

Today, two decades later, the scope of activities of Dade Engineering has expanded to include operations that cover a diverse range of industrial applications. This has been made possible by its constant endeavour to upgrade technology. This endeavour is supported by a highly efficient and modern research and development laboratory with its team of trained technicians.

The company has introduced several new techniques to the industry, the most significant of these being its pioneering venture into jet-drying machines and high-velocity drying machines.

The major product lines include:

- Drying, drying, fabric finishing and other textile equipment for the textile industry.
- Dryers, evaporators, filters, filters, systems, and other process equipment for the chemical, pharmaceutical, and fine chemical industries.
- Filtration and centrifuge finishing equipment for surface quality finishing applicable in a wide spectrum of industries viz., chemicals, pharmaceuticals, ceramics, plastics, and many more.

Quality is the fourth dimension that sets equipment from Dade Engineering in a class apart. This inherent feature is the result of a stringent multi-stage quality management program. Considerable investments have also been made in training to encourage quality enhancement at all levels.

With over 50 years of solid experience, Dade Engineering Pvt Ltd operates in the research, design, manufacture and sales of processing equipment. The oldest division of Dade is the processing division. The products in the processing division range from rotary vacuum dryers to solvent film evaporators and then to solvent recovery plants.

- **Wiped film evaporator:** The Wiped Film Evaporator (WFE) is used for evaporation/concentration of heat sensitive liquids and slurries under vacuum conditions. It employs thin film technology which yields high heat transfer coefficients making the process highly effective. Due to a short residence time, higher yields

temperatures are possible without thermal degradation.

- **Filter dryer:** The agitated pressure filter dryer is a single machine that satisfies the filtration, washing, drying and discharge requirements. This reduces capital cost, saves tremendous space, and requires much less drying volume, instruments etc. A single machine also saves a lot of handling and manpower, and is an ideal equipment for most products and pharmaceuticals. The chemicals shown in combination can be selected.
- **Rotary vacuum dryer:** Rotary vacuum dryers offer clean, simple and effective method of drying wet solids, powders and even slurries. Labour and energy costs are minimal compared to tray dryers and product losses during handling are also negligible. Additionally, valuable space which would be otherwise consumed is minimised.
- **Solvent recovery plant:** Dade Engineering Pvt Ltd works up to 95% efficient recovery and distillation of solvents from the waste stream. The solvent recovery plants are designed and constructed using the highest engineering standards and the quality of the recovered solvent is guaranteed. A complete engineering service including detailed services to include the economic benefit is

provided and made of your solvent or emissions are also part of the project.

## Technorama

Tecnorama, always sensitive to quality and productivity themes, conceived, planned and realised a considerable number of equipments able to noticeably increase the quality level for both laboratory and production dyeing.

The R&D department of Tecnorama followed has the evolution of the spectrometric analysis of the dye-bath and applied technologies working in transmittance, i.e. equipment that analyses the spectrum of absorbed light of a dye in a coloured solution.

This analysis is essential for studying and optimising dyeing processes and controlling principal qualitative characteristics, such as:

- the uniformity of dyeing
- the reproducibility of dyeing
- the compatibility of dyestuffs
- control of the degree of absorption of single dyestuffs
- optimisation of the duration of processes
- energy savings
- water consumption
- optimisation and savings by using auxiliary and chemical products.



*The Spectrodyne is an innovative, original and highly accurate system.*



The Spectrodye is an innovative, original and highly accurate system developed by Technorama to analyse transmittance using an optical device, in dye solutions or dispersed dyes. This analytical tool can measure continuously and in real time, the presence of one or more dyestuffs in a liquid, recording the relative single concentrations present during each reading operation. The Spectrodye can successfully be used in the laboratory dyeing machines (DOS & DYE Spectrodye) and in the bulk production ones (Spectrodye system).

In both cases, machines equipped with this system become 'smart', i.e. they can save and provide all the information needed to have an in-depth knowledge of all technical aspects of the dyeing cycle and of the changes that occur inside the machine in real time and with the utmost precision. The Spectrodye system can be used to obtain a complete and true picture of what is happening during the entire dyeing cycle, step by step, e.g. the checking of the amounts of dyestuffs present in the bath at the start of the cycle, pH value, temperature the exhaustion of single dyestuffs during the process conditions change, and finally, the checking of amounts that are discharged during the various washing phases. Simple comparative controls can also be performed, checking the yield of different batches of single dyestuffs and their dyeing compatibility, thus improving the quality of procurements and avoiding waste and errors.

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The complete solution provider entered as a small trading company for German textile machinery way back in 1930 in Indian textile markets. 80% now, has grown its business organically and inorganically. With care and quality as its identity, it has grown and expanded its industrial sales, distribution and service business. This business is now handled by 80% Entrepreneur Private Limited (EPL).

The company has three strategic business units:

- **Seattle Engineering Group**
- **Industrial Product Group**

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Tuttle Engineering Group provides turtle engineering solutions to the turtle value chain in India and neighboring countries. Backed by over decades of experience, world renowned specializations and an impeccable reputation for world class products and services, TEG is well established in the Indian turtle industry. It is capable of providing a complete solution across the turtle value chain.

WSPN serves its own group categories, group joint venture partners and many leading international companies like Volkswagen, German Schaeffler Group, German Bosch Motors, Apple Motors, Ford's, Mercedes, Renault, Fiat Group - Canadian Fiat, Ford and Mercedes, Fiat and many more. All put together, it works with over 50 Indian and international groups of world class in India and engineering countries such as in China, Bangladesh, Nepal as well as other countries across the world.

ATC offers a wide array of services to its customers, ranging from pre-piped infrastructure, pipes, scaffolding, turning pipes, valves and decommissioning, trouble shooting, technical audit, customer training, annual maintenance contracts, space work handling etc. ATC has set a high standard in providing services to its customers with a target response time of 48 hours.

ATC partners with its customers to help them to achieve their objectives. It achieves customer sign-off from project conceptualisation through project implementation and provides updates on industry developments, innovations, opportunities and trends. In addition, ATC provides the convenience of a single-window solution to its customers.

ATI will be participating at IME India, with its extensive programs to showcase the most fresh and strong young machinery which will enhance value and give complete performance satisfaction to Indian textile mills.

## James W. Ward

series it that has designed an instrument that introduces new work

of ease of use and operation whilst performing consistent and repeatable light business testing. - *André*

Spurtec® was designed with an entirely new approach that was focused on delivering an instrument that truly distinguishes itself through innovative engineering and exceptional quality and value. Spurtec® not only does stimulate sunlight faithfully, it also replicates a wide range of temperatures and humidity levels in closely controlled conditions. In Spurtec® the samples being tested rotate around a 2200W air cooled ceramic lamp specifically designed for long-term performance. The 2200W lamp faithfully reproduces the closest simulation to natural sunlight essential when one needs to predict a fabric's performance in real life situations.

advanced  
 engineering  
 techniques  
 and  
 extensive  
 quality  
 control  
 capabilities  
 have enabled  
 us to  
 develop a  
 family  
 range of

optical fibers, used to modify and control the spectral output of the lamp. Furthermore, the ergonomic design of the system enables operators to quickly and safely remove and replace the fibers.

Apriori can be as simple and straight forward, or as complex as one wants it to be. The instrument's control software has been designed so that tests can be run in completed in a trouble-free and reliable manner.

The instrument also comes equipped with a built-in high-speed, long-life thermal print printer. Its primary function is for the continuous monitoring and logging of testing conditions but it can also be used to document the setting of each test and for fault diagnosis.

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