



Manufactured in the UK

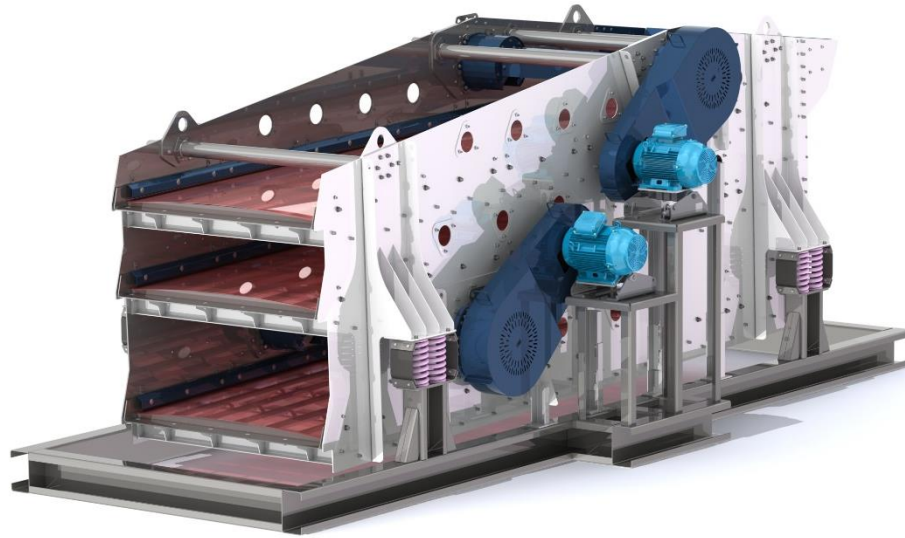
# QMS Inclined and Horizontal Screens



T. +44 (0)1530 811081

E. [sales@qmsupplies.co.uk](mailto:sales@qmsupplies.co.uk)

W. [www.qmsupplies.com](http://www.qmsupplies.com)



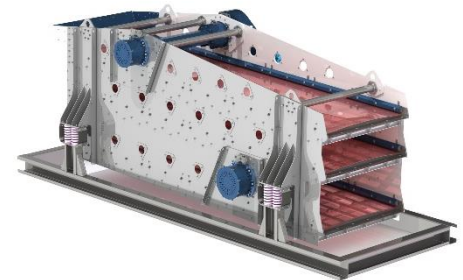
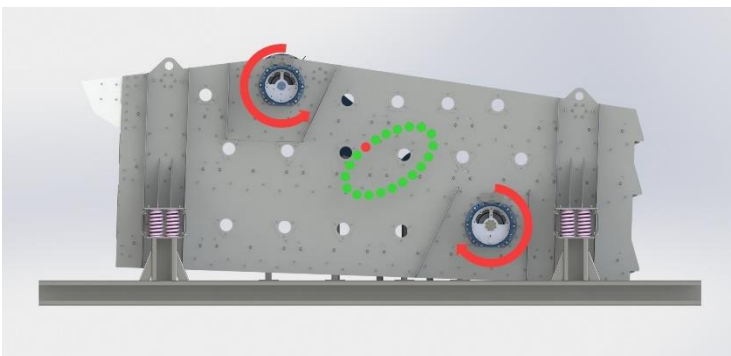
## QMS Horizontal Screening Range

The QMS horizontal screen (SVH) operates an elliptical motion with high G-forces to provide strong stratification of the bed depth to deliver high screening accuracy and efficiency. The horizontal screen is made up of our universal deck design with weld free side panels and large spacing between the decks for easier access. The screen features a large built in feedbox with replaceable wear panels to facilitate easier material feed onto the screen, having the feedbox as part of the screen helps distribute the material straight away making more use over the first panel, improving efficiency.

