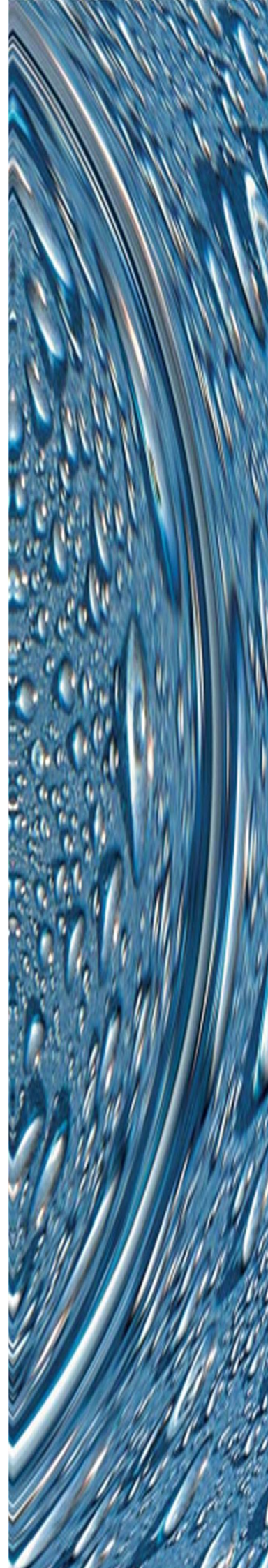


MI Range Screen Systems

MID Screen with Compactors and MI Screens

-  *Pre-treatment of Domestic & Municipal Waste Waters*
-  *Recovery & Solids Processing from Industrial Discharges*



M.A.IND

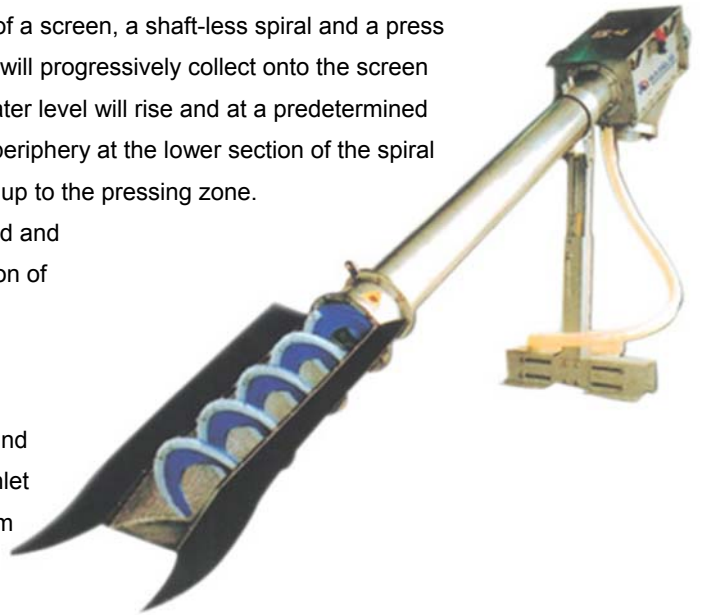
With over 4,000 installations around the world, M.A.IND has developed a good reputation with a philosophy of offering high quality at low cost. This has served to provide equipment to smaller industries or applications where previously it was considered unviable and offers a lower purchasing cost for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

MI-Range Screens - Operation

MI-range screens are integrated machines consisting of a screen, a shaft-less spiral and a press unit. During operation, solids within the incoming flow will progressively collect onto the screen mesh and cause it to gradually blind. The upstream water level will rise and at a predetermined level, the spiral will be activated. Brushes fixed to the periphery at the lower section of the spiral will then clean the screen mesh and convey the solids up to the pressing zone.

