

GELEN

PRODUCT BROCHURE

GLW SERIES

LOG WASHERS

CLAY AND SOFT STONE SCRUBBED OFF, STONE ON STONE.

GLW SERIES

BUILT FOR THE TOUGHEST CLAY.

When clay, conglomerates and soft stone cling to gravel and crushed stone, rinsing alone will not clean it. In a GLW, two shafts fitted with heavy paddles turn in an inclined tub of material and water. The paddles lift, tumble and grind the stone against itself as they push it up the tub; the loosened clay and light debris float away with the water, and the scrubbed stone discharges at the upper end. Five models.

5
MODELS IN THE SERIES

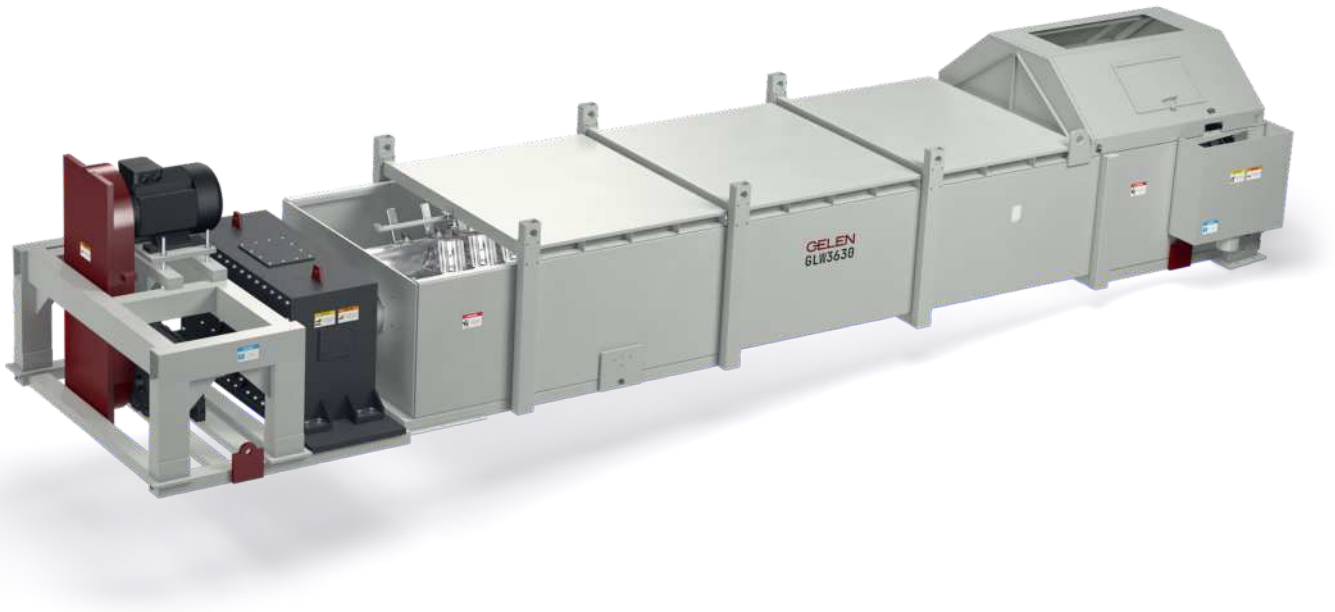
100 mm
MAX. FEED SIZE

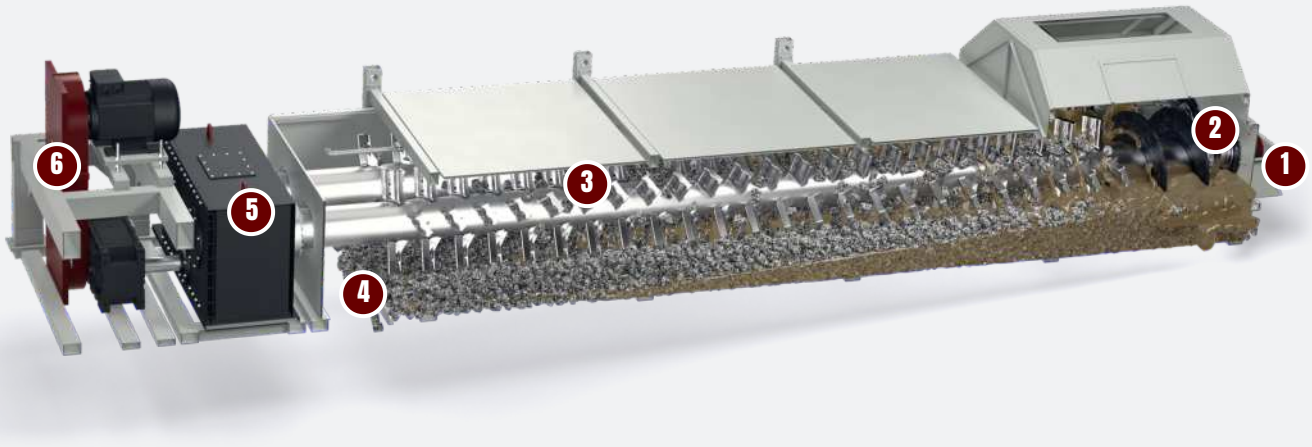
175 t/h
MAX. OUTPUT

160 kW
MAX. INSTALLED POWER

APPLICATIONS

CLAY-BOUND GRAVEL | CRUSHED STONE WITH CLAY | CONGLOMERATES & SOFT STONE | ORE & INDUSTRIAL MINERALS | RECYCLED AGGREGATE





DESIGN

ANATOMY OF A GLW.

A log washer cleans by attrition: stone rubbing against stone in water, driven by heavy paddles. Shown cut away and running: a GLW3630.

1 Overflow weirs

Dirty water and the clay it carries leave over the weirs at the feed end.

2 Sealed feed-end bearings

The feed-end bearings run under the pool, behind face seals, a wear collar and a water thrower.

3 Twin paddle shafts

Cast paddles on two shafts scrub the stone against itself as they carry it up the tub. Worn paddles are replaced one at a time.

4 Clean stone out

