GELEN

PRODUCT BROCHURE



HY SERIES

SCREW CLASSIFIERS

WASHED, CLASSIFIED AND DEWATERED SAND, IN ONE PASS.

SAND WASHED IN THE POOL, DEWATERED ON THE CLIMB.

The HY series washes, classifies and dewaters sand in a single machine. Slurry feeds the pool at the low end of an inclined trough. Silt and clay leave over the weir with the water, while the spiral lifts the sand up the incline, drains it on the climb and drops a product that can go straight to the stockpile. Six models, in single and twin spiral designs.

6
MODELS IN THE SERIES

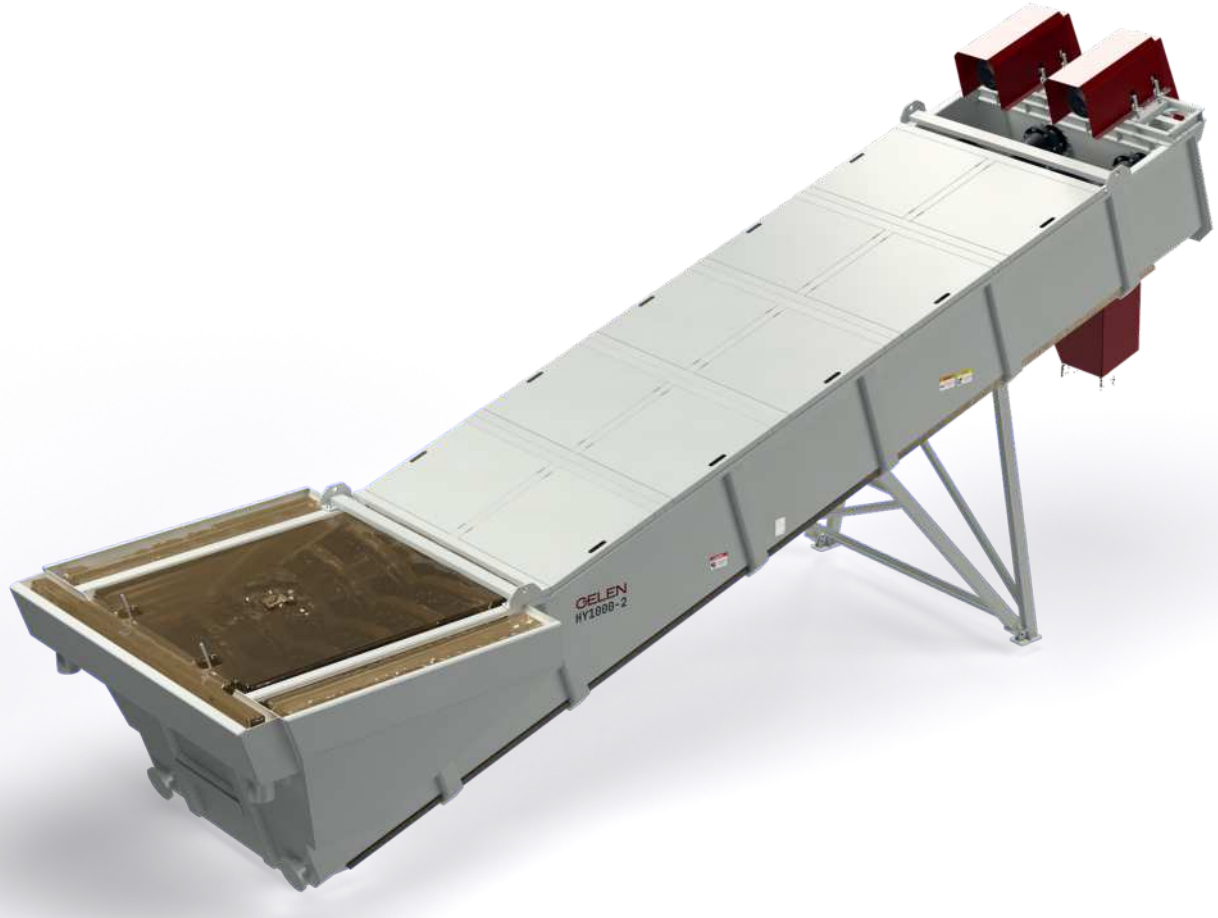
160 t/h
MAX. OUTPUT

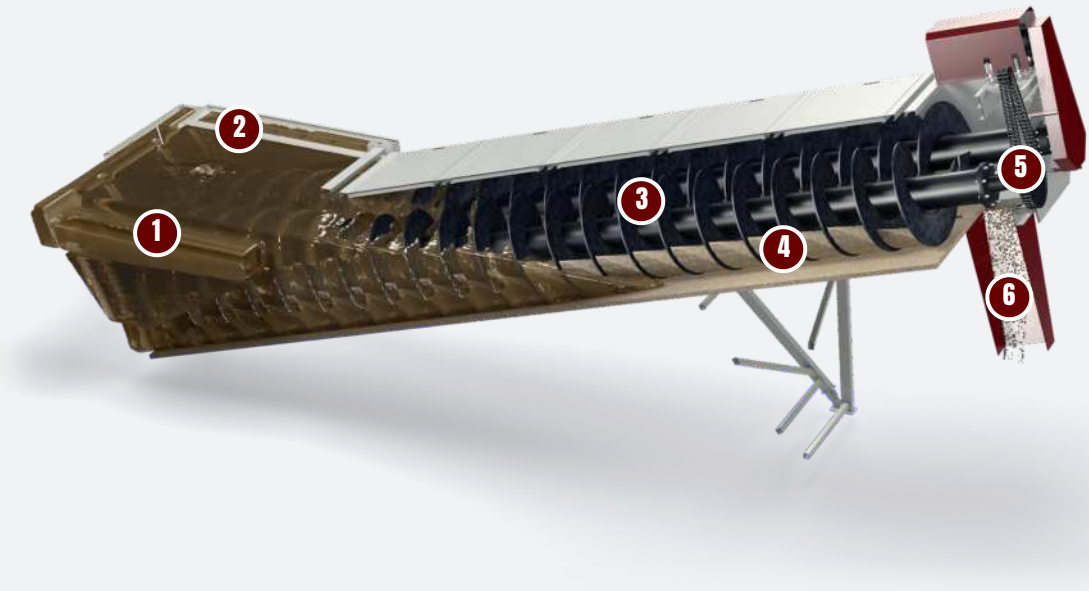
1,000 mm
LARGEST SPIRAL Ø

22 kW
MAX. INSTALLED POWER

APPLICATIONS

- CONCRETE & ASPHALT SAND
- MANUFACTURED SAND
- NATURAL SAND & GRAVEL
- INDUSTRIAL SAND
- RECYCLED AGGREGATE





DESIGN

ANATOMY OF AN HY.

One tank, one slope and a slow-turning spiral do three jobs: the pool washes, the weir classifies, the climb dewaters. Shown cut away and running: a twin-spiral HY.

1 Settling pool

Slurry feeds the pool at the low end. The sand settles onto the spirals while the water carries silt and clay toward the weir.

2 Overflow weir

Dirty water and fines leave over the weir into the launder round the rim. Water volume, feed rate and spiral speed set the cut.

3 Twin spirals

Two opposite-handed spirals turn inward and carry the settled sand up the trough. Single-spiral models carry one.

