


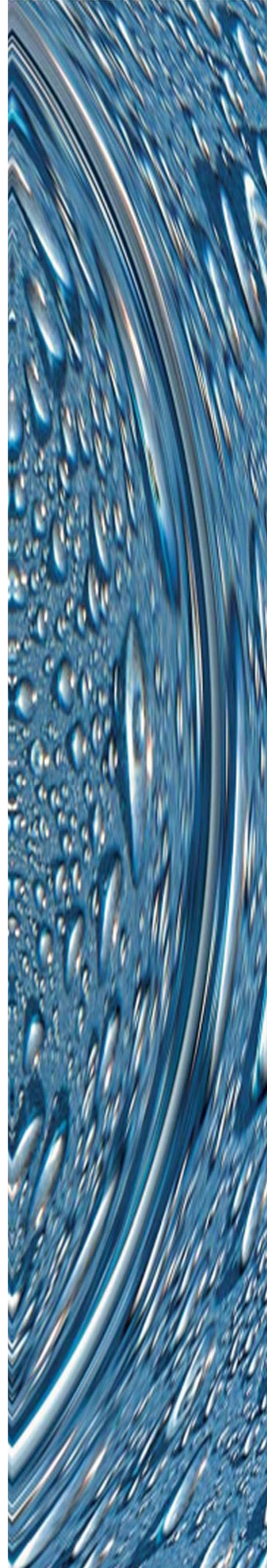


MID/V Vertical Screens

-  *Sumps, Chambers & Pumping Stations*
-  *Pre-treatment of Domestic & Municipal Waste Waters*
-  *Recovery & Solids Processing from Industrial Discharges*



M.A.IND

With over 4,000 installations around the world, M.A.IND has developed a good reputation with a philosophy of offering high quality at low cost. This has served to provide equipment to smaller industries or applications where previously it was considered unviable and offers a lower purchasing cost for larger applications.

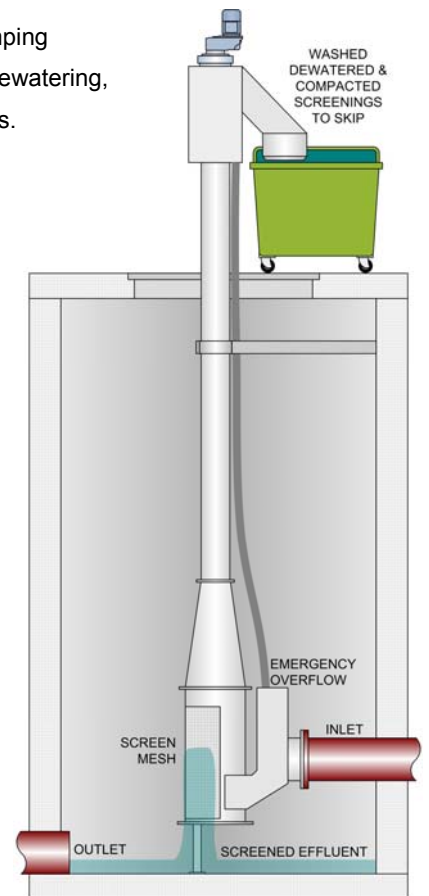
MID/V -Vertical Screens - Operation

Designed to be installed into sumps, manhole chambers, underground chambers, pumping stations, etc, M.A.IND vertical screens provide a solution to facilitate lifting, washing, dewatering, compaction of solids and improving the performance and reliability of drainage systems.

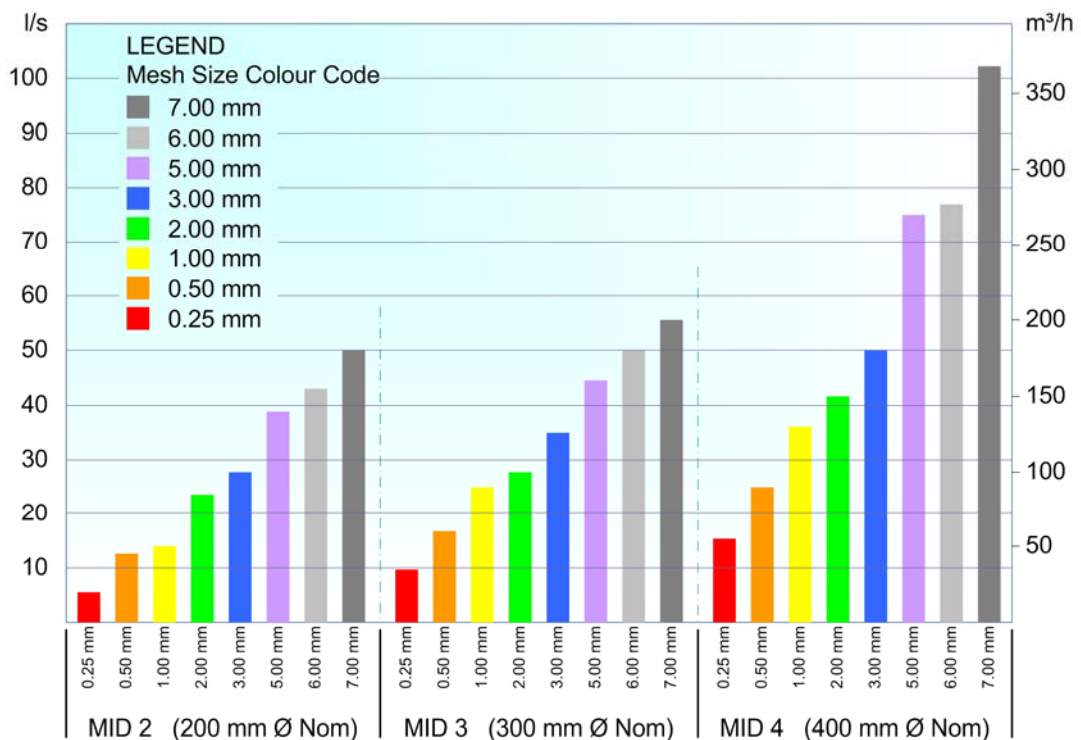
MID/V vertical screens are integrated machines consisting of a screen, a spiral and a press unit. During operation, solids in the incoming flow will progressively collect onto the screen mesh. At a pre-set inlet water level, the spiral will be activated and convey the solids up to the pressing zone, brushes fixed to the periphery at the lower section of the spiral will clean the screen mesh.

