

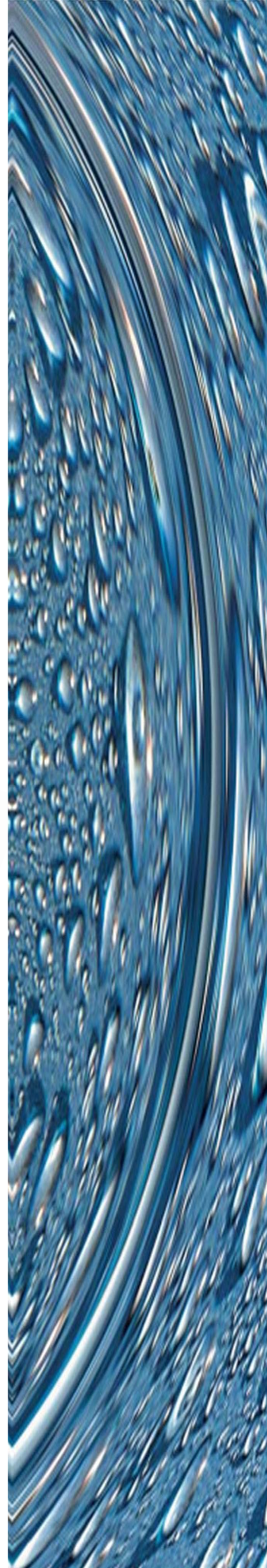


## MD Screw Compactors

-  *Waste Water Treatment Works*
-  *Recovery & Solids Processing from Industrial Discharges*



Cost-effective Compaction of Screenings  
and various Process or Waste Materials



## **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.

### **MD screw compactors**

MD screw compactors offer a simple, cost-effective solution for the dewatering, compaction, and reduction of screenings besides various other process or waste materials. They can be applied to numerous industrial or commercial applications including paper mills, abattoirs, food production, refineries, etc, for either recovery or removal purposes, or to waste flows to reduce separated screened solids.

Single units can be supplied over 5 metres long facilitating screw conveyor transfer with final compaction. Increased lengths can be supplemented with M.A.IND screw conveyors allowing extended transfer capabilities. This could be over undulated areas and include vertical elevation if necessary.

### **Operation**

MD screw compactors consist of a shaft-less spiral screw conveyor inside an inclined duct with bolted removable covers. Screenings enter into a hopper where they are conveyed to the compaction and dewatering section before being disposed of into a container. Screening volume reductions of 40% or greater can be attained. Liquids pressed from the screenings return to the screw compactor inlet base then discharge either to a drain or are returned for further treatment.

A discharge cowling connecting to a continuous bagging system can be supplied to provide a totally enclosed screw compacting system. This will enhance the odour abatement qualities of the system and the screenings can be sealed without any personal contact.

M.A.IND MD screw compactors are manufactured with the same philosophy applied to all M.A.IND equipment comprising of bolted sections to grant far superior inspection and maintenance access which in turn will increase longevity and overall asset life.

### **Advantages**

- ▣ Enhanced odour abatement with continuous bagging
- ▣ Improved Health & Safety with continuous bagging
- ▣ Easy operation and maintenance
- ▣ High reliability and long asset life
- ▣ Non-clogging even with fibrous materials
- ▣ Fully enclosed
- ▣ Low noise
- ▣ Low energy
- ▣ No internal bearings
- ▣ Heavy-duty spiral



### Availability

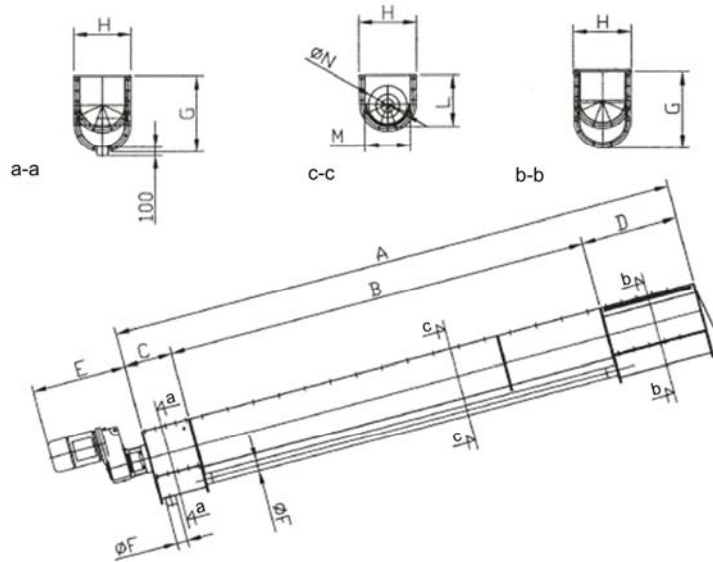
MD screw compactors are available in four models.

Type	Inlet Solids (m <sup>3</sup> /h)
MN 20	2
MN 30	5
MN 40	8



### MN Grit & Sand Separator Dimensions

Model	MD 20	MD 30	MD 40
A	2900	4120	5400
B	2000	3000	4000
C	400	400	460
D	500	720	940
E	530	600	720
F	60	60	101
G	400	560	730
H	330	430	550
L	255	365	488
M	230	330	430
N	185	280	360
kW	1.5	3.0	5.5



Supplementary products include:

Screw Conveyors



Vertical Screw Conveyors



Pivoting Screw Conveyors



Shaft-less or shaft screw versions available. Motor connects direct to spiral – no internal bearings

## MD screw compactors – a simple, cost-effective solution for compacting screenings ...

MD screw compactors can be applied to industrial processing, paper mills, abattoirs, food processing, refineries, etc, for either recovery or removal purposes, or to waste flows for reducing separated screened solids.

### Specifications

#### Capacities

Up to 8 m<sup>3</sup>/h

#### 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

#### Screenings volume reduction

≥ 40%

#### The Benefits

- high quality and reliability at low costs
- simple and robust
- quick and easy installation
- retrofit capability
- stainless steel fabrication
- reliable and automatic self cleaning operation
- protection of downstream plant and drains
- very low maintenance

#### Typical Applications

- Small sewage treatment works
- Municipal waste water treatment works
- Industrial effluent discharges
- Paper mills, abattoirs, food processing
- Chemical industry, refineries
- Recovery from processing plant

#### Other products from M.A.IND include:

- ⇒ Sand & Grit Separation, Grit Classifiers
- ⇒ 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 Screw Compactor MD 0408 (en)

### M.A.IND Screening Systems



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



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



SP Range Screens for high solids content



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

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