



SPIRAC[®]

First in spiral
conveying technology

SPIRAC screening & classifying equipment

SPIRAC SCREENING &
CLASSIFYING EQUIPMENT

CS SCREEN

CC SCREEN

ST SCREEN

SA CLASSIFIER

CT SCREEN & CLASSIFIER



SPIRAC is a world leader in providing specialised conveying equipment to a diverse range of industries. Unrivalled technical expertise and a strong commitment to manufacturing quality have enabled SPIRAC to stay at the forefront of shaftless conveying technology for more than 30 years.

SPIRAC's screening and classifying equipment brings together their unique shaftless screw technology and superior screen design to create systemised solutions that are streamlined and robust.



SPIRAC **CS** Screen

The SPIRAC CS Screen combines screening, conveying, dewatering and removal of solids from effluent and process streams in one compact machine.

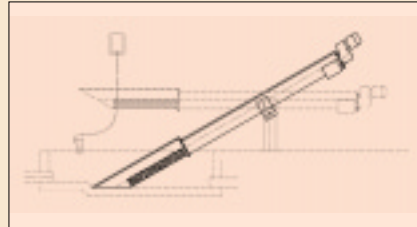
The unit is robust, easy to install and, with only one moving part, virtually maintenance-free. Slow speed combined with automatic intermittent operation ensures a reliable and efficient system.

Typical applications

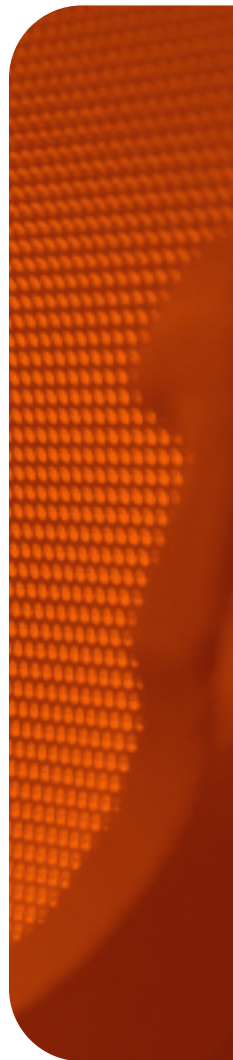
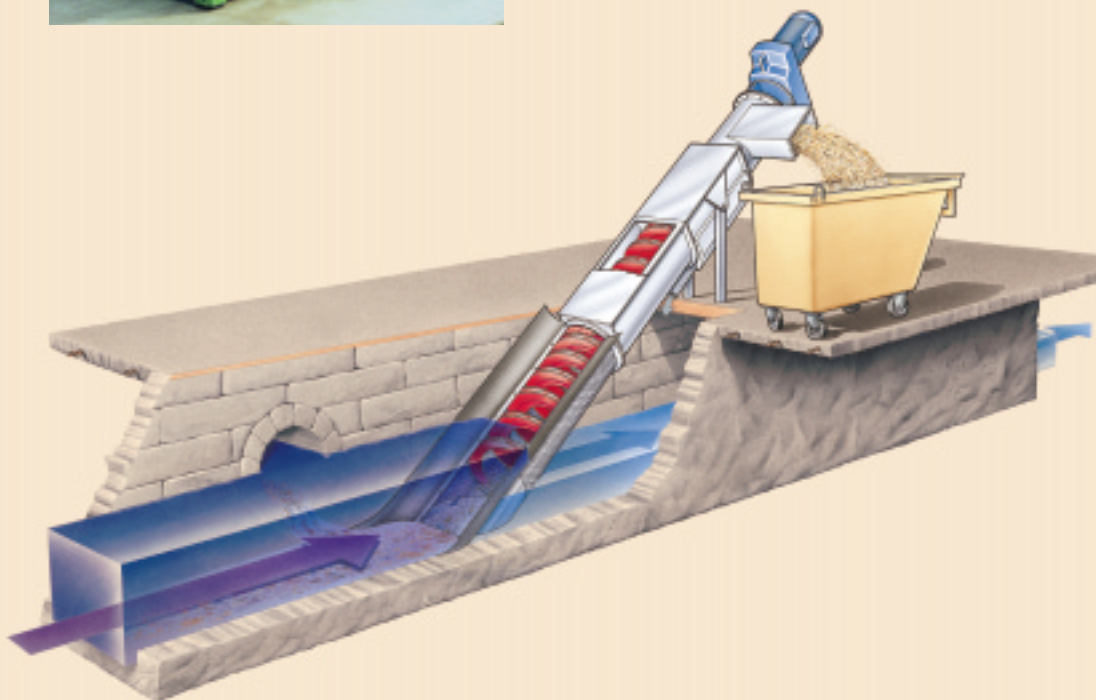
- Inlet works in sewage treatment plants
- Pulp and paper industry
- Wine industry for extraction of seeds and skins
- Food industry