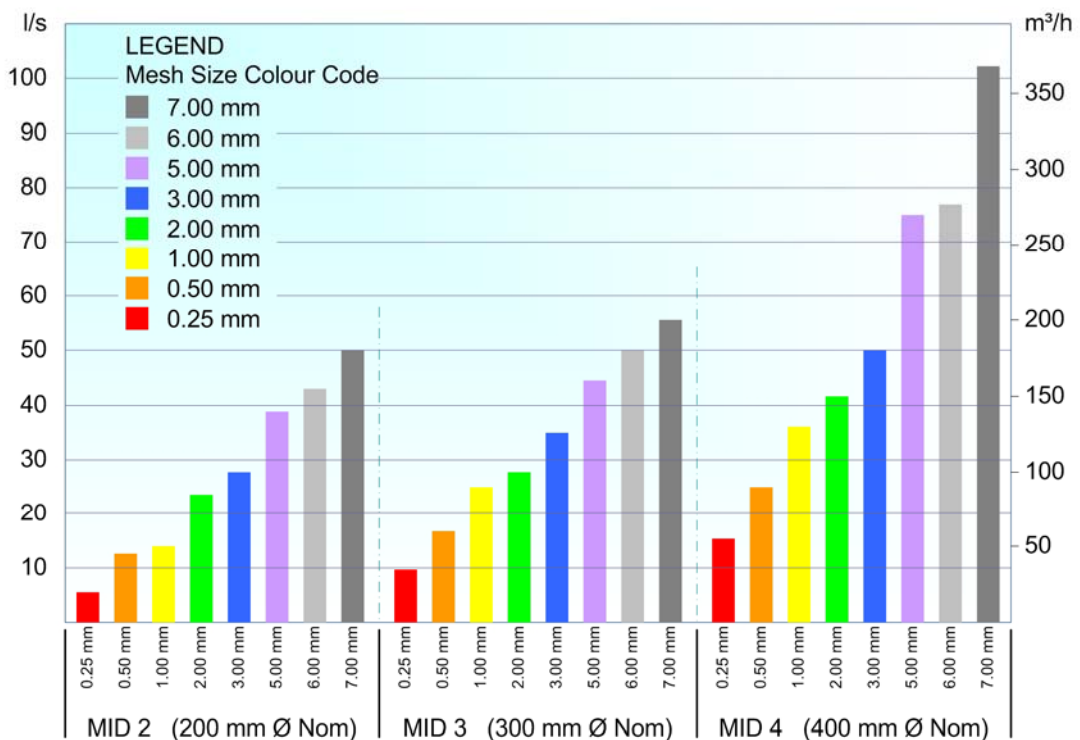
The solids or screenings are compacted and dewatered and depending upon the solid properties, a volume reduction of around 40% DS or greater can be achieved prior to discharging the screenings into a skip or wheelie bin.

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.



MI-range screens can be supplied either for direct installation into a channel or as a complete package inside a stainless-steel tank with or without the option of a bypass rake screen. Continuous bagging systems are available to receive screenings and abate odour, the screenings can then be sealed without any personal contact.

MI-Range Screen Chart (MID 2 – 4 and MI 2 – 4)