4 Dewatering climb

Out of the pool, the flights lift the sand up the trough while the water drains back to the pool.

5 Chain drives

A gear motor and a roller chain for each spiral, under a guard at the top end, out of the water.

6 Sand discharge

Washed, drained sand drops from the chute at the top end, ready for the stockpile conveyor.

Three jobs, one machine

- Washes out silt and clay in the pool
- Classifies at the overflow weir
- Dewaters by drainage on the incline
- No separate dewatering stage for most concrete and asphalt sand

Sized to the plant

- Single and twin spiral designs
- A twin spiral handles more sand without a longer machine
- Suits compact sand lines and plants with limited water
- Output stated for 0–3 mm and 0–7 mm sand products

Slow and simple

- The spiral turns at low speed, keeping wear, noise and energy use low
- Drives at the top end, out of the water
- Straightforward maintenance
- Sized with the screens, crushers and conveyors around it, as one sand line







SPECIFICATIONS

SCREW CLASSIFIERS - HY SERIES

MODEL	SPIRAL Ø × LENGTH mm	OUTPUT 0–3 mm sand mtph	OUTPUT 0–7 mm sand mtph	POWER kW	WEIGHT kg
SINGLE SPIRAL					
HY880	Ø800x8000	75	100	11	4,500
HY660	Ø600x6000	30	45	5.5	2,500
TWIN SPIRAL					
HY1100-2	Ø1000x10000 - 2	110	160	2x11	6,500
HY880-2	Ø800x8000 - 2	110	160	2x11	6,500
HY660-2	Ø600x6000 - 2	55	85	2x5.5	3,500
HY550-2	Ø500x5000 - 2	40	60	2x4	2,700