The solids or screenings are compacted and dewatered and depending upon the solid properties, a volume reduction of around 40% DS or greater can be achieved prior to discharging the screenings into a skip or wheelie bin. Continuous bagging systems are also available to receive screenings and abate odour, the screenings can then be sealed without any personal contact.

A jet wash facility will break down and remove faecal and other semi-solid or soluble matter and return it to the inlet flow. Additional jets can be installed to the wash system to meet a higher specification of organic removal from the solids. Faecal matter washing efficiencies greater than 90% can be achieved.



MID/V Vertical Screen Chart (MID/V 2 – 4)



Availability

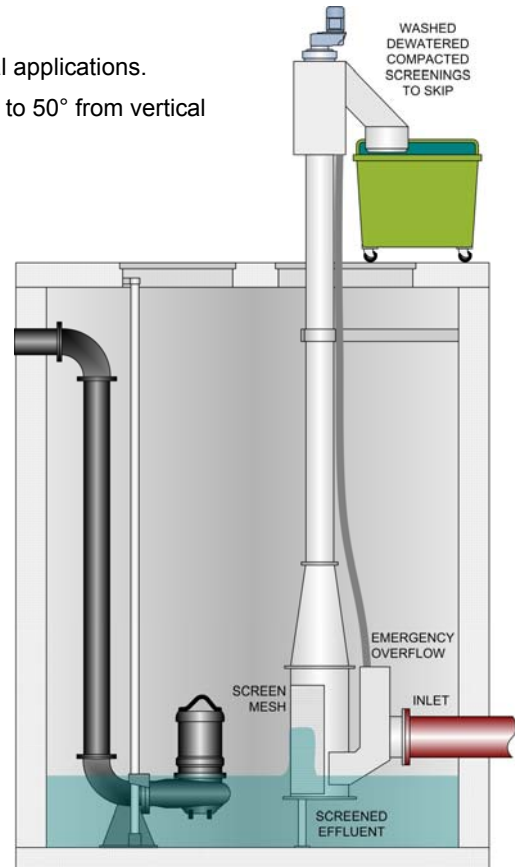
MID/V vertical screens can be supplied in variable lengths to suit individual applications. Vertical screens can also be designed for installation at inclined angles up to 50° from vertical

