

TECHMATIK®

A COLUMBIA MACHINE, INC. COMPANY



Techmatik is a Polish company from Europe. It started production of block making machines in 2004. Techmatik manufactures high-quality equipment for the production of concrete and complete manufacturing plants for the Polish and foreign customers from over 50 countries on almost all continents. The company delivers its solutions directly to customers in many European and Asian countries, both Americas as well as in Australia and New Zealand

In February 2016 COLUMBIA MACHINES Inc acquired Techmatik S.A. Now a part of Columbia family of companies. Established in 1937, Columbia Machine is a third generation, privately held, world-wide leader in the design, manufacturing and support of equipment for a variety of industries, with customers in over 100 countries around the world. Primary business units

include: Batching and Mixing Solutions, Concrete Products Equipment Solutions, Production Equipment Molds, Mechanical Palletizing Machines, Robotic Palletizing Solutions, Conveyor System Solutions, Pallet Load Transfer Solutions and Manufacturing Services.

In line with the products made by Columbia the Techmatik range compliments and supports the full range of products which includes moulds for production of paving blocks and decorative concrete products; modern, high-performance concrete block machines; complete process plants; concrete mixing plants; and various machines used for manufacture of vibrated & pressed, as well as ready-mixed concrete.

The equipment supplied by Techmatik is more reliable, have advantage of energy savings, and equipment's has flexible applications. The company follows the path of providing innovative engineering solutions. The machines have controlled and integrated system which in turn ensures the superior quality of products and repeatability of production. The machines have compact design leading to modern manufacturing processes. All machines when in operation have

low noise emission levels.

Looking into the Global scenario where customers look for quality equipment with an affordable price all Techmatic equipment are competitively priced. It actually suits Indian conditions very well where customers are given 'Value for money'.

In all the major brands of block making machines available in India Techmatik equipment will be most preferred by the customers for all the points mentioned above. For Indian market the model SHP 5000 PRO C and HP 3000 C PRO are the ideal machine models. Beside these two-model's other equipment made by Techmatik are automatic handling system (Stacker and Unstacker), Transporting cars (Finger cars), crossover conveyer, Robomatic cuber, Pallet dispenser, Automatic stretch wrapper, splitters, washmatic – the product washing system, Planetary concrete mixers and Tumbler.

SHP 5000 PRO C

The main advantage of this machine is that customer can produce wide variety of products with height varying between 40 mm to 550 mm. Energy consumption is low due to innovative drives and kinematic pairs. The products are made on steel pallets which results in high quality of products. If a customer chooses to make colored products the machine is equipped with COLOURMIX system for manufacture of colored products. The full machine has a compact

design where by hydraulic unit is integrated with the machine. The machine is fully automatic with visualization at all stages of production process. HMI touchscreen operator interface provide loads of information in an easy-to-understand format. While the machine is in operation lower noise level is achieved by accosting insulation of most noisy components. In all the machine is ecological friendly.

There are many key features in this model like compression head counter weight. In this machine all structural members moving inside body of the machine counter balances weight of the compression head and due to this the energy required to move the stamp is reduced. Similarly, the power of the hydraulic unit supplying the machine is lower and just one hydraulic cylinder is enough to drive the compression head mechanism instead of the two usually seen.

The other noticeable feature in this machine are mould change fork frame and Oil lubricated vibrator assembly. Now the mould changing is much easier as the hydraulically driven mechanism is replaced by the new one. As far as the vibrator assembly is concerned the new one is not permanently attached to the machine's structural elements, therefore vibrations transferred to the machine are significantly reduced. This oil lubrication system

extends the life time of assembly and considerably reduces the scope of the operator's work.

Additional Equipments

There are many equipments made by Techmatik to refine the products. Such as product washing stations - WASHMATIC. In this method products are exposed to decorative aggregates thus enhancing the aesthetic and functional values of products. It is equipped with a housing and an independent control.

TUMBLER- It is designed for surfacing of concrete paving blocks in order to achieve the appearance of worn paving stones. This is called as vintage paving effect.

SPLITTERS- The splitters are multifunctional. Which means precise splitting of low and high concrete products to the height of 317 mm. It's design is simple so that there can not be any fault in it's operation. The items on the work table are accurately positioned. Even large dimensional products can be split as the work table can be adjustable. Even large blocks are precisely split.

PALLET DISPENSER- This device feeds the pallets to the Robomatic cuber which stacks the finished products on them. The pallet dispenser is fitted with a pneumatic drive only. Featuring FESTO actuators. The automatic operations of both the machines are synchronized.