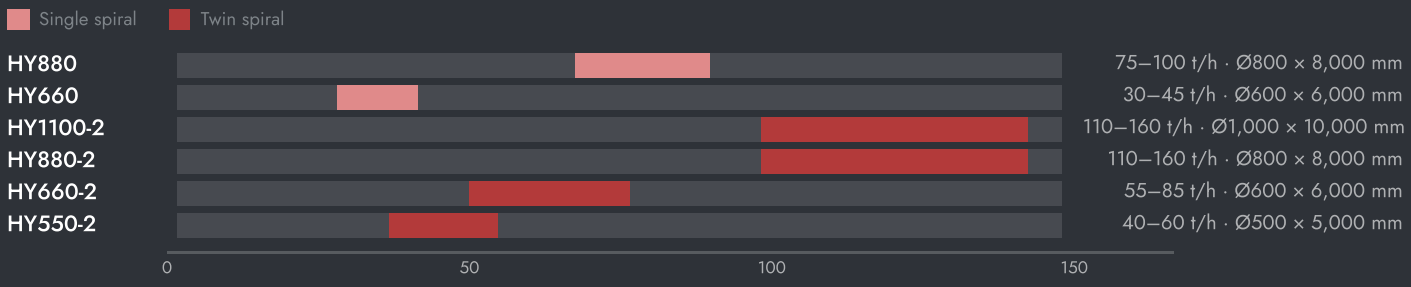
Values are nominal and depend on feed material, gradation and moisture. Metric units; an imperial edition of this brochure is available on request.



CHOOSE YOUR MODEL

ONE SERIES. THE WHOLE RANGE.

Six models in two groups: single-spiral machines for compact sand lines, twin-spiral machines for higher tonnage without a longer trough. Each bar runs from a machine's output on 0–3 mm sand to its output on 0–7 mm sand.





SETTING THE MACHINE

- Feed a steady slurry. Surges of solids or water move the cut point and let sand escape over the weir.
- Check the overflow for sand. If good sand leaves with the water, reduce the water volume or the feed rate first.
- Watch the discharge. A wet, sloppy product usually means the spiral is overloaded or turning too fast for the material.
- Inspect the flights on a schedule. Worn flight edges reduce both capacity and dewatering.

HOW TO CHOOSE

01 Start from the sand: tonnage, gradation, fines content and the product you need.

02 Read the output for your product off the bars: 0–3 mm at the low end, 0–7 mm at the high end.

03 GELEN engineering sizes the classifier and its water circuit together, for your plant.

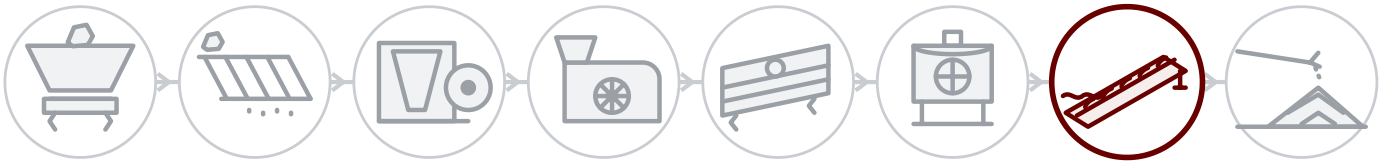


IN THE PLANT

WHERE IT WORKS.

An HY sits under a wet screen or after a VSI crusher. It takes the sand fraction with its water, sends the silt and clay away over the weir, and turns the rest into a washed, drained product ready for concrete and asphalt specifications.

TYPICAL PLANT FLOW



BEHIND EVERY MACHINE

Field service

Installation, commissioning and inspection by GELEN engineers, on site anywhere we sell.

Spares by serial number

Every machine has a serial and a QR on its nameplate. Scan it, and its parts list, manuals and service history open — and a spares order is one tap away.

Remote support

Production data, alarms and performance analytics from every connected plant, with support from the works.

CONTACT

TALK TO THE WORKS.

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SCAN FOR THE PRODUCT PAGE, CATALOGUE AND ENQUIRY FORM.

Full specifications, drawings and every other GELEN machine are in the Products Catalogue.

