Assuring Quality

Comprehensive checks and tests at ali stages - from raw material, in-process manufacture and, functional tests and evaluation of the finished product, assure quality through use of modem technology.

Computer aided design and application simulation, along with modem production methods, ensure equipment performance and reliability.

Our integrated quality assurance system contributes to the production of machines and installations that meet the required standards of technical performance as well as safety of equipment and the environment.

Consultation and Service

Our service starts “before-sales” through communication and contInuous Interaction with customers. The service concept leaves no gaps- erection and commissioning, customer training on operation and preventive maintenance followed by our efficient spare parts service - all contribute to keep your plant in shape and trim.

REGISTERED OFFICE

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International Combustion (India) Limited

MULTI-DECK SIZER

Intelligence in Sieving

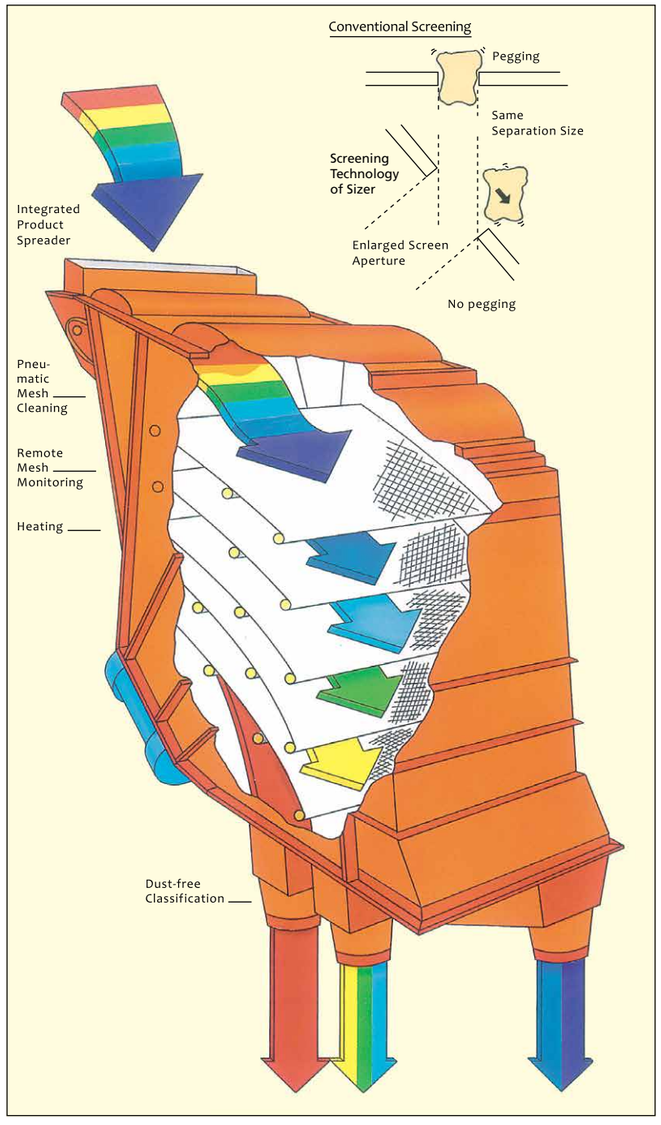
Technology
Mogensen GmbH & Co. KG
Germany

C.2404

The Multi-Deck Principle

3 to 6 inclined screen decks with progressively finer mesh apertures are arranged in a functional and compact manner in the vibrating screen frame.

Because of the inclination in the meshes the screening effect and thereby the separation size are appreciably smaller than the apertures in the mesh panels. This drastically reduces the risk of pegging and increases the capacity considerably because the coarsemesh system Induces a dispersed materelal flow without the build-up of a bed of material. Residence time in the machine is short. The processed material falls vertically and rapidly through the Sizer whereby coarse particles are removed early in the screening process from the required product stream. Wear and tear on the finer lower decks is greatly reduced.



Facts & Data

- Separation range 0.1 to 50 mm
- Copacities 0.1 to 1000 t.p.h. for all types of materials and slurries
- 2 to 6 fractions per machine
- 3 to 6 sieve decks per machine
- blockage-free screening
- compact construction

• low weight (minimum dynamic loading) • dust-proof and quiet operation • automatic sieve cleaning • heating or spraying options • Integrated feeding and product chutes • automatic remote mesh tension monitoring • modular construction system

• machine widths from 0.5 to 3 metres • construction in carbon steel, stainless-steel and special steels • temperature range from 50° to +500° C • easy to install • adjustable for inclination, amplitude and frequency

The MULTI-DECK Sizer Principle Means High Capacity

The problems of conventional screening system lie in their old-fashioned concept “mesh aperture equals size of separation.” This results in failings such as slow moving thick material beds, risk of pegging by closed-sized particles, low specific capacity, large screen deck areas and thereby heavy machines, which use a lot of energy and require heavy steel supports.

The Multi-Deck technique, with progressively inclined and stepped mesh apertures, is a prime example of creative problem solving.

More class than mass

Automatic Sieve Cleaning

A new method, by which sieve meshes are self cleaning as a result of controlled tension reduction by means of tensioning cylinders. The mesh panels clean themselves by fluttering against the mesh support bars without any break in the screening process. Both the cleaning cycle and the length of each cleaning period are adjustable according to process requirements. This method has already been proved in many practical applications.

Integrated Feeding and Feed Distribution System

Pre-segregation (material stratification) inside the machine to achieve an increase in screen capacity. Flexible and adaptable for differing material streams and properties. Cost savings in space and expense compared with separate feeding and feed distribution equipment.

Dust-proofing and Optimised Product Chute System

Dust-proofing has been optimised in all aspects to facilitate minimal maintenance and long life. Integrated feed and product chutes, functional in their arrangement, are combined with a new dust sealing technique.

Mesh-Tension Monitoring

Correct, even tensioning of the sieve meshes is essential forfunctional correctness and durability. Sizers can be fitted with sensors for the monitoring of the meshes. A broken mesh or an inadequately tensioned mesh will produce a signal. This makes regular visual inspections unnecessary.

Mesh Tension Pneumatic Cylinder