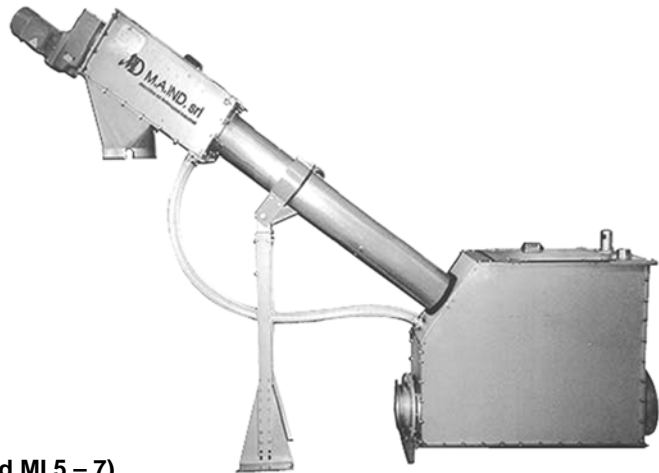


Application Correction Factors

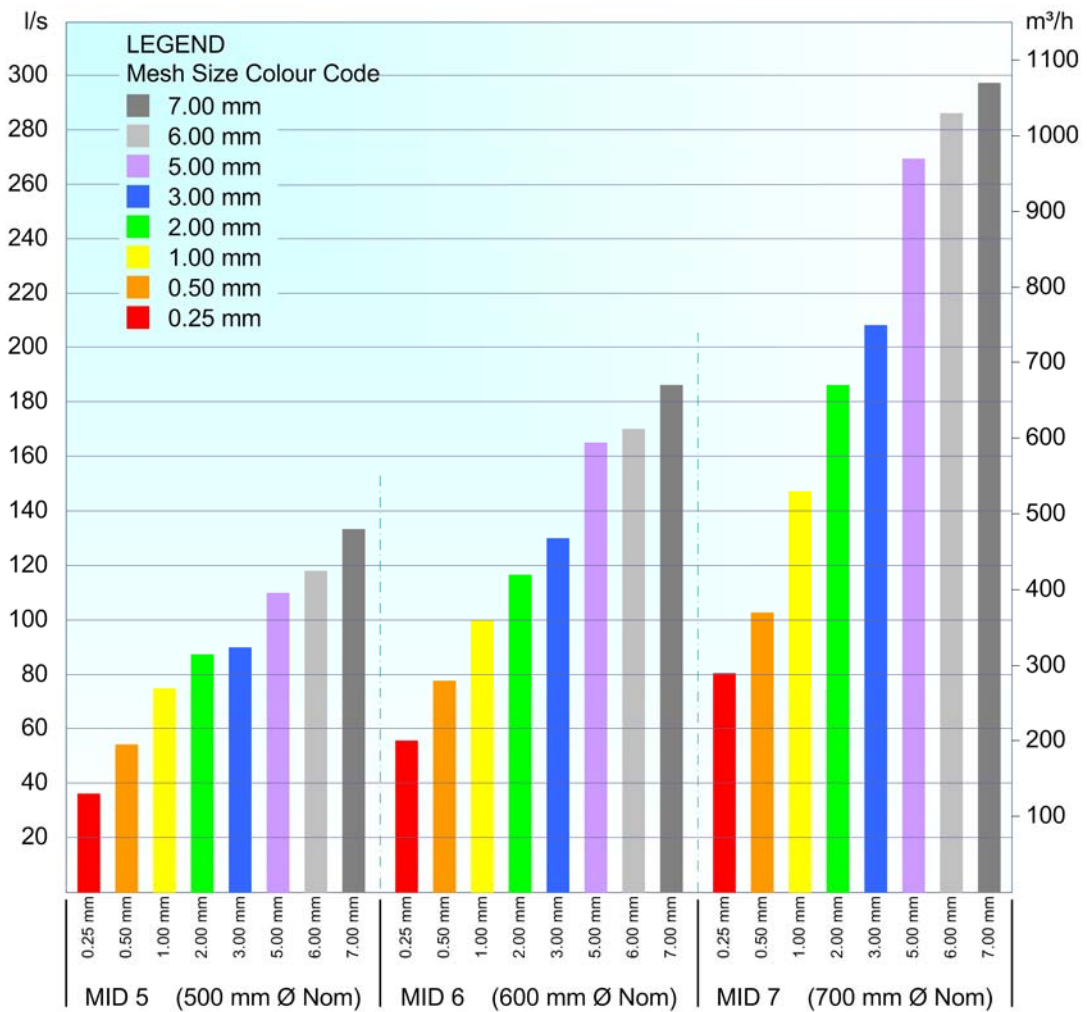
As a guide to application selection, the following factors should be applied to the incoming flow.

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.

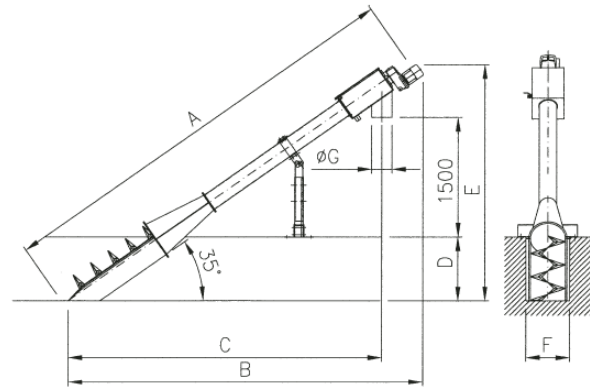


MI-Range Screen Chart (MID 5 – 7 and MI 5 – 7)



