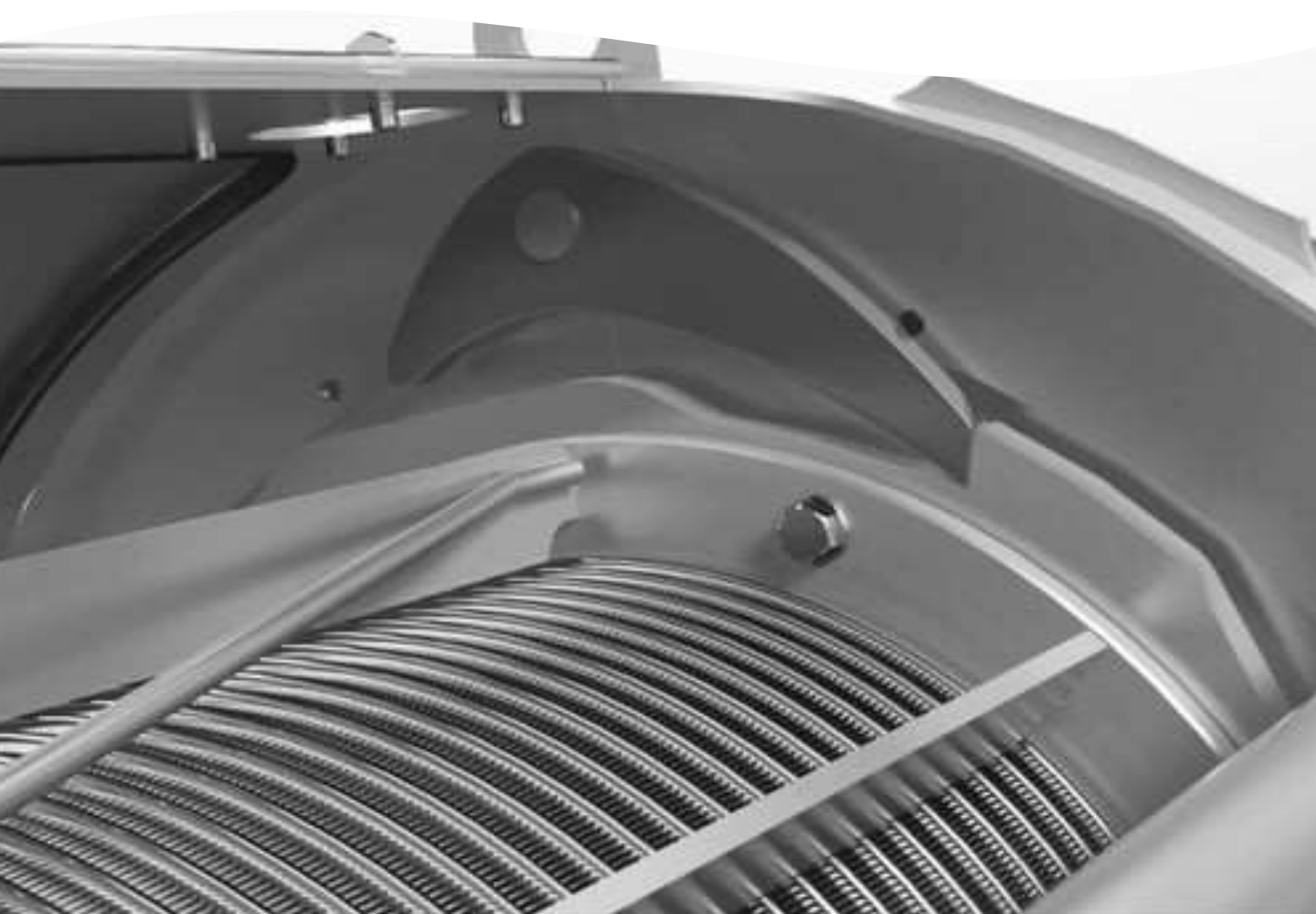


▼ INCLINED SLUDGE PRESS
SLUDGE DEWATERING
SIMPLIFIED



Ideal for dewatering industrial sludge...

- ▶ The HUBER RoS3Q Inclined Sludge Press (ISP) is a unique sludge dewatering process developed by HUBER over 20 years ago, to provide a simple, high performance system that offers an attractive life cycle value.



- ▶ The HUBER ISP is ideal for dewatering primary sludge from DAF systems and clarifiers or biological sludge generated by industrial wastewater treatment plants.

So simple and efficient

▼ There are numerous benefits to the HUBER ISP compared to other conventional dewatering systems.

- Virtually no wear because of < 1.5 rpm screw rotation speed.
- Very low power consumption < 0.01 kWh per ton DS.
- Dewatering very thin sludge at $< 1\%$ DS.
- Reliable operation with very few moving parts so minimum wear and tear and low spare parts costs.
- Sturdy stainless steel design.
- Easy access through large inspection openings.
- Low wash water consumption ($< 8\%$ of sludge feed flow).
- High filtrate quality and high solids capture rate (usually $> 97\%$).
- Compact design and small footprint.
- Vibration-free and virtually noiseless.



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▼ **Over 1200 machines installed worldwide**

“Australia’s most experienced wastewater treatment company”



The HUBER ISP Key Features...

