

HAUS Screw Press



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HAUS SDE SERIES SCREW PRESSES

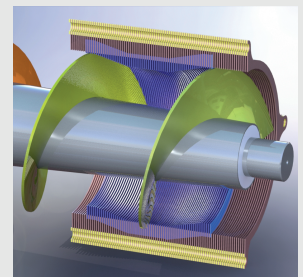
HAUS SDE Series Screw Presses have an inclined bowl which is made of moving and stationary discs, continuous discharging of sludge through screw conveyor, variable screw speed and torque power. SDE Series have been specially designed by HAUS for dewatering sludges in waste water and drinking water treatment facilities.

ADVANTAGES OF HAUS SDE SERIES SCREW PRESSES

- Automatic Washing System
- Automatic Adjustable Solid Discharge
- Continuous Product Feeding During Washing
- Working Without Fouling

OPERATING PRINCIPLES

The product is fed into the bowl and moves through the inclined bowl with the screw rotation direction. Flocculated solids are dewatered by the moving discs, while the water infiltrates between the disc gaps. Solids move through the bowl, while dewatering. At the end of the bowl the solids are pressed by the pressure cone, the water extracts from the solids and a highly dewatered solid remains. Cleaning by spraying pressurized water on the drum is automatically provided at periodic intervals. Where the amount of solids change, the conical pressure plate automatically adjusts the compression rate of the solid output and ensures maximum dryness.





SPECIAL FEATURES AND MATERIAL

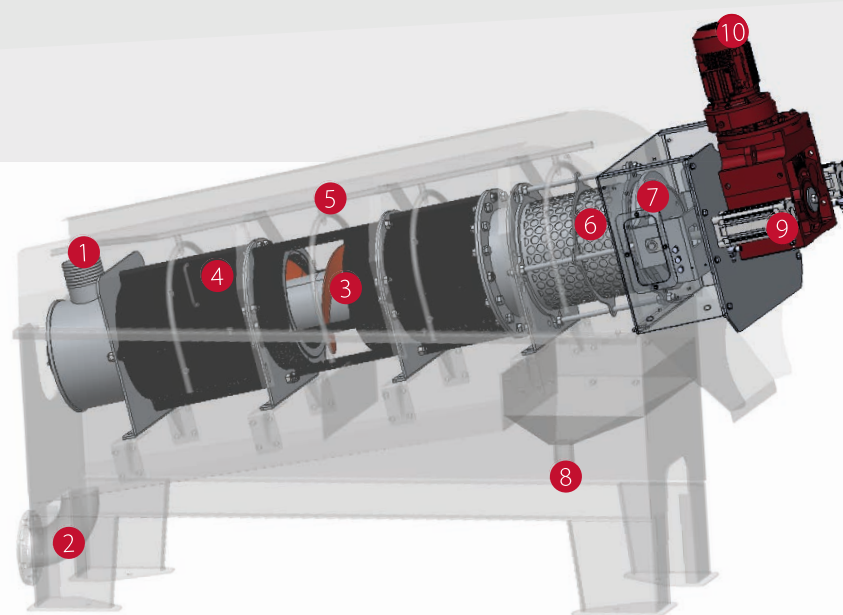
SDE Series Screw Presses adjust compression rate in accordance with the amount of solid. SDE Series consist of the appurtenances made from moving and stationary discs, a strong chassis that supports appurtenances and safety components. The appurtenances made from moving and stationary discs allow easy cleaning and prevent clogging. The Screw has a gradually narrowing design to ensure more infiltration in the beginning and more compression in the end. The SDE Series have an extra bunker for muddy water which infiltrates from the last sector. That muddy water can be pumped back to the condensing tank. A five-point washing system which is automatically controlled, ensures the bowl is always clean with the use of a small amount of water. The motor is driven by a frequency converter, which allows smooth start/stop, rotational speed regulation and power control. The solid output is automatically controlled by pneumatic pistons to treat a variable solid content and to ensure high dryness with low energy consumption. The system is controlled by a PLC.

All parts that belong SDE Series are made of high-grade stainless steel. At the solid output side of the screw, the conveyor tips are equipped with polyurethane material to sweep solids from the inner wall of bowl. The polyurethane material can be changed if necessary.