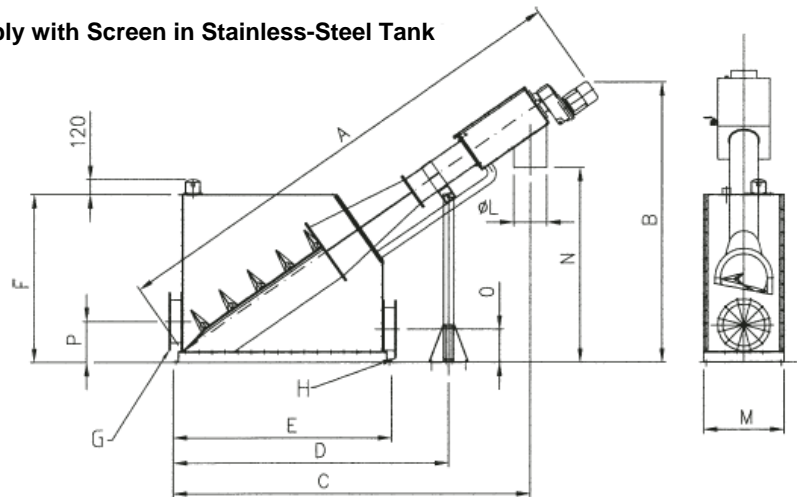
Screen Dimensions

Type MID Range - Channel Mounted



Model	MID 2	MID 3	MID 4	MID 5	MID 6	MID 7
A	5,355	5,355	5,355	5,355	5,760	6,100
B	4,500	4,500	4,500	4,500	4,890	5,160
C	3,963	3,965	3,965	3,965	4,220	4,480
D	800	800	800	800	800	1,000
E	2,990	3,000	3,000	3,000	3,230	3,430
F	350	350	450	550	650	850
G	265	273	273	273	406	406
kg	400	430	470	520	610	660
kW	0,55	0,55	0,55	0,55	1,1	1,1

Type MID/T Range – Package Supply with Screen in Stainless-Steel Tank

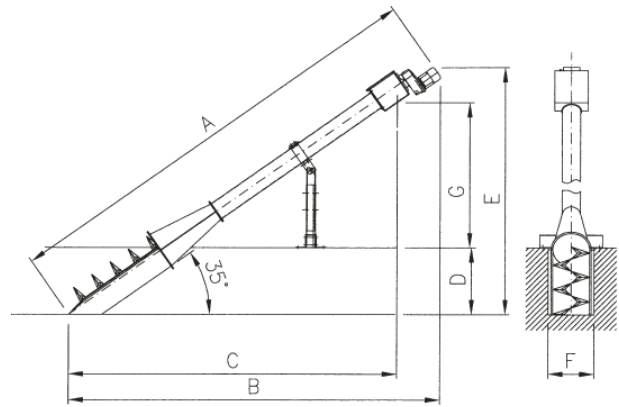


Model	MID 2/T	MID 3/T	MID 4/T	MID 5/T	MID 6/T	MID 7/T
A	3785	3790	3790	3790	4200	5070
B	2170	2200	2200	2200	2450	2950
C	2750	2750	2750	2750	2980	3700
D	1990	1990	2185	2110	2320	3050
E	1260	1300	1605	1675	1755	2080
F	1000	990	1200	1290	1320	1630
G	DN 200	DN 200	DN 250	DN 300	DN 400	DN 500
H	DN 200	DN 200	DN 250	DN 300	DN 400	DN 500
L	273	273	273	273	406	406
M	406	406	516	616	716	916
N	1480	1500	1500	1500	1560	2070
O	205	205	235	255	310	370
P	250	255	285	315	380	440
kg	550	580	630	700	800	950
kW	0,55	0,55	0,55	0,55	1,1	1,1