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- **SHAFTLESS SPIRAL**
 - **PIVOTING SUPPORT FOR EASY INSPECTION OF SPIRAL**



- **LOW POWER**
 - **LOW SPEED**
 - **NO INTERMEDIATE OR END BEARINGS**
 - **VIRTUALLY MAINTENANCE FREE**
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SPIRAC **CC** Screen

The SPIRAC CC Screen is designed as a stand-alone unit for pump-fed applications. Ideally suited as a tanker reception facility or screenings separation unit, it is robust and easy to install. With only one moving part, this unit is virtually maintenance free. Slow-speed combined with automatic intermittent operation ensures a reliable and efficient system.

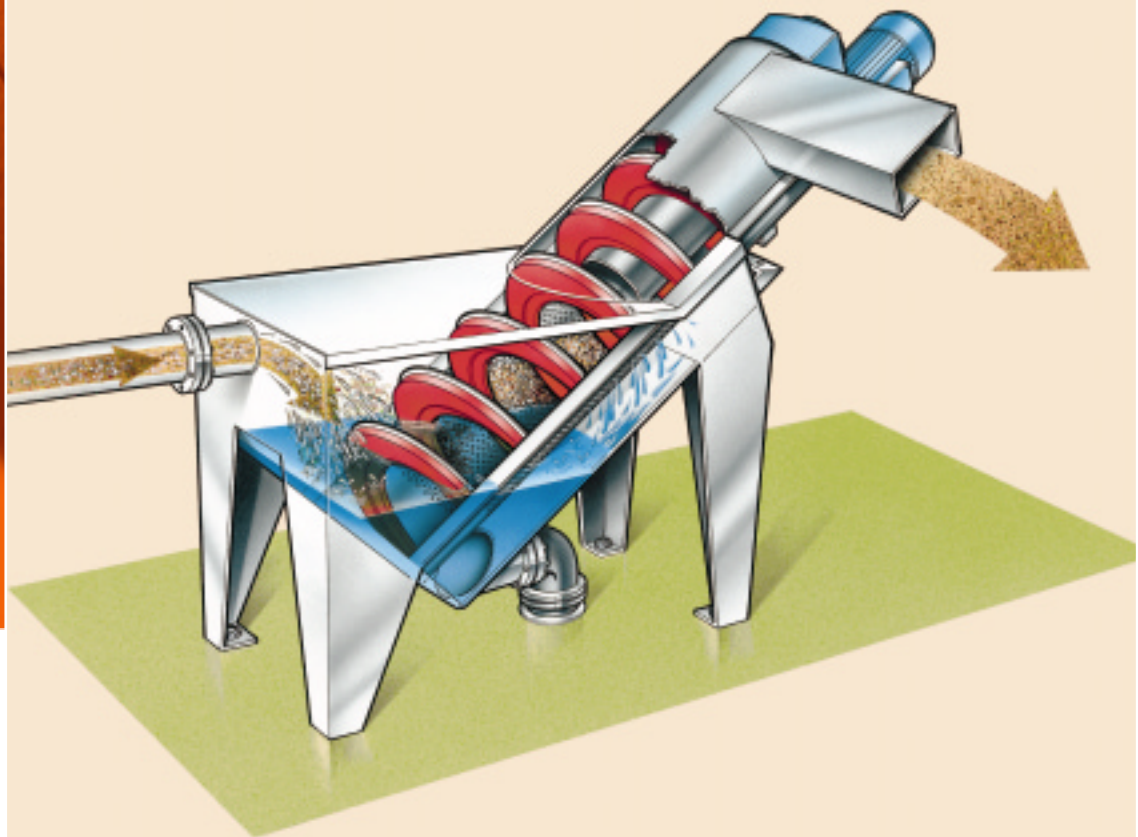
Options

- Screenings washing
- Conveying
- Dewatering
- Compacting

Technical data

- Capacity of wet screenings up to 3m³
- Weight reduction up to 80%
- Volume reduction up to 60%
- Dewatering efficiency 30-50%

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- > **SHAFTLESS SPIRAL**
 - > **COMPACT, ROBUST DESIGN**
 - > **LOW POWER**
 - > **LOW SPEED**
 - > **NO INTERMEDIATE OR END BEARINGS ARE UNDER WATER**
 - > **VIRTUALLY MAINTENANCE FREE**
-



SPIRAC **ST** Screen

The SPIRAC ST Screen has been designed to start where the step screen finishes with its new "stair-shaped concept". The screen contains innovative design solutions for many of the outdated designs currently used on similar screens, and represents the strongest and most durable fine screen on the market.