### How it works:

The two unbalanced shaft lines rotate in opposite directions to generate a high-energy elliptical motion. Each shaft line is made of two Modulating Vibrating Unit (MVUs) being flange mounted to the side walls and synchronized by a cardan shaft. The screens motion is created by utilising these MVUs to produce the elliptical motion. Stroke and RPM can be easily adjusted via the bolt in counter weights on the MVU's, to obtain the best performance of the screen for the type of material being screened. The screen angle is adjustable from 0-10° to increase the capacity when needed.

This innovative solution is more efficient than traditional horizontal screens with linear motion. This engineering design eliminates the requirements for mechanical timing devices, gears, timing belts. Grease lubrication means that oil leakage issues are removed.

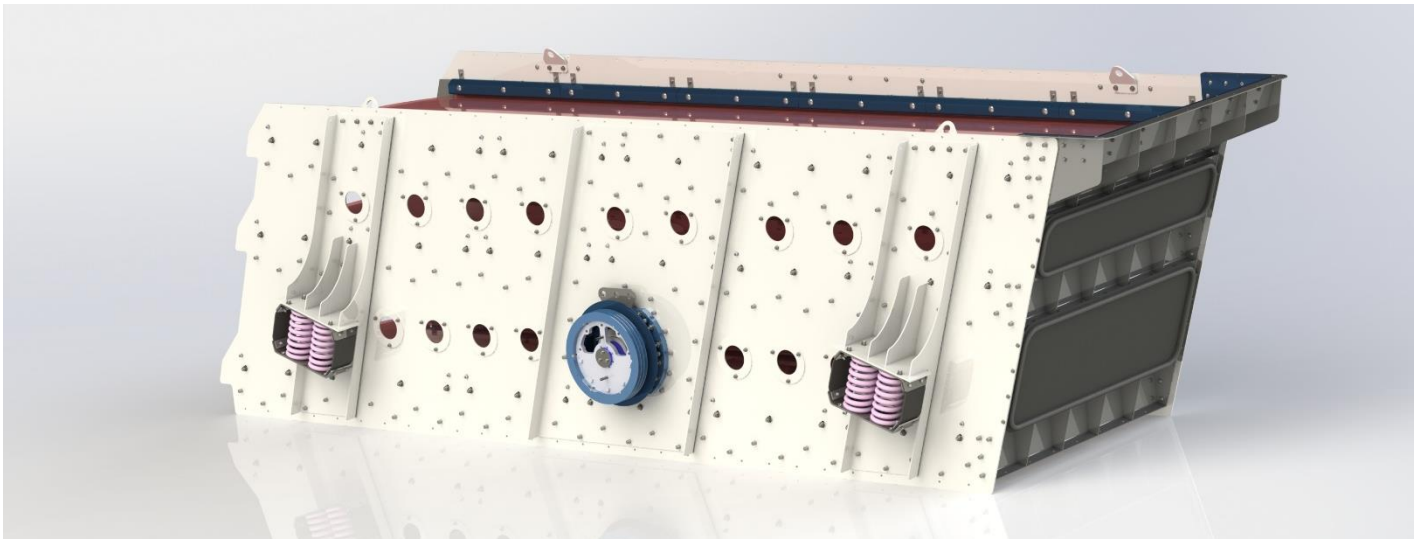


### Features:

- Horizontal elliptical motion screen
- Universal deck design
- Adjustable screen angle 0-10°
- MVU Vibrators
- Designed and manufactured in the UK
- Adjustable stroke and RPM parameters
- Deep and long integrated feedbox to allow easy interface with feed conveyor
- Fast panel replacement
- Huck bolted design
- Replaceable rubber liners in hard wearing areas
- Weld free side walls and cross members
- Optional cross member lines are available



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# QMS Inclined Screening Range