Application Correction Factors

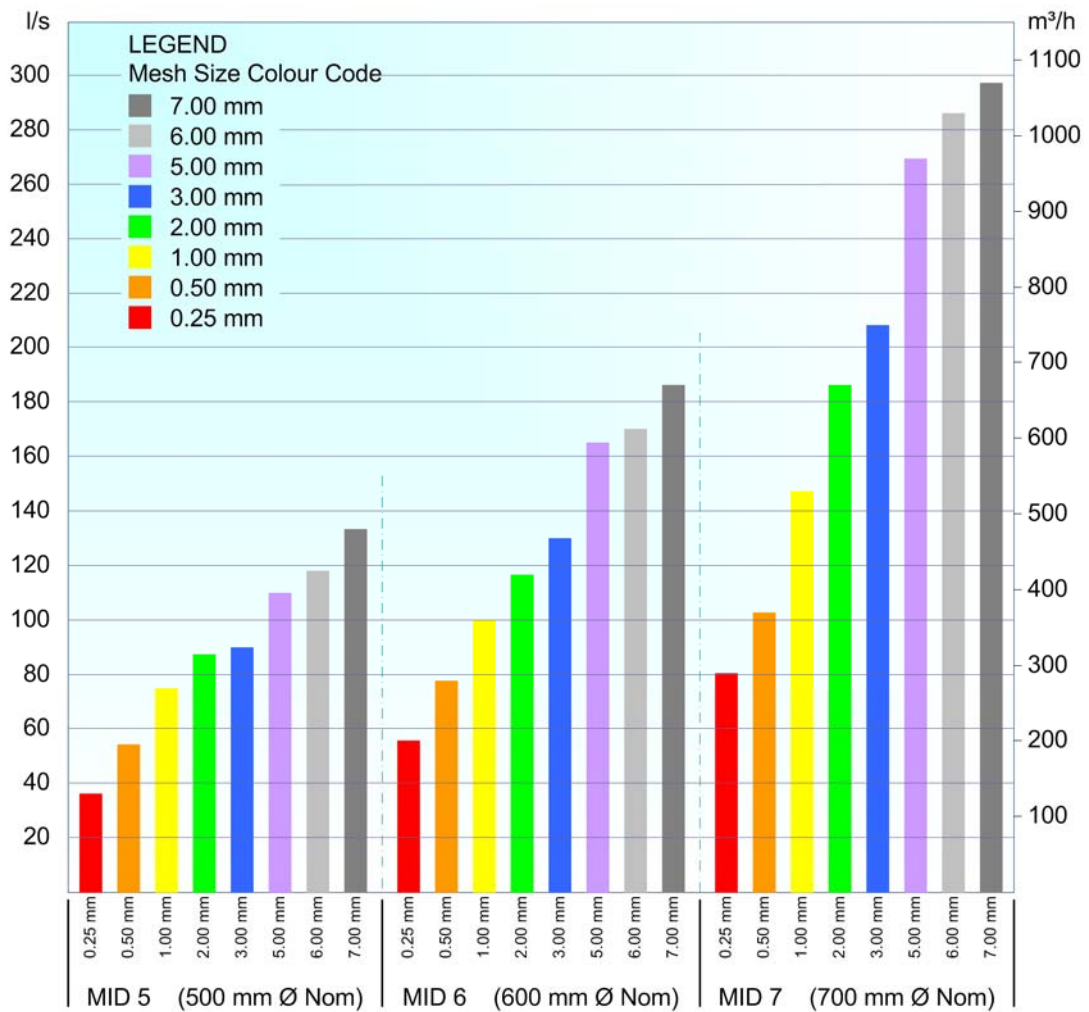
As a guide to application selection, the following factors should be applied to the incoming flow.

Effluent	Coefficient
Domestic or municipal sewage (≤ 500 mg/l TSS)	1
Storm Sewage Flows	1.3
Food & Beverage Industries	0.7
Abattoirs	0.5
Tannery & Textile Industries	0.6

Please note the Screen Charts and Application Correction Factors are intended to provide an estimate of requirements. Advice should be sought to ensure the screen will be appropriate for the application.



MID/V-Vertical Screen Chart (MID/V 5 – 7)



MID/V Vertical Screens – an Exceptional, Versatile and Compact Solution ...

MID/V vertical screens can be retrofitted into existing structures such as pump stations or manholes etc, and applied to confined space applications.

Specifications

Flow Capacities

Up to 300 l/s (1,070 m³/ h) depending upon effluent and solids contained within the flow

Fabrication

Stainless steel: 304 (BS EN 10088 1.4301)

Stainless steel: 316 (BS EN 10088 1.4401)

Spiral: Mild steel or Stainless steel, 304 or 316

Screen basket nominal diameter availability

200, 300, 400, 500, 600 & 700 mm diameter

Screen size availability

0.25, 0.5, 1, 2 mm in wedge wire

2, 3, 4, 5, 6, 7 & 10 mm perforated holes

The Benefits

- high quality and reliability at low costs
- quick and easy installation
- retrofit capability
- stainless steel fabrication
- reliable and automatic self cleaning operation
- eliminates pump clogging

Typical Applications

- Pump chambers
- Manholes, chambers and sumps
- Small sewage treatment works
- Municipal waste water treatment works
- Industrial effluent discharges
- Abattoirs, fish and other food processing plant
- Process liquor or fluid screening
- Sludge and scum screening

Other Screen Variants



M Range Screens; available for channel mount or supplied in stainless steel tank, ≤ 300 l/s



SP Range Screens for high solids content



TOP Range Screen, Grit & Grease Removal, ≤ 200 l/s



M Range Tanker reception screens with Bauer connection



GSR Range Sludge reception - Rapid tanker emptying



MINYSCREEN probably the smallest low cost screw screen available on today's market

Other products from M.A.IND include:

- ⇒ Sand & Grit Separation, Grit Classifiers
- ⇒ Screw Compactors
- ⇒ Screw Conveyors, Horizontal, Inclined or Vertical
- ⇒ SLUDGLESS Sludge Thickening & Dewatering

Contact M.A.IND for further information regarding other products or screen variants

We reserve the right to amend any detail without notice. Please ensure you have the latest information.
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Quality Certification
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