. In addition, by combining THEN'S and FONG'S product advantages, the entire machine performance is further enhanced. Some of the main design features are highlighted here for the interest of our readers.

Single-Blower for Multi-Tube

Design: By utilizing single blower with frequency inverter and optimizing pipe network design, the air volumetric flow rate of each tube is evenly distributed.

Integrating Nozzle System: By adjusting various combinations of multiple spraying nozzle and sprayers, the best dyeing performance of a huge variety of fabrics can be achieved.

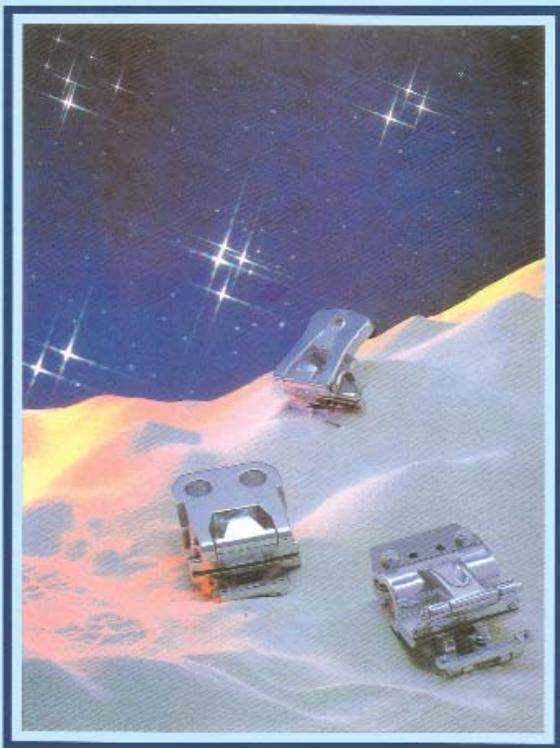
XY Internal Plaiter: Fabric is plaited to and from inside the dyeing vessel to



THEN Aerodynamic HT Dyeing Machine.

achieve an organized fabric stacking pattern inside the storage chamber. It enables smooth fabric lifting, higher fabric lifting speed and reduction of fabric entanglement in the chamber.

Overhead Cleaning System: Effective cleaning is provided through purging to rinse the kier head, thus ensuring no residue colour is left. ♦



GERLACH is one of the world's most important manufacturers of chains, clips and pin links for stenters, with a sales network covering the largest market share. Our strength is more than forty years of experience. That's why we use only premium materials and attribute particular importance to high precision and to a constant quality standards. Thanks to GERLACH philosophy, we have acquired the leading stenter manufacturers worldwide, which we supply with more than 120,000 clips and more than 120,000 chain links a year as well as tube free chains with long life lubrication provided of special synthetic bushes, lasting from 10,000 to 40,000 hours of operation. We can also produce chains operating at 300°C, as well as corrosion resistant chains. All clips are thermally stabilized before delivery. Our plastic film technology division can supply clips for the production of BOPP and BIAx films.

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