■ Automatic Solid Discharge Range

The solid outlet range is automatically adjusted over the pressure to discharge. It provides automatic and precise adjustment for variable solid rates instead of manual adjustment. This feature allows the dewatering of the variable sludge types to give a clear result instead of the approximate / average manual setting by entering the desired pressure value by the operator.

- 1 Sludge Inlet
- 2 Filtrate Outlet
- 3 Screw
- 4 Disc Unit
- 5 Washing System
- 6 Filtration Basket
- 7 Sludge Discharge
- 8 Feedback Tank
- 9 Pressure Cone Pneumatic Pistons
- 10 Reducer Max 2,1 rpm



■ Moving Disc

The system consisting of movable and hard disc which prevent clogging of the filtration structure. In this way, the system which is suitable for operation without washing a can dewater continuously. However, washing can be carried out either manual or by operator intervention. The system is made of high quality stainless steel: AISI304.

■ Scroll

The scroll structure, in three dimensions, is designed to compress the volume of the sludge at the ideal level in every step. Thus, it is possible to reduce the centrate leakage to zero while obtaining maximum dryness. The scroll is made of high quality stainless steel: AISI304. In the solid discharge of the scroll where the dewatering reaches the maximum level, the scroll flights are equipped with wear resistant castermid parts.

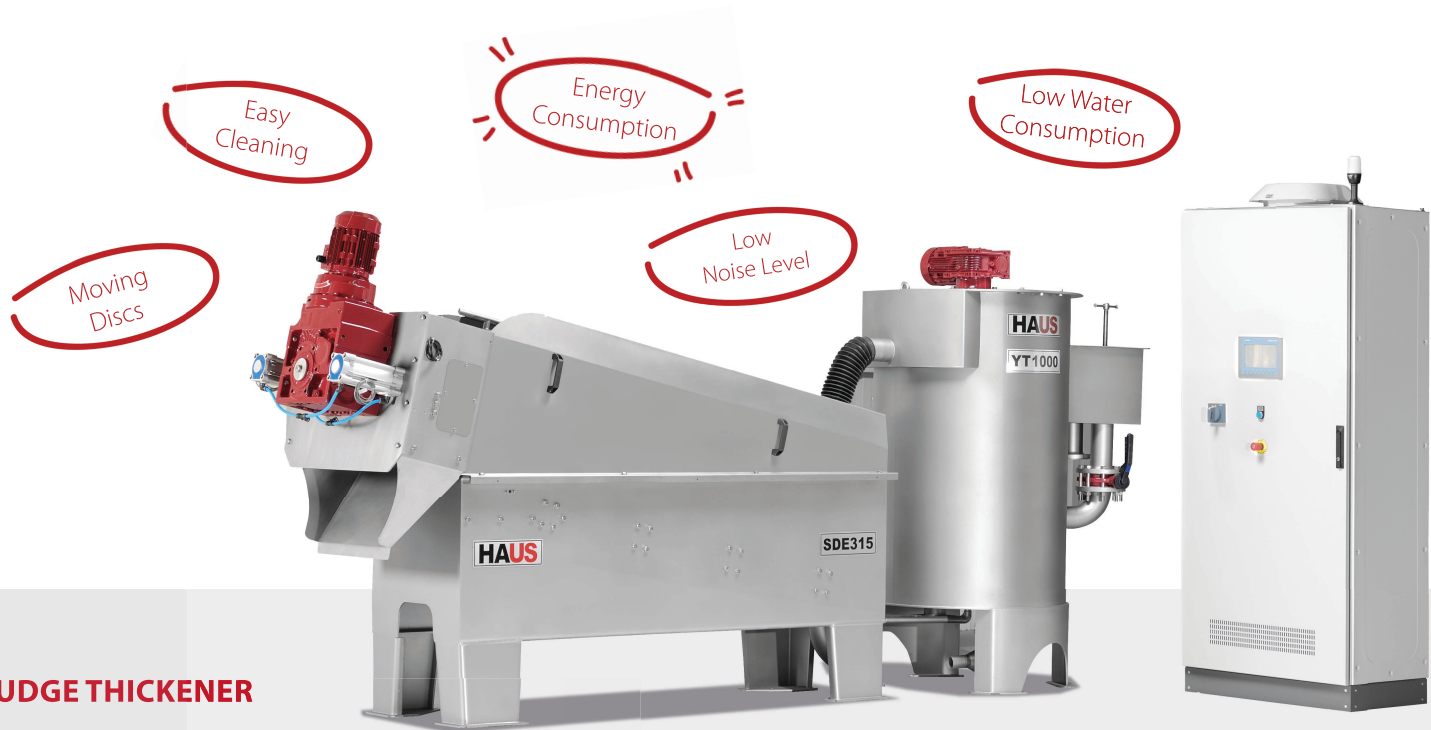
■ Drive Part

Thanks to the low speed drive, it does not produce disturbing noise and saves energy. The drive system does not require external lubrication. The drive system is controlled by an inverter that adjusts the speed of rotation, controls the power used, and provides a soft start & stop.

■ Control Panel

