

FINE DRUM SCREEN

INECO™

Equipment for Pre-Treatment Mechanical Fine Screening



For our nature and our future

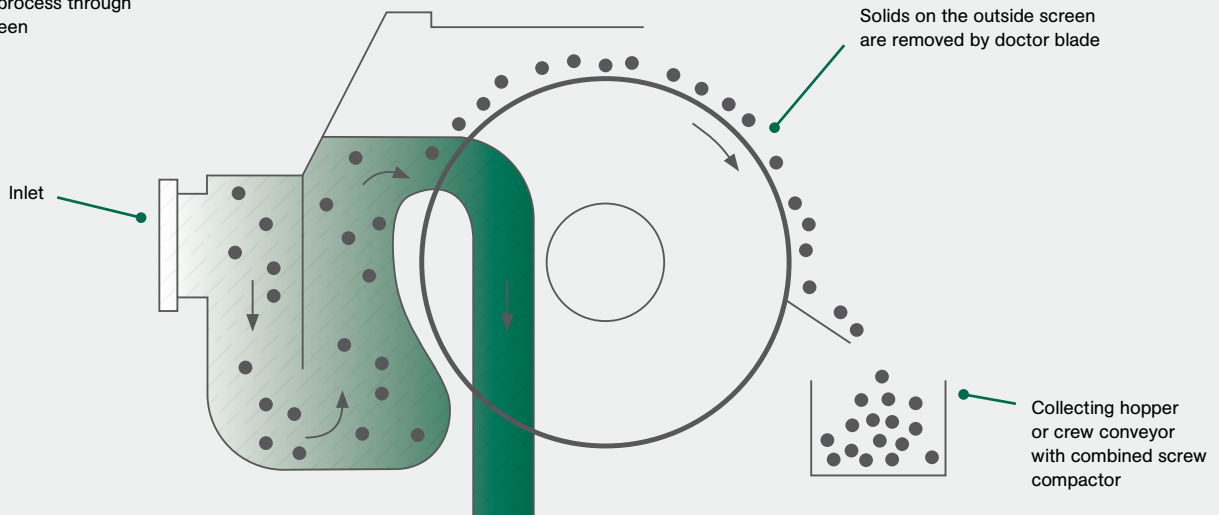
INECO™ Fine Drum Screen: Description

In General

The INECO™ product portfolio offers come with a wide range of sand classifiers, fine drum screens, screw screens and belt screens for small to large applications of hydraulic flow and load. Separating solids and coarse material from process and drainage water has always been a serious problem and often difficult to solve for many industrial sectors and domestic wastewater treatment plants. This

problem has been faced by using various types of systems, often with disappointing results. Cylindrical separators cleaned by mechanical or spray systems, vibrating sieves, static screens and various other devices have not prove to be able to solve the problems of solid separation in a satisfactory manner.

INECO™ Flow process through Fine Drum Screen



How does it work?

The influent to be screened is flowing into the overflow protector weir, which is specially designed to slow down the flow and to distribute it over length of the drum. The influent then overflows a sealed weir onto the rotating drum screen (5 –10 rpm). For safety reason on optional overflow return pipe can be installed against flooding in case of unwanted high flow peaks. The solids are retained on the outside screen surface and removed by the doctor blade. The screen effluent passes again through the drum bottom portion from the insides. The large volume of the screened water, which reaches a high falling

speed during the free fall through the drum, carries on an efficacious back-washing of the screen openings. Depending on raw water composition, a self cleaning nozzle set is recommended, to clean periodically the drum from the in side with high pressure water. The portion of the drum screen being fed is always perfectly clean. Moreover, the back wash operation avoids the mucilage formations inside the cylindrical screen. A screw compactor for dewatering of coarse material with an endless storage bag is part of the INECO™ screen. The stand alone unit is equipped with inlet and outlet flanges.