Screen Dimensions

Type MI Range

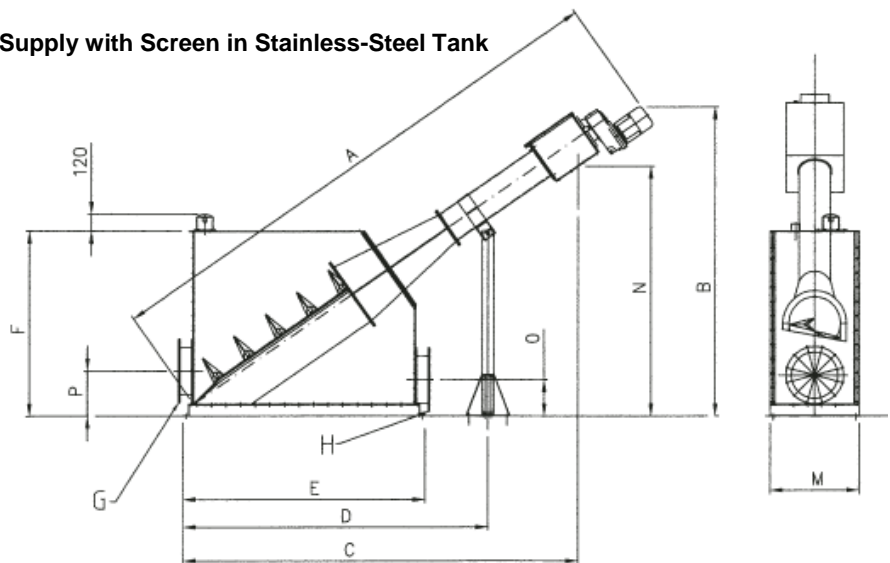
The MI Range is suited to applications where compaction of solids or screenings is not required such as certain process or material recovery operations.



Type MI Range - Channel Mounted

Model	MI 2	MI 3	MI 4	MI 5	MI 6	MI 7
A	5365	5365	5365	5365	5760	6100
B	4500	4500	4500	4500	4890	5160
C	3950	3950	3950	3950	4250	4500
D	800	800	800	800	800	1000
E	3000	3000	3000	3000	3230	3430
F	350	350	450	550	650	850
G	1800	1800	1800	1800	1890	1890
kg	350	400	440	490	560	610
kW	0,55	0,55	0,55	0,55	1,1	1,1

Type MI/T Range – Package Supply with Screen in Stainless-Steel Tank



Model	MI 2/T	MI 3/T	MI 4/T	MI 5/T	MI 6/T	MI 7/T
A	3690	3790	3790	3790	4200	5070
B	2130	2200	2200	2200	2450	2950
C	2700	2780	2780	2780	3000	3715
D	1990	1990	2185	2110	2320	3050
E	1300	1300	1605	1675	1755	2080
F	990	990	1200	1290	1320	1630
G	DN 150	DN 200	DN 250	DN 300	DN 400	DN 500
H	DN 150	DN 200	DN 250	DN 300	DN 400	DN 500
L	351	406	516	616	716	916
M	1750	1770	1770	1770	1850	2370
N	175	205	235	255	310	370
O	220	255	285	315	380	440
kg	500	550	600	670	750	900
kW	0,55	0,55	0,55	0,55	1,1	1,1

MI-Range Screens – *the cost effective solution ...*

MI-Range screens are extremely cost effective – lower outlay and operational costs embody the M.A.IND philosophy of “high quality at low cost” without any compromise to performance, reliability or asset life.

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

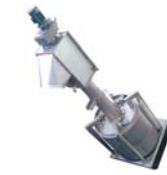
The Benefits

- high quality and reliability at low costs
- quick and easy installation
- retrofit capability into existing channels
- stainless steel fabrication
- reduced disposal costs with screenings press
- reliable and automatic self cleaning operation

Typical Applications

- 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
- Commercial outlets
- Stream, brook or pond screening

Other Screen Variants



EMD Drum Screen Compactor
channel mount or with stainless
steel tank, ≤ 4,000 l/s



SP Range Screens for high
solids content



MID/V Vertical screens for
pump station etc, ≤ 300 l/s



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.
Issue MI-Range 1008 (en)

Head Office:
M.A.IND srl
Via Calcinaro, 2131
470023 Cesena (FC)
Tel: +39 0547 385043
Fax: ++39 0547 638182

Factory:
M.A.IND srl
Via Pitagora 30
41010 Limidi di Soliera (Mo)
Tel: +39 059 525720
Fax: ++39 059 525443

Email: maind@maindsrl.it
Web: www.maindsrl.it



UNI EN ISO 9001:2000
Quality Certification
No: 50 100 7256