International Combustion (India) Limited

OMNI CS
Crushing & Screening
Ltd
Brazil

OmniScreen

A revolution in screening technology





- Modular
- Linear Motion
- High Acceleration
- Large Screen Area
- Low Mass
- Low Maintenance
- Easy Installation

C.5102

The Patented Vibrating Assembly provides Customised Screening Performance

The OmniScreen's unique vibrating assembly and the modular concept have resulted in a linear motion screen that can operate at substantially higher acceleration providing unparalleled flexibility and screeening efficiency.

Modular Concept

Optimise Slope

The modules can be arranged in horizontal, inclined or multislope configurations or in a combination thereof.

Optimise Acceleration

Each module can be tuned to provide specific acceleration of between 4-7g, to maximise screening capacity and efficiency, eliminate blinding, reduce recirculating loads and minimise degradation. Wet or dry, the OmniScreen offers superior performance. Exciter mass adjustments from 60 - 100% amplitude is quick and simple - no special tools or skills required.

Customise the Screen Panels

Customise the screendecks on each module. Take into account changing slopes, changing speeds and accelerations, scalping or sizing, wet or dry. Using polyurethane, rubber or wire screen media, producing right sized product has never been easier.

Benefit Highlights

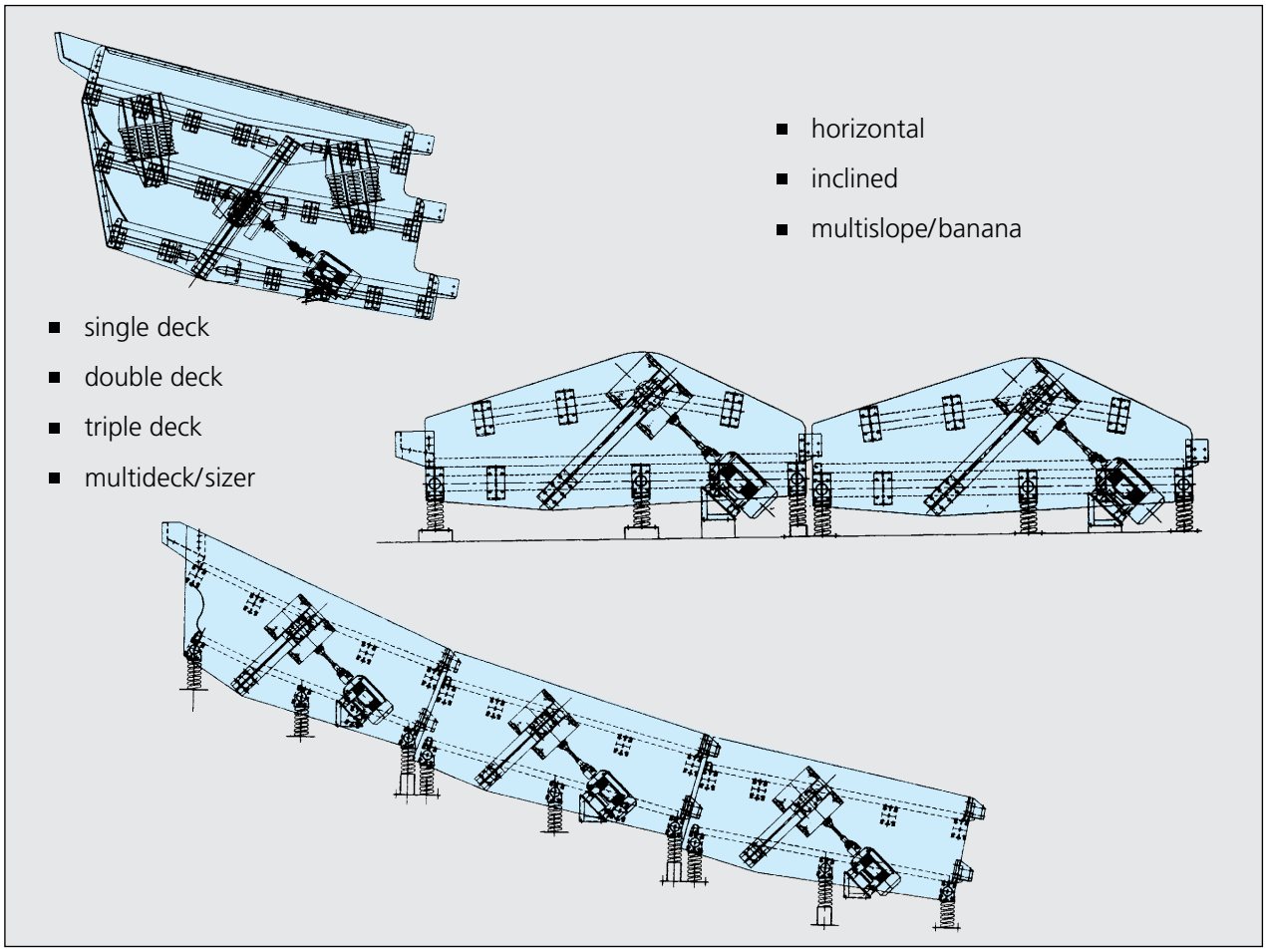
- Higher capacity
- Excellent screening efficiency

