

STEP SCREEN® Flexible SSF



The suitable machine for any application:

- for high separation efficiencies
- for any flow rate
- easy and reliable screenings transport

➤➤ STEP SCREEN® Flexible SSF:

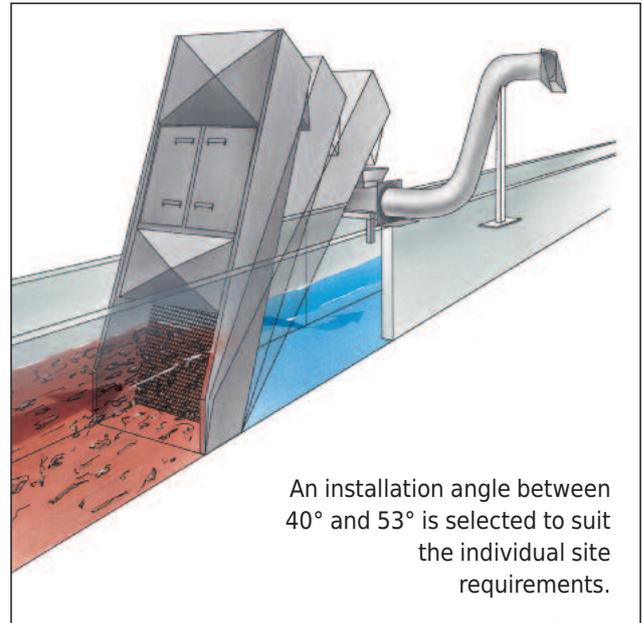
The variable installation angle ensures

- optimal adjustment to individual hydraulic conditions, such as limited upstream levels due to preceding pumping stations
- operating reliability due to tailor-made layout

The STEP SCREEN® System is widely accepted and successful due to its function and easy-to-follow operation principle as well as the simple cleaning method without any aids (self-cleaning effect according to the counter-current principle). It is furthermore easy to maintain and able to handle extremely big screenings volumes while it offers also a high operational reliability.

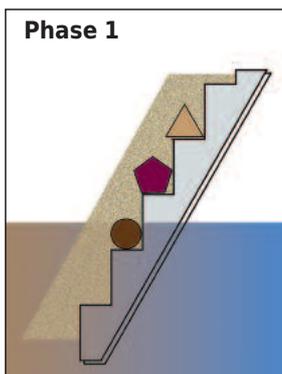
The motor linkage drive has been developed from the well-proven link system. To the benefit of our customers we intentionally avoided difficult-to-maintain chain drives. With the new linkage type we are able to master the occurring bending moments on the lamellae, especially with high water levels.

Contacting us means speaking with a partner who has more than 30 years experience with screens, their layout, construction, manufacture, operation and after-sales service and is with thousands of references worldwide the unrivalled market leader in mechanical preliminary wastewater treatment.

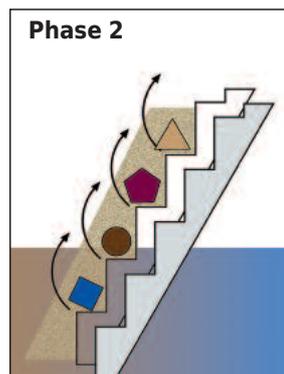


An installation angle between 40° and 53° is selected to suit the individual site requirements.

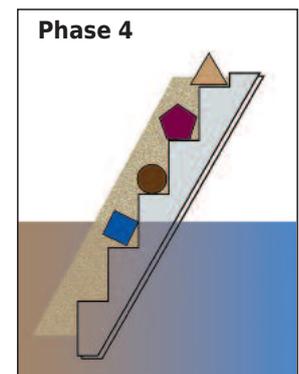
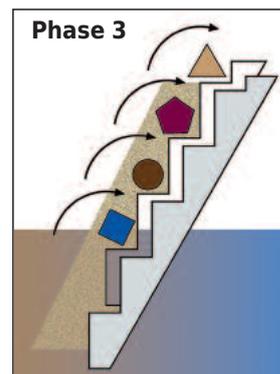
➤➤ Function principle:



Phase 1
The arriving screenings collect on the steps and form a carpet.



Phase 2
The complete screenings carpet is lifted and transported by rotation of the moveable lamella unit.



Phase 4
The screenings carpet is laid down on the next step.

➤➤ Advantages of the screenings carpet:

The screenings carpet is a structure, the pores of which retain much smaller particles than the actual slot width would allow.

This additional filtration effect significantly improves separation efficiency.

➤ HUBER STEP SCREEN® SSF installation examples



STEP SCREEN® Flexible SSF: length 3500 mm, width 1826 mm, 6 mm slot width, 50° installation angle. High capacity as the flow passes the screen surface only once.



STEP SCREEN® Flexible with HUBER Wash Press for optimal separation and dewatering results. Acid treated in a pickling bath for corrosion protection.



STEP SCREEN® Flexible combined with HUBER Wash Press type SL for intensive screenings washing. Totally enclosed, odour-free design.



STEP SCREEN® Flexible: very high operational stability and reliable operation without impairment by grit, gravel and stones due to the special bottom step design for lifting of screenings at bottom level.



STEP SCREEN® Flexible application in Russia: pivotable in the channel without having to remove the downstream HUBER Wash Press and HUBER Screw Conveyor.



STEP SCREEN® Flexible: high separation efficiency due to the narrow slot width and the produced screenings carpet, self-cleaning effect due to a moveable lamella unit.

►► Benefits

Functional principle:

- Lifting of screenings at bottom level
- Gentle and complete screenings transport due to the counter-current principle

Retrofitting or new plants:

- Optimally adjustable to individual hydraulic conditions due to the flexible installation angle

Flow rate:

- High capacity; the flow passes the screen surface only once

Separation efficiency:

- Very high separation efficiency due to the narrow slot width and the produced screenings carpet

Cleaning:

- Self-cleaning effect due to moveable lamellae (no spray water, no brushes)

Operational stability:

- Reduced susceptibility to grit, gravel and stones due to the bottom step washing system

Pivoted screen:

- Without the need to remove the subsequent wash press or transport unit

Protection against corrosion:

- Completely manufactured from stainless steel and acid-treated in a pickling bath

Experience:

- Unrivalled for more than 30 years

►► Technical data

Discharge height	up to 3.5 m
Channel width:	500 – 2000 mm
Water level:	up to 2.3 m impoundage
Standard slot width:	3 and 6 mm

►► Installation examples



Fully enclosed, odour-free STEP SCREEN® Flexible SSF



Two STEP SCREEN® Flexible SSF units installed in parallel channels