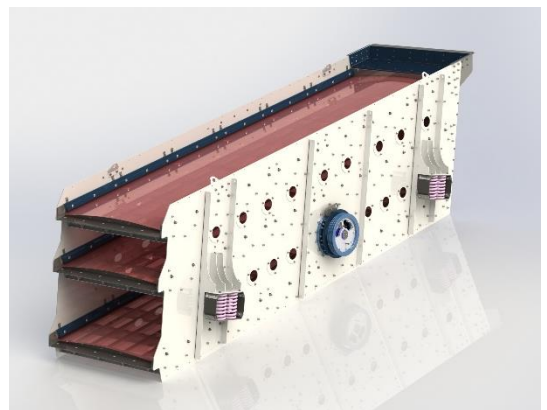
The SVI range is engineered to the highest standard with heavy duty, high quality materials used throughout to give maximum throughput and strength through its lifetime. The SVI range is ideal for use in applications including sand & gravel, crushed stone, coal, concrete, recycled materials, iron ore and many more. The QMS SVI screens are easy to assemble and include integrated galvanised walkways, handrails and steps and a modular quick set-up support structure.

## How it works:

The SVI Screen series has a drive mechanism that consist of two MVU vibrators connected with a cardan shaft. The shaft line is positioned at the centre of gravity resulting in a perfect circular motion at all points of the screen. Combined with an adjustable inclination from 12-22°, this circular motion gives very good screening efficiency for all types of applications such as primary, secondary, and final size screening. Adjustable counterweights allow for easy eccentric stroke adjustment to fine tune performance specific to the application requirements.

## Why choose a QMS screen:

- Scalping
- Intermediate sizing
- Finished screening
- Virtually any material
- Available in a wide range of models and sizes
- Applicable in all types of screening
- UK manufactured
- Low maintenance and service costs
- Global distribution
- Service commitment
- Bespoke screens available if required



## Features:

- Inclined circular motion screen
- Universal deck design
- Adjustable screen angle 12.22°
- MVU Vibrators
- Designed and manufactured in the UK
- Adjustable stroke and RPM parameters
- Deep and long integrated feedbox to allow easy interface with feed conveyor
- Fast panel replacement
- Huck bolted design
- Replaceable rubber liners in hard wearing areas
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## Design

The QMS screen design comes from various intense studies carried out by our research and development team, including FEA and Fatigue Calculations, bench testing, theoretical calculations, CAD tools and on-site tests.

## Manufacture

All QMS screens and components are 100% manufactured and built in-house at QMS. Our purpose built manufacturing facilities equipped with CNC High Definition Plasma, CNC Press Brake and Spray Booth, allow us to meet all of our customer's specifications and individual requirements within a suitable time frame.

## Low Cost

From purchase to operation, the QMS screen is one of the most economical screens on the market. With QMS's substantial investment in purpose built Fabrication and Manufacturing facilities, cost of production has been decreased.

All wear and spare parts have been standardised, creating high availability and eliminating downtime. A range of screening media from various manufacturers can be applied to the QMS Screen, allowing flexibility for different applications and replacements.

## Maintenance and Safety

Compared with other circular motion screens, the QMS screen offers maximum space between decks. This makes it easier, safer and more comfortable for operators during maintenance intervals.

This is not the only thing that contributes to the fact that the QMS screen is maintenance friendly; our vibrating mechanism is an alloy steel shaft fitted with grease labyrinth seals and amplitude adjusted by moveable balance weights. The equally balanced forces ensure that there is not a bending movement at the side plate along with lower stress levels in the screen body. Optional high quality modular rubber liners at the feedbox, discharge spouts, and shaft, provide optimal service life and come as standard features. Easy maintenance and quick replacement of screening media, wear liners, and spare parts allows you to maximize uptime and improve the profitability of your production.

The QMS screen has a V-Belt drive equipped with safety guards and just one centralized conveniently located greasing manifold.

## Modular Wear Parts

The high availability of wear parts helps minimize both downtime and operational costs. The feedbox and discharge chutes come with wear resistant steel and impact resistance wear plates as standard features.

The QMS screen is extremely robust; it has uniquely considered deck frames that are designed to handle both modular and side tension screening media that is easily interchangeable from one to the other.



