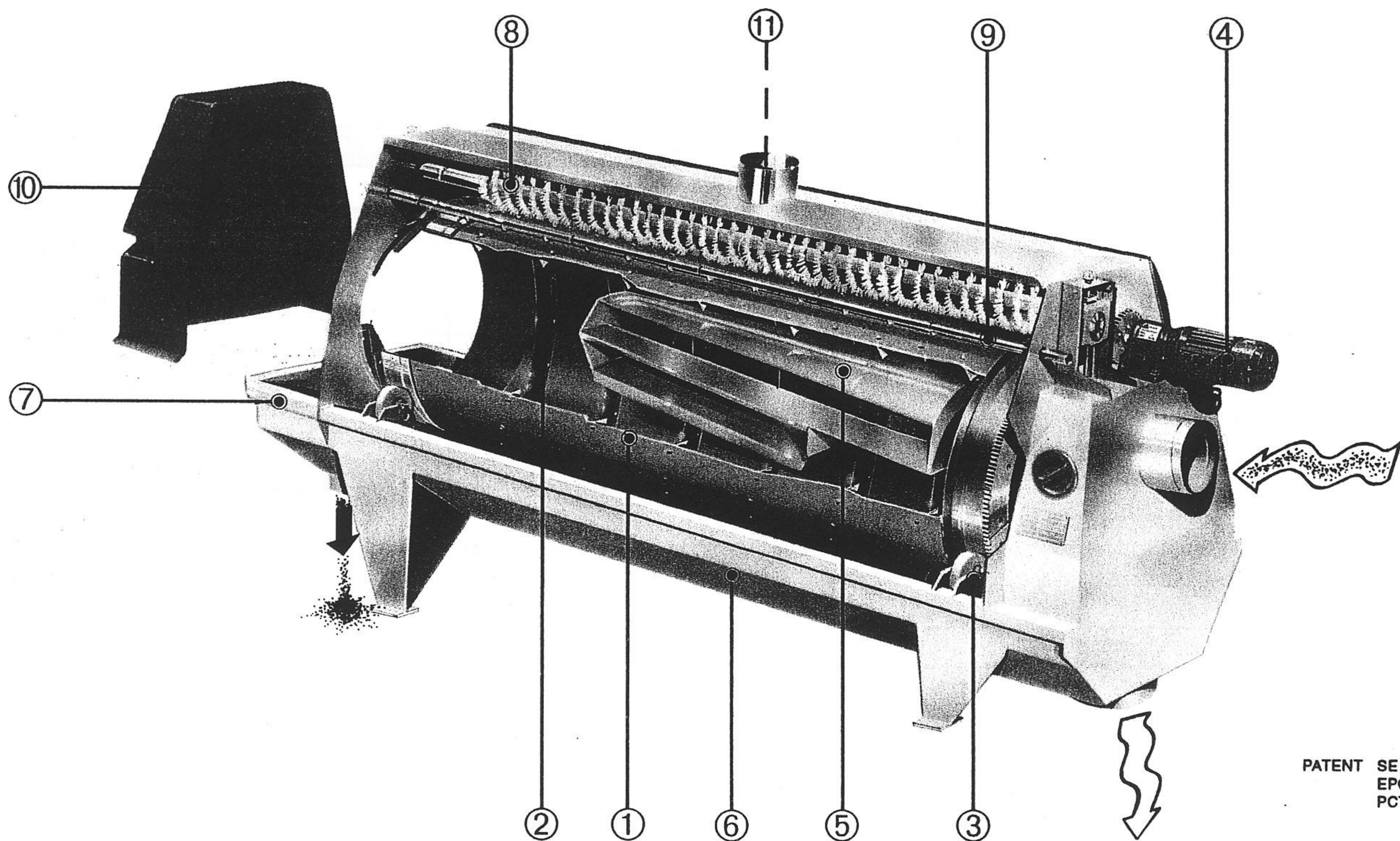


ROTO-SIEVE® AB

PRODUCT DATA: DRUM SCREENS



PATENT SE NO.8700853.8
EPC NO.88902263.8
PCT/SE88/00091

THE UNIQUE PRINCIPLE

The ROTO-SIEVE Drum screen consists of a rotating, perforated, inclined drum (1), internally mounted continuous transport screw (2) which transports the separated solids out of the drum. The drum rotates on trunnion wheels (3) and is operated by a cog gear motor (4). The incoming liquid is fed into the drum by means of an inside, inlet pipe (5) which distributes the water over a large area of the drum's inside. The water passes through the holes of the drum and falls into the water collection trough (6) underneath the drum. Separated solids are moved to the elevated end of the drum for optimum dewatering and freely discharged through the discharge chute (7). A counter rotating roller brush (8) provides for continuous cleaning of the apertures during drum operation and a spray header with spray nozzles (9) provides for intermittent spray cleaning. The drum is completely encased with detachable splash guards (10) and may be equipped with a ventilation exhaust connection (11) for control of odours, fumes and volatile organic compounds. The larger ROTO-SIEVE drum screens are available with an automatic overflow system. Standard hole perforations are 0.75-1.0-1.5-2.0-2.5 mm. Smallest hole perforation 0.6 mm. Larger hole perforations than 2.5 mm on request.

DESIGN FEATURES

ROTO-SIEVE drum screens come in five sizes for different flows, thus ensuring that there will always be one or more units to fit the bill.

MODEL RS 4013-90: The smallest model and only available without overflow system. Direct drive with cog gear motor and without trunnion wheels. Ventilation exhaust connection is standard.

MODEL RS 4013-10: Similar to model RS 90 but with a larger drum, a flexible rubber coupling between the motor shaft and the drum end with two trunnion wheels.

MODEL RS 4013-40: Equipped with two detachable splash guards in GRP. With a flexible rubber coupling between the motor shaft and the drum end with two trunnion wheels. Ventilation exhaust connection is optional.

MODEL RS 4024-40: The same design as above but with overflow system and with a conductive electrode for overflow detection and signal.

MODEL RS 4013-51 and RS 3013-51: The model shown in the above cross-sectional view - is equipped with three detachable splash guards in GRP, with four trunnion wheels and one axial support wheel and with pinion drive for drum rotation. Without overflow system. Ventilation exhaust connection is optional.

MODEL RS 4024-51 and RS 3024-51: The same design as above but with overflow system and with a microswitch for overflow detection and signal.

MODEL RS 4024-60 and RS 3024-60: Equipped with six detachable inspection covers in GRP. Drive system with a shaft-mounted, geared motor for direct drive of the driving shaft with two driving wheels. Smallest hole perforation is 1.5 mm. Ventilation exhaust connection is standard.