

## H.T.H.P. Dyeing Plants



Where coloring technology is at its best



Dalal Engineering traces its roots back more than 40 years, when it set up a unit strategically located at Thane on the outskirts of Mumbai, India, for manufacture of stainless steel equipment. Today, five decades later, the scope of activities of Dalal Engineering has expanded to include operations that cover a diverse range of industrial applications.

It has internationally benchmarked facilities for designing, manufacturing and testing equipment. Continuous technical upgradation at its testing centre is what keeps Dalal ahead of others. Indigenous R&D efforts and technology transfers from some of the world's leading manufacturers is an on-going process in Dalal.

Naturally, quality is the single most important differentiator that sets equipment from Dalal Engineering in a class apart. This inherent attribute is the result of a meticulous multi-stage quality assurance program that covers all levels of its manufacturing.



Having successfully installed over 1200 textile dyeing machines all over India and abroad in countries such as Ireland, Saudi Arabia, Nigeria, Mauritius, Bangladesh, Nepal, Indonesia, Philippines and Thailand, Dalal remains in the forefront of the dyeing plant market.

Dalal's product line includes complete dyeing and drying solutions for capacities ranging from 1 kg to 1000 kgs or more and materials from loose fibre, tops, yarn to fabrics.



Dalal Engineering's range of dyeing related machines include:

- Fully automated H.T.H.P. dyeing machines
- Coupling of two or more H.T.H.P. dyeing machines
- Rapid dyeing machines
- Beam dyeing machines
- Multiple warp beam dyeing machines
- Dryers - Atmospheric and Circulatory High Pressure Dryers
- Laboratory and Multipot dyeing machines
- Variety of Carriers
- Presses suitable for loading cheeses, tops, muffs & loose fibres

## H.T.H.P. DYEING PLANTS

These plants are fabricated in a variety of sizes and are suitable for processing yarn, fibre, tops, tows and muffs. The machines are eco-friendly with MLR as low as 1:5 thereby reducing cost of dyeing and effluent treatment. The axial flow turbo pumps deliver high flow even through hard packages. The controller software is user friendly and the reproducibility is excellent.



## COUPLED MACHINES

Identical capacity dyeing plants can be operated in coupled mode to give uniform shade to a large batch. Coupled machines can also be operated individually to ensure greater flexibility and economy.

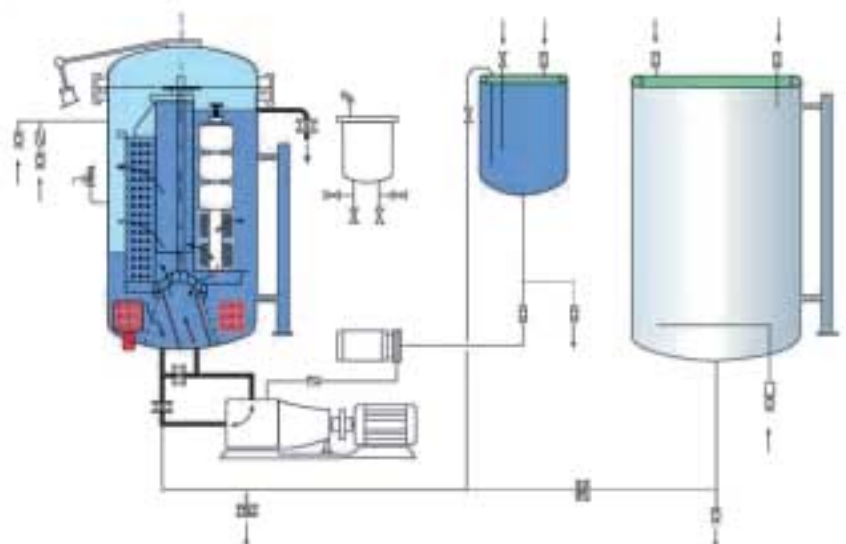
## CROSS-SECTION VIEW

### Air Pad System

The machine is filled with water to immerse the carrier and the remaining space is pressurised with compressed air/inert gas. Liquor flow reversal is possible in the air pad system and reduced lots can also be dyed.

### Short Liquor Ratio System (SLR)

The machine is filled just enough with water to avoid starvation of the turbo pump and remaining space is pressurised with compressed air/inert gas. Only in-out flow is possible in the SLR System.



## BEAM DYEING PLANTS

Dalal Engineering's horizontal plants are available in various diameters with beams of different sizes and varying lengths. This allows dyeing of a single very large width fabric or two smaller width fabrics on a single beam.

These plants are excellent for special applications like processing of surgical gauze fabrics.



## ADLT-K CIRCULATORY HIGH PRESSURE DRYERS

Circulatory Pressure Dryers are ideal for use in hydrophilic yarn packages like cotton, wool, rayon or their blends with short drying cycle.

They are compact, energy efficient, with superior drying characteristics that enhance productivity. They offer all elements in handling of packages resulting in reduced wastage.



## LABORATORY & MULTIPOT DYEING MACHINES

Dalal Engineering's Laboratory Dyeing Plants for yarn / fibre / sliver / muff sampling have various useful features. The capacity ranges from 1 to 5 packages.

Multipot machines facilitate dyeing of different colours simultaneously, thereby reducing time in a sampling exercise. A maximum of six pots for small quantity sampling have been introduced to meet special requirements. Each pot has cyclic reversal flow system. The machines are available with different levels of automation.



## CARRIERS & PRESSES

A wide range of Carriers for dyeing substrates in different forms and a variety of presses for preparation of different types of carriers are available.



### Fibre Carriers

Fibre carriers are robustly designed. Special types can go into a centrifugal hydro extractor along with the material. Also available are double decker carriers suitable for tall machines. Heavy duty carriers are suitable for hydraulic pressing.



### Top Carriers

Top carriers are ideally suited for pressing tops pneumatically. These carriers are designed for easy unloading of tops and are constructed specially to ensure years of trouble free service. Gravity lowering caps help to take care of shrinkage during the process and improve dyeing quality.



### Pressing Machines

Pressing machines feature a turntable with special bearings for easy cheese pressing on spindles of carriers. They are available with an additional trolley or adaptors for pressing cheeses on different capacity carriers.



### Cheese Carriers

Cheese carriers feature perforated spindles that are tailor-made to suit package dimensions. These carriers are suitable for pressing cheeses pneumatically. Variable loading type carriers available for dyeing reduced batch sizes.



## Sagar

Sagar Group is the marketing agent for Dalal range of dyeing and drying plants. Set up in the seventies, Sagar Group has grown multifold with about 8 regional offices in the main textile centres of India. Sagar is well networked in the country, representing more than 45 reputed textile equipment and accessories manufacturers, worldwide. Sagar, also has associated offices in UAE, Pakistan and Bangladesh.

Over the years, Sagar has built relationship with its customers through a nationwide network of regional offices. The forte of the company is a meticulously articulated administration of their philosophy of service with quality and precision.



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