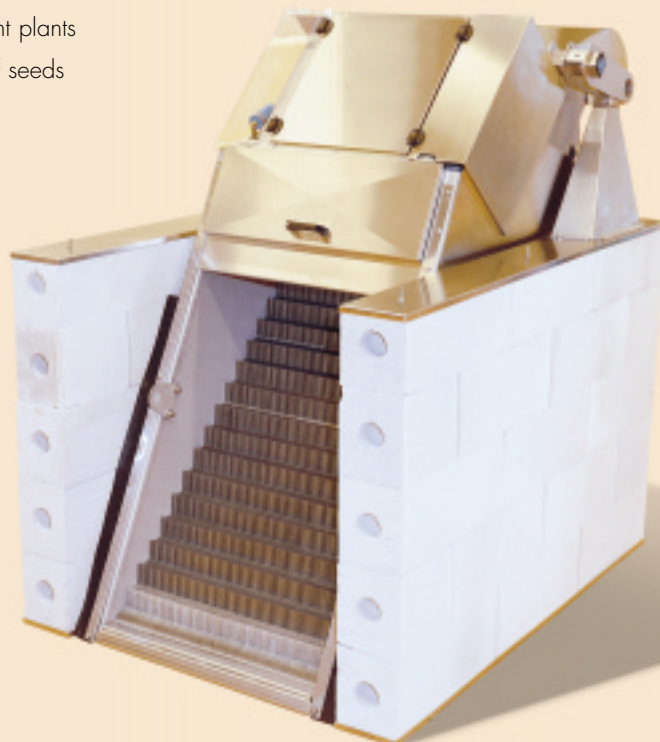
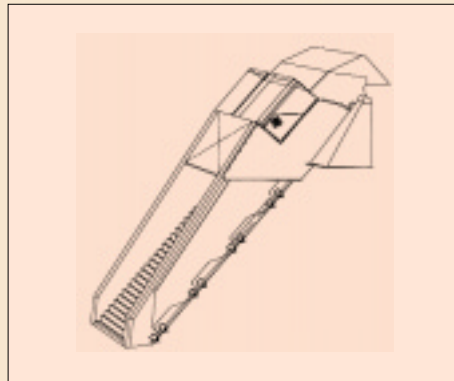
Five reasons to choose the SPIRAC ST Screen

1. New design of bar element fastening enables quick replacement.
2. Better alignment of the bars enables SPIRAC to build screens that have much finer space openings than any other screen of this type.
3. The doors and covers, as well as the enclosed motor compartment, have been designed to provide easy access and improved safety.
4. A new "stop-in-home position" solves the old "roll-back" problem.
5. A heavy-duty gear motor and transmission, including a unique type of bearing, provides an extremely long life cycle.

Typical applications

- Inlet works in sewage treatment plants
- Wine industry for extraction of seeds and skins
- Food industry
- Pulp and paper industry
- Abattoirs

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- **NO CHAINS, THEREFORE NO CHAIN WHEELS IN WATER**
 - **5mm FRAME**
 - **LONG-LIFE BEARINGS WITH AUTOMATIC GREASING**
 - **LOW SPEED**
 - **VIRTUALLY MAINTENANCE FREE**
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SPIRAC **SA** Classifier

The SPIRAC SA Classifier is a highly efficient unit designed to separate grit and other pollutants from process and effluent streams.

The design of the inlet section reduces turbulence to a minimum and creates an optimum flow pattern for efficient settling.

The solids settle in the bottom of the classifier which contains a shaftless spiral. The spiral transports the sediment slowly (speeds are kept to around 5rpm to minimise turbulence) to an inclined or vertical conveyor which then discharges the grit.