▼ MOTOR ¹

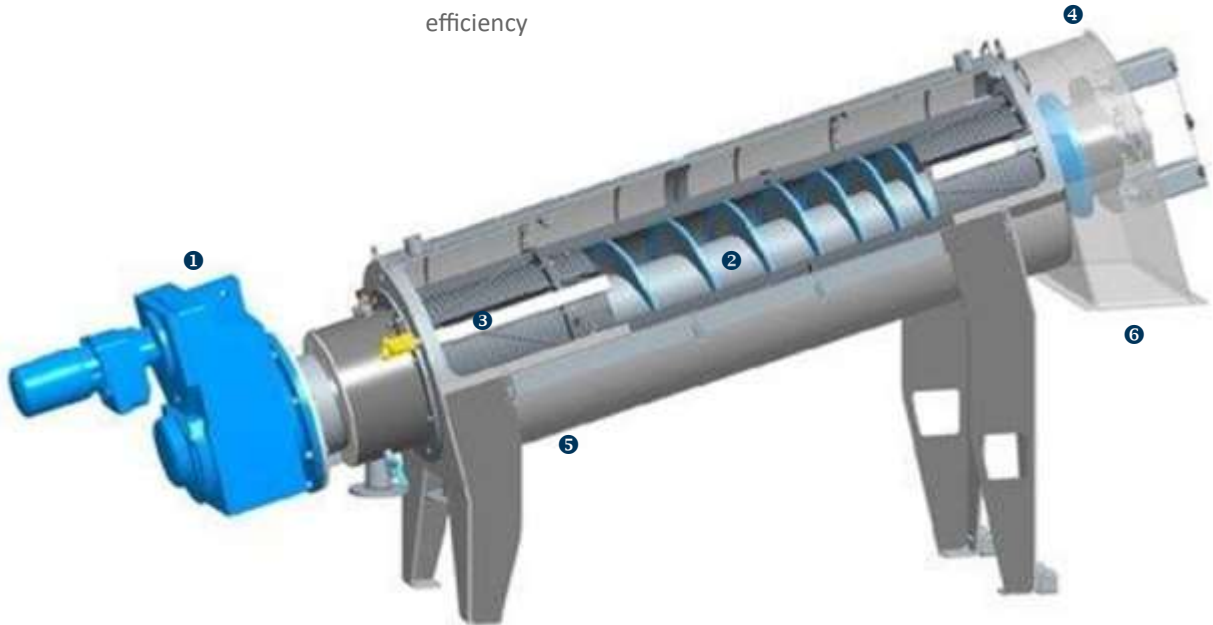
Low power drive motor rotating the auger at 0.2—1.5 rpm

▼ AUGER ²

The auger has an increasing shaft diameter and decreasing gap between the flights. That progressively increases the pressure on the sludge and maximises dewatering efficiency

▼ SCREEN ³

Stainless steel screen basket in three sections of decreasing aperture size.



▼ OUTLET ⁴

Pneumatic cylinders for maintaining a continuously adjustable pressure of the discharge cone.

▼ ENCLOSURE ⁵

Stainless steel enclosure designed to last with large inspection openings.

▼ DISCHARGE ⁶

Discharge chute designed to allow dewatered sludge to drop into a bin or connect to a conveyor system.

Simple to operate and maintain

- ▶ Sludge is flocculated inline with a polyelectrolyte and enters the machine. As the sludge enters, filtrate is drained through the mesh and conveyed by the screw through the drum length. The drum consists of variable apertures and profiles, and together with a reducing screw pitch and increased shaft diameter, pressure is gradually applied to the sludge mass. High pressure is applied at the outlet section via a pneumatic cone. The screw rotates at less than 1 rpm. Cake is discharged through the cone and filtrate collects within the main case and is discharged via gravity to the filtrate outlet flange.



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Sludge is not the same...

- ▼ The properties of sludge generated from wastewater treatment plants varies significantly but with suitable flocculation and by correctly setting the machine operating parameters, the HUBER Screw Press will dewater virtually any type of sludge including primary and secondary blends.



- ▼ The Screw Press system is the hardware of the dewatering system but it is surrounded by expertly designed ancillary components that ensure the overall treatment system is simple to operate and maintain with optimum performance

More than a sludge press...

- ▼ A complete dewatering plant comprises more than just the HUBER ISP. Hydroflux Industrial will supply all the components necessary to ensure that the overall dewatering process is complete.
 - Fully automated chemical condition systems to optimise the performance of the plant including a unique specially designed polymer blending and dosing system.
 - Sludge conveyors and belts to enable transfer and distribution of dewatered sludge into suitable bins.
 - Sludge storage and mixing tanks to ensure thorough blending of varying sludge and allowing a consistent feed via transfer pumps to the ISP.



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Capacities to suit all industrial applications

- ▶ The ISP is available in four sizes. The largest unit can dewater slurry at a rate of up to 500 Kg of dry solids per hour.



Model	Hydraulic load (kL/hr)	Dry Solids Load (Kg/hr)	Weight (Kg)
RoS3Q280	2-4	40-70	700
RoS3Q440	4-8	70-140	1230
RoS3Q620	9-15	150-300	3000
RoS3Q800	15-25	300-500	5500

Capacities subject to sludge properties

- Engaging a professional wastewater treatment company to look after the sludge dewatering aspect of your treatment plant or even the entire wastewater project is a convenient, economical and hassle free option for industry.

Hydroflux Industrial can provide all process design works, manufacture and fabrication, construction and even complete operation of your wastewater treatment plant.

When Hydroflux Industrial provides complete solutions, we can either undertake a contract on a turnkey basis or work together with building services engineers and other construction professionals to ensure that the project is delivered smoothly, without interruption and on time.



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Hydroflux Industrial is GRS Certified to the following standards

OHSAS 18001 & AS/NZS 4801 SAFETY MANAGEMENT SYSTEM



Certificate Number: 47718001610008

Certificate Number: 4774801610008

ISO 14001 ENVIRONMENTAL MANAGEMENT SYSTEM



Certificate Number: 47714001610008