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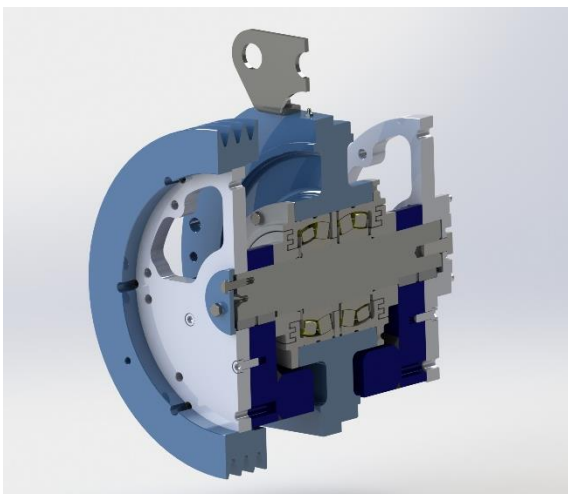
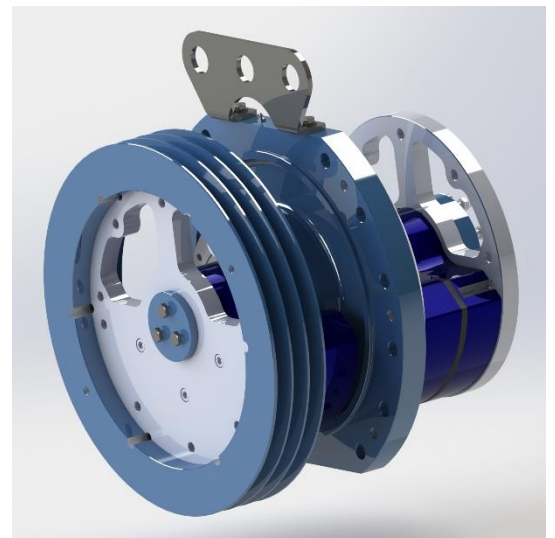
## QMS Modular Vibrators

QMS's range of SVI- Inclined and SVH -Horizontal screens are now featured with Modular vibrators. The extremely compact and interchangeable units make maintenance far easier compared to a conventional shaft design. With two bearings per vibrator they offer exceptional long bearing life. The vibratory mechanism is located at centre of gravity, giving circular motion in all points of the screen.

There are 3 sizes of Modular Vibrators available to cover the range of QMS screens

### Design

- 2 bearings per vibrator, offers longer bearing life
- Adjustable stroke, allowing application flexibility
- Grease lubrication, avoiding risk of leakage or contamination
- Compact design



### Lubrication

Initial grease fill is with synthetic grease but the following options are also available:

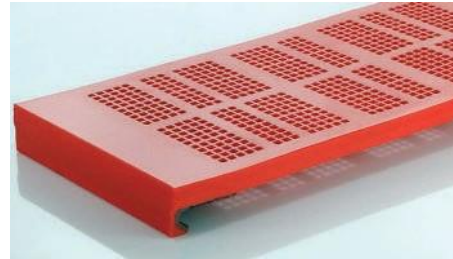
- Mineral grease
- Synthetic grease
- Automatic greasing



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# Multiple Screening Options

These standard and optional extras enable you to customise your screen according to your requirements:



## Optional Extras:

- Dust sealing system
- Spray bar System, for wet screening
- Galvanisation treatment
- Coil spring covers
- Cross member protection
- Modular rail, wear protection
- Automatic greasing kit

## Standard:

- Modular Screening Media, various options available
- Tensioned Panels
- Heavy Duty Bolted Panels
- Centralised grease fittings, to allow ease of maintenance

For more information or a tailored quote, please contact our sales team on:

CALL US

+44 (0) 1530 811081



EMAIL

[sales@qmsupplies.co.uk](mailto:sales@qmsupplies.co.uk)



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