The electrical panel of the SDE Series provides maximum convenience with the user interface / HMI. All necessary controls for the operation of the screw press from the solid output pressure to the scroll cycle, the washing time and frequency to the feed rate can be controlled both automatically and manually. It also offers PLC software solutions which can optionally control other auxiliary equipment from the panel.





SLUDGE THICKENER

The YT1000 is a sludge thickener: flocculation system and filtration tank. The YT1000 has been designed by HAUS for waste water treatment plants and ensures maximum flocculation.

The YT1000 is equipped with mixer blades, a drive system, a sludge inlet, a polymer inlet, a washing water inlet, and flocculated sludge outlet and a recirculation sludge inlet. The YT1000 also comprises a filter system and a drainage system to ensure maximum efficiency. The mixer blades optimize mixing and ensures better flocculation. Filtration mechanism filtrates the excess water of the flocculated sludge and reduces the load on the next machine (screw press, decanter centrifuge etc.) load. The drainage system prevents overflow when the free flow outlet cannot handle the feeding.

All parts that belong YT1000 made of high-grade stainless steel. Filtration system made out of castermid rings.

SERVICE AND MAINTENANCE

SDE Series are easy to operate, regulate, maintain and service. HAUS provides continuous, reliable and qualified service organization for all its customers.

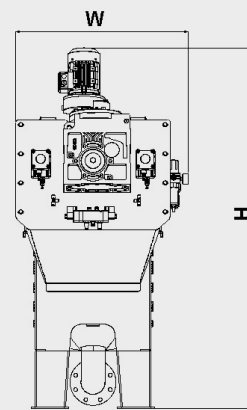
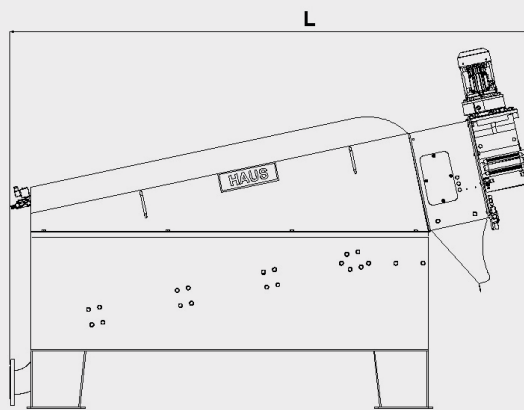
LOW OPERATIONAL COST

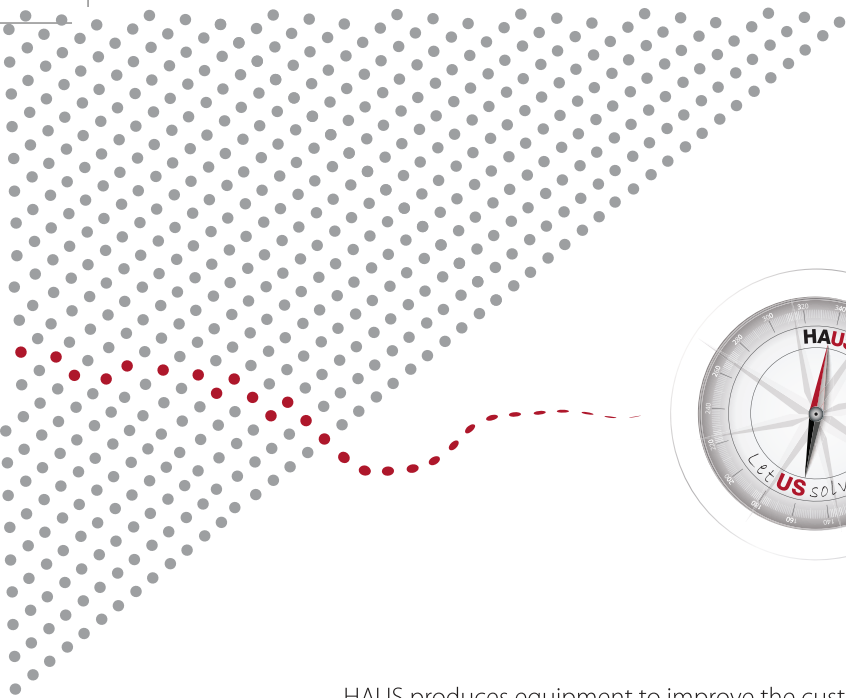
Comparing other dewatering equipment, Screw Presses provide energy consumption up to 80% due to its low speed working. SDE Series are water saving, because without washing they can work long time with their moving bowl system. Washing is adjustable by operator requirements. Moreover, SDE Series maximize the efficiency contrary to equivalent technologies since there is no need to stop feeding sludge during the washing period.