Fine Drum Screen covered, with screw compactor and bagging unit



TE 9020 Fine Drum Screen with screw compactor

INECO™ Fine Drum Screen: Advanatages



1



2

Because the INECO™ Fine Drum Screen is self-cleaning, it will consistently produce dry weight solids. Continuous dry weight solid means easy-handeling, low incineration costs, reducing rendering costs.

(1) TE 4050 with screw com-pacttor and bag packing unit
(2) Self cleaning nozzle bar protecting the drum against clogging

- Standalone unit made of stainless steel with screw compactor
- Low initial investment, installation and operation cost
- High capacity; requires 1/3 to 1/5 of the floor space of other types of screens
- Long life span
- No blinding or clogging
- Screening space from 0,25 mm – 2,5 mm
- High dry weight solids
- Screw compactor and screenings washing unit
- Self cleaning spray nozzle bar
- Access cover for odour and safety

INECO™ Fine Drum Screen: Applications

Rendering, snack food, canning, textile, fibre recovery, stock yard, storm water overflow, laundry, tanning, refinery, pulp & paper, food

industry, grit removal, scum dewatering, sludge screening, fruit and vegetable processing, poultry processing, meat packing and more



INECO™ TE 6010 with screw compactor, completely enclosed



Covered Fine Drum Screen TE 6005C, screw conveyor and screw compactor

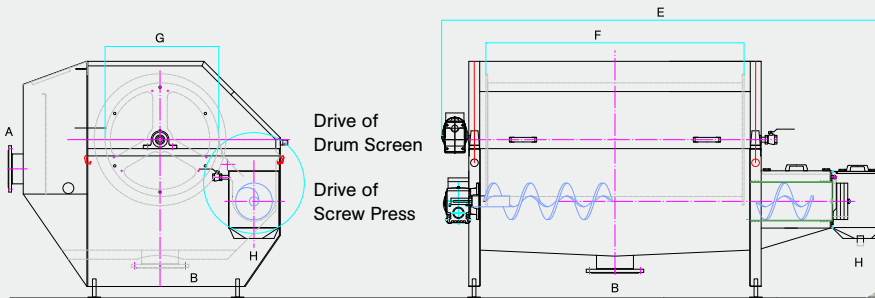
INECO™ Fine Drum Screen: Basic Data

FINE DRUM SCREEN									
Model	Drum Ø (mm)	Drum length (mm)	Space* 0,25 mm	Space* 0,50 mm	Space* 0,75 mm	Space* 1,0 mm	Space* 1,50 mm	Space* 2,00 mm	Space* 2,50 mm
TE 4004	460	400	8	13	19	24	30	33	34
TE 4006	460	600	12	20	28	36	45	49	51
TE 4007	460	700	14	24	33	42	52	57	59
TE 6005	625	500	18	31	44	58	76	85	90
TE 6008	625	800	28	50	70	92	121	136	144
TE 6011	625	1100	40	68	96	127	167	188	198
TE 6014	625	1400	50	86	124	163	213	238	252
TE 6017	625	1700	61	105	149	197	258	289	306
TE 6020	625	2000	72	123	177	233	304	340	361
TE 9018	914	1800	97	169	247	330	436	494	530
TE 9020	914	2000	108	188	275	366	485	549	588

* m³/h with 200 ppm of dry solid content

TE ENGINEERING specializes in equipment of the latest technology for water and wastewater treatment. Domestic or industrial use – we are everywhere at home.

We operate all over the world, to be at your side with local support.



INECO™
FINE DRUM SCREEN

- A Inlet Flange
- B Outlet Flange
- C Jet – DN15 Ball Valve
- D Defecation – DN50 Ball Valve
- E Total Length
- F Drum Screen Length
- G Drum Screen Diameter
- H Dewatered Screenings Outlet



TE ENGINEERING GmbH
Wilhelm-Hale-Strasse 46b
80639 Munich, Germany
T +49-(0)89-943 828-0
F +49-(0)89-943 828-50
info@te-group.net

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