Patented Drive Mechanism

The PATENTED drive mechanism is the heart of the OmniScreen. Many of the benefits are made possible by the unique VIBRATING ASSEMBLY. The compact and incredibly strong assembly is a simple solution to contain the lateral tension and compression forces. This makes it possible to run the OmniScreen continuously at up to 7g if required. Particularly difficult or sticky applications can have intermittent acceleration up to 10g with the addition of a Vari-Speed Drive.

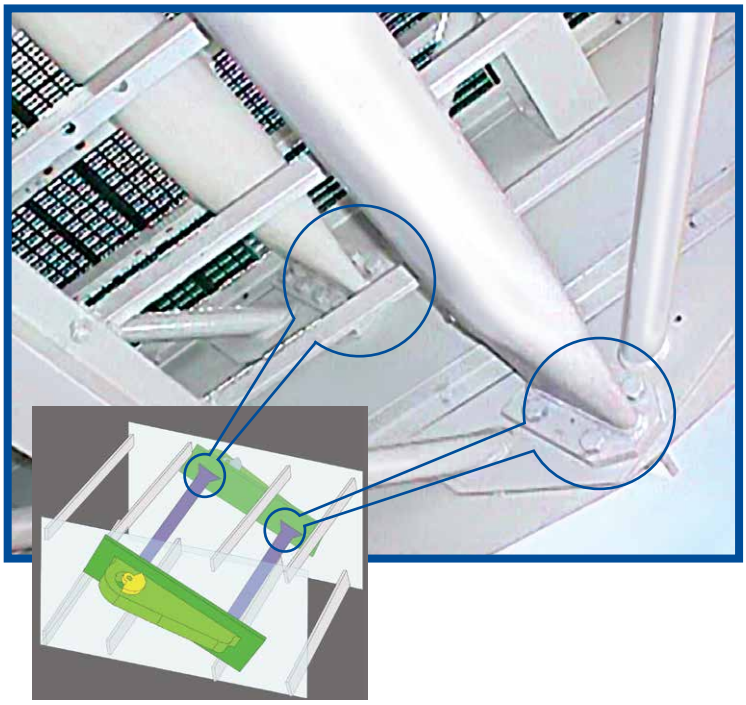


Screen Arrangements



How The Drive Works

- The vibrators are fixed to a structure that is both independent and much stronger than the other structural parts, which contains and controls the lateral tension and compression forces
- The vibrating assembly is mounted at 45 degrees to the screendeck
- The vibrators are driven by contra-rotating motors via a carden shaft. The motors are mounted separately beside the screen
- The vibrators are self synchronising thus no interconnecting drives are required
- The side plates are sandwiched between the flanges of the VIBRATING ASSEMBLY.



OmniScreen Installation Benefits

Installations

- New installations mean reduced structural requirements
- Reduced vibrating mass means lower dynamic loads
- Old plants retrofitted with confidence
- Easy installation as compact modules are easy to handle and install



Benefits

- Reduced building costs
- Lower installed power
- Simplified installation



OmniScreen Specifications :

Screen sizes	Width 1.5m to > 3.0m (5' - > 10') Length 2.0m to > 9.0m (6' - > 30')
No of modules	1, 2, 3
No of decks	1, 2, 3 and special designs
Slope	Horizontal, inclined, multislope
Screen gradient	-5° to 30°
Process for	Scalping, sizing, washing, dewatering
Acceleration	4-7g
Frequency	750-1500 rpm
Screen mass	2-8 tons/module

Caps Micrographics

REGISTERED & CORPORATE OFFICE

IC International Combustion (India) Limited

INFINITY BENCHMARK, 11th Floor, Plot-G1, Block-EP & GP, Sector – V, Salt Lake Electronics Complex, Kolkata – 700 091
Ph: (033) 4080 3000, e-mail: info@internationalcombustion.in, Website:www.internationalcombustion.in