

# Eflo SCREEN Mechanical Screens

## Rake, Step and Drum Screens

### General Description

#### Rake Screen

Drop shaped bar profile to minimise the head loss through the screen.

The use of static guides in the lower part of the screen avoids the need for rotating components below the water level

#### Step Screen

The screen surface is made up of a series of alternating, moving and fixed step shaped plates.

The rotating nature of the screens successively lifts the screenings up the steps to the discharge point.

#### Drum Screen

These are used as preliminary screens in waste water treatment plants to remove coarse material.

Integration into pipelines is straight forward.

### Eflo - About Us

**Eflo International Ltd, UK.**  
OEM technologies for advanced wastewater treatment systems and water re-use.

**Eflo** has designed & installed treatment plants in Europe, the Middle East, Africa, Caribbean the Indian Ocean islands over a period of more than 40 years.

As well as the **EfloSCREEN** range, **Eflo** offers other innovative waste water treatment products and water recycling systems, including industrial waste water processes.

**Eflo** is part of the Concorde Corodex Group of companies and through this group can offer bespoke, potable, water treatment plants including River Water Treatment and Seawater Reverse Osmosis. Water treatment plants for small communities to cities.



#### Rake Screen

Equipment	Data
Bar opening, mm	5 - 70
Inclination	80 deg
Chain pitch, mm	100
Motor	380/3/50
Power kW	1.5
RPM	1500
Screen RPM	6

#### Step Screen

Equipment	Data
Bar opening, mm	5
Inclination	48 -55 deg
Motor	380/3/50
Power kW	1.1 - 1.5
RPM	1500
Screen RPM	6

#### Drum Screen

Equipment	Data
Bar opening, mm	1 - 8
Flange dia mm	100- 200
Flow m <sup>3</sup> /hr	50 - 100
Motor	380/3/50
Power kW	0.18 - 0.55
RPM	1500
Screen RPM	6

#### EFLO Products :

- EfloCT** Extended Aeration
- EfloSAF** Submerged Aerated Filter
- EfloSBR** Sequential Batch Reactor Filandraw
- EfloMBR** Membrane Bio-Reactor
- EfloSNAF** Biological Nutrient Removal in TSE
- EfloDAF** Dissolved Air Floatation
- EfloSEP** Oil Water Separator
- EfloGREY** Grey Water Re cycling

## Eflo SCREEN



### Gully Hook Screen

Self cleaning, plastic hook type with 3 mm holes.

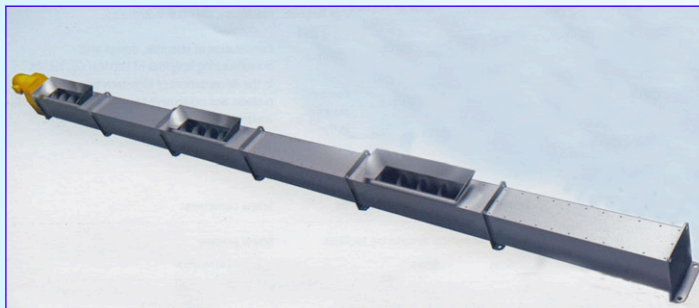
High material strength, no under water rotating parts and stainless steel construction.

Screen speed is 1.5 m/min and the screen is capable of lifting 1.5 tonnes of waste per hour.

Coarse screening is undertaken on the front and finer screening occurs at the rear, delivering two stage treatment in one unit.

0.75 kW motor gearbox unit.

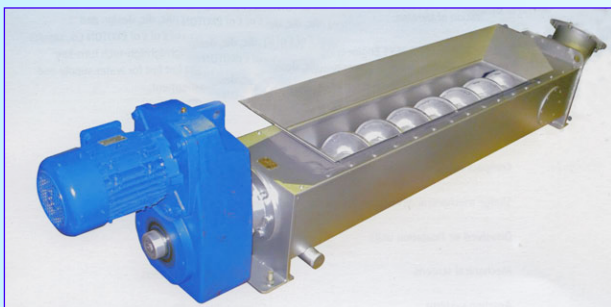
## Screw Conveyors and Screw Dewatering Press



For transportation of sludge and debris from screening works.  
Both horizontal and inclined delivery.

Maximum conveyor length is 20 m.

Equipment	Data
Screw Dia, mm	230 & 280
Screw Pitch mm	180 & 230
Max Screw L m	20
Capacity 50% fill m <sup>3</sup> per hr	4
Motor Power kW	1.1 - 7.5
Dimensions mm	450x915 - 20665



Equipment	Data
Screw Dia, mm	200
Capacity m <sup>3</sup> per hr	1.0
Motor Power kW	3.0
RPM	14

Screw dewatering press for the compaction and transportation of debris from screening work to a conveyor or skip.

Dewatering presses achieve 70 - 75% reduction of the waste volume.

### UK OFFICE :

The Colin Sanders Innovation Centre  
Mewburn Road, Banbury, Oxfordshire,  
OX16 9PA, UK  
Tel + 44 (0) 1295 817623  
Fax + 44 (0) 872 115 6890  
Email: info@eflo.com

### Middle East Offices :

Dubai	Tel: +971 (0) 4 3479895	Fax: +971 (0) 4 3479896
Abu Dhabi	Tel: +971 (0) 2 5503331	Fax: +971 (0) 2 5503332
Sudan	Tel: +249 (0)183 479030	Fax: +249 (0)183 479031
Oman	Tel: +968 (0) 24497203	Fax: +968 (0) 24495293
Qatar	Tel: +974 (0) 4694340	Fax: +974 (0) 4694467
Jordan	Tel: +962 (0) 655422968	Fax: +962 (0) 65542967