PRODUCT PORTFOLIO

| | SDE 315 | SDE 405 |
|--------------------------------|---------------|---------------|
| Installed Power (kW) | 0,55 | 1,1 |
| Gearbox (rpm) | 0 - 2,5 | 0 - 2,5 |
| Noise Level (dB) | <65 | <65 |
| Main Dimention (LxWxH) (mm) | 2480x820x1720 | 3100x880x2130 |
| Total Weight (kg) | 850 | 1500 |

| MAIN MATERIAL | |
|---------------------|-----------|
| Bowl Body | AISI 304 |
| Screw Conveyor | AISI 304 |
| Scroll Conveyor Tip | Cestarmid |
| Casing | AISI 304 |
| Frame | AISI 304 |





HAUS produces equipment to improve the customer processes over 60 years.

HAUS provides decanter centrifuges, disc stack separators, continuous system olive oil plants, BioDigestors, screw presses and turbo blowers for industrial, food and environmental applications. The Research and Development Center continuously elaborate solutions which are innovative, more efficient, environment friendly and energy saving. Advanced manufacturing technology and top edge fabrication tools assure the best quality at competitive prices. An extended and proactive network of service centers assist the customers to maintain and prolong the value of the equipment.

HAUS has been proven to be the right partner to support the customer growth.



Advanced Manufacturing

- Integrated factory in Aydın / Turkey
- Latest technology equipment
- Quality system management



Quality system

- ISO 9001:2015
- ISO 14001:2015
- OHSAS 18001:2007
- ISO 22000:2005



R&D CENTERS

- Design, Test Area and Laboratory
- HAUS Turkey
- HAUS Turbo Compressor - Germany



After Sales Services

- Installation and commissioning.
- Original spare parts.
- Periodical maintenance.
- Customer assistance.



Global Presence

- HAUS Europe / The Netherlands
- HAUS SEA / Malaysia
- HAUS MED / Italy
- HAUS IBERICA / Spain
- HAUS Istanbul / Turkey
- Over 30 local representatives



Broad Product Range

- Decanter centrifuges
- Disc stack separators
- Continuous System Olive Oil Plants
- Bio Digestors
- Screw presses
- Turbo Blowers in various capacities.

HAUS, reserves the right to modify the specifications here in without prior notice.



- **FACTORY**
ATA OSB Mahallesi
Denizli Bulvarı No:110
Aydın-TURKEY
T:0 256 231 04 81
F:0 256 231 04 83
- **HAUS İstanbul**
Şerifali Mahallesi
Emin Sokak No. 51/6 34775
Ümraniye-İstanbul-TURKEY
T:0 216 576 06 27
F:0 216 576 06 37
- **HAUS Europe**
Ridderkerk-NETHERLANDS
T:+31 85 48 91 190
info@hauseurope.com
- **HAUS Med**
Bari-ITALY
T:+393407266058
info@hausitaly.it
- **HAUS Iberica**
Cordoba-SPAIN
info@hausiberica.es
- **HAUS Sea**
Kuala Lumpur - MALAYSIA
T:+60 17 267 8116
info@haussea.my
- **HAUS SA**
New Delhi, INDIA
T:+91 11 6654 4078

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