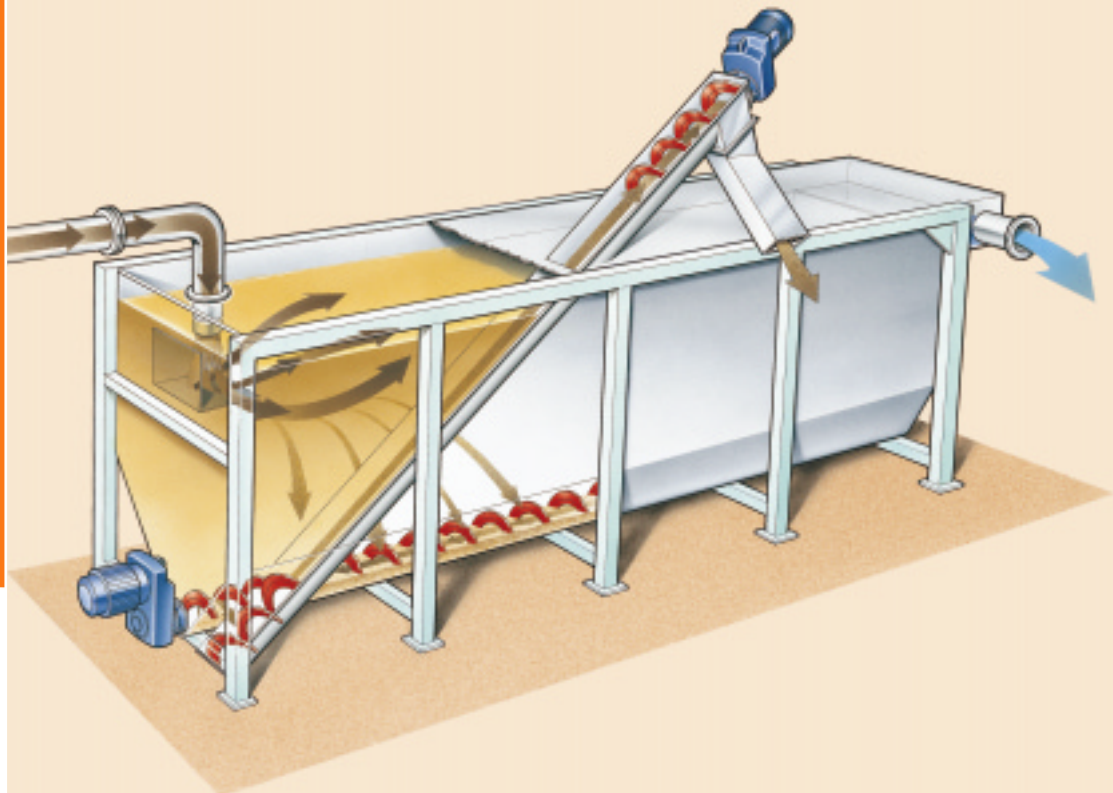
Options

- Screening
- Floating material removal

Typical applications

- Inlet works in sewage treatment plants
- Pulp and paper industry
- Food industry

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SPIRAC **CT** Screening and Classifying Unit

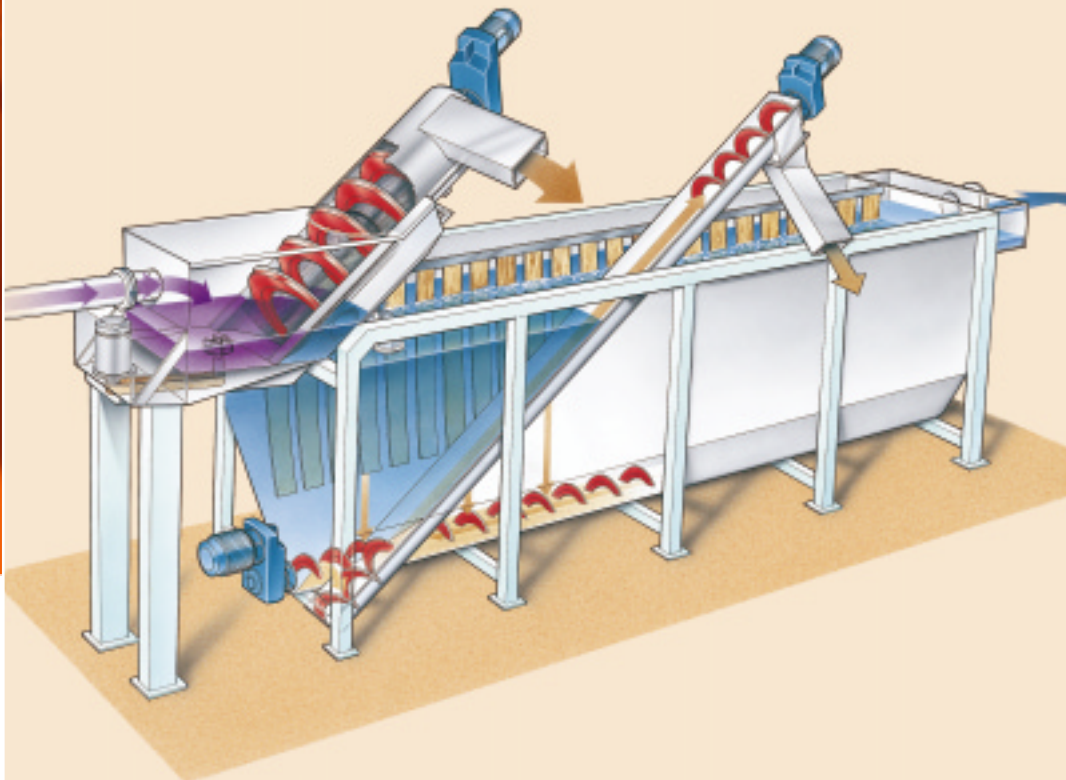
The SPIRAC CT Screen and Classifier has been developed to meet the requirements of small municipal communities for the inlet works in sewerage treatment plants. The SPIRAC CT unit can equally suit industrial pre-treatment of waste streams prior to discharge into public sewers.

The SPIRAC CT unit combines the features of the SPIRAC CC Screen and SPIRAC SA Classifier. Add to these features screenings washing, dewatering and flotation to create a complete inlet works system.

Typical applications

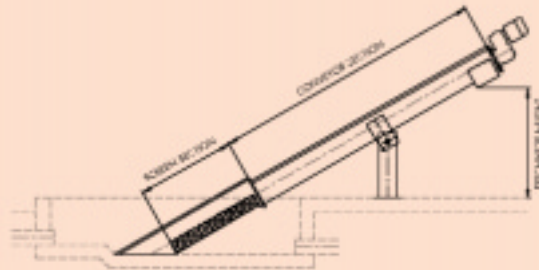
- Inlet works in sewage treatment plants
- Industrial effluent pre-treatment

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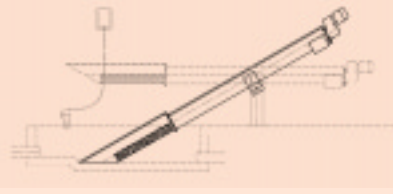


Technical specifications

SPIRAC CS Screen Standard Dimensions

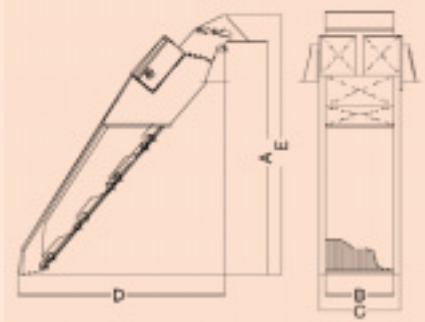


CS Screen pivoting support



| Model | CS200 | CS250 | CS300 | CS400 | CS500 |
|-----------------------------|-------------------|----------|----------|----------|----------|
| Main dimensions (mm) | | | | | |
| Channel width | 300 | 400 | 400+ | 500+ | 600+ |
| Screen spiral diameter | 160 | 200 | 290 | 390 | 485 |
| Length of screen section | as req. | as req. | as req. | as req. | as req. |
| Length of conveyor section | as req. | as req. | as req. | as req. | as req. |
| Screen capacities | | | | | |
| Length of screen section | 800+ | 1000+ | 1000+ | 1200+ | 1500+ |
| Screen aperture (mm) | 0.5-10.0 | 0.5-10.0 | 0.5-10.0 | 0.5-10.0 | 0.5-10.0 |
| Trough and covers | | | | | |
| | 304SS or 316SS | | | | |
| Pivoting support | | | | | |
| | HDG | | | | |
| Spiral | | | | | |
| | Special steel | | | | |
| Option | | | | | |
| | Automatic control | | | | |

SPIRAC ST Screen standard dimensions (mm)



*BASED ON 3mm SPACE OPENING

| Model | 1100 | 1700 | 2200 | 2800 | 3500 | 4000 |
|-------------------------------|----------|----------|----------|----------|----------|----------|
| A | 1100 | 1685 | 2270 | 2860 | 3440 | 4030 |
| B | 297-997 | 297-997 | 397-1997 | 397-1997 | 397-1997 | 397-1997 |
| C | 417-1117 | 417-1117 | 557-2157 | 557-2157 | 557-2157 | 557-2157 |
| D | 1110 | 1600 | 2080 | 2570 | 3075 | 3595 |
| E | 1450 | 1980 | 2535 | 3230 | 3810 | 4400 |
| m³/h (max)* | 1900 | 3500 | 8800 | 10500 | 13900 | 16500 |



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