Scrubbed stone climbs out of the pool and leaves at the drive end, for the rinsing screen.

5 Dual-output gearbox

One gearbox clamps both paddle shafts and turns them in step.

6 Belt drive

The motor drives the reducer through V-belts behind the guard.

Scrubbing, not just rinsing

- Heavy paddle shafts grind material against material in the tub
- Breaks up clay balls and conglomerates that spray bars cannot remove
- Clay, silt and light debris such as wood and roots float off with the overflow
- Hands a clean coarse product to the rinsing screen

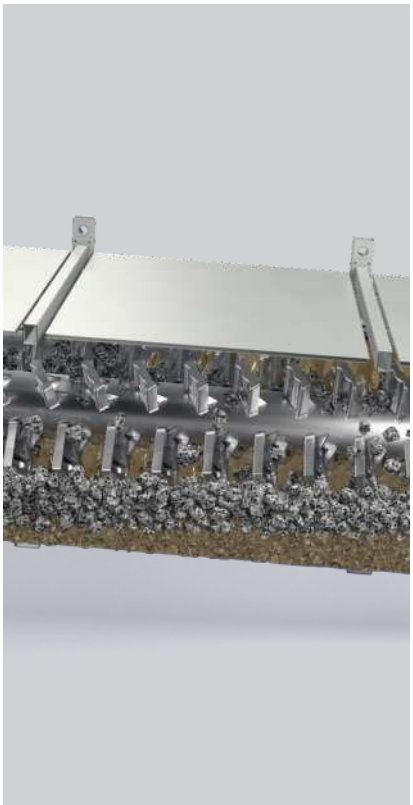
Torque, slowly

- High-torque drives sized for scrubbing
- Slow-turning shafts give scrubbing torque without high wear speeds
- Water demand published for every model, to size the supply and the rinsing screen

Built to be maintained

- Replaceable paddles, changed without replacing the shaft
- Replaceable tank liners
- Feeders, rinsing screens, screw classifiers and sand plants around it from one maker







SPECIFICATIONS

LOG WASHERS - GLW SERIES

MODEL	SIZES (DIA X L) mm	MAX MATERIAL mm	MAX CAPACITY mtph	EST. WATER REQUIRED cu.m/h	POWER kW	SPEED rpm	WEIGHT kg
GLW2420	610x6100	50	25 - 60	68.2	30	20 - 40	9,200
GLW3630	910x8650	75	50 - 125	113.4	90	16 - 32	17,500
GLW3635	910x10500	75	50 - 125	113.4	110	16 - 32	20,200
GLW4430	1120x8650	100	75 - 175	170.5	132	13 - 26	21,750
GLW4435	1120x10500	100	75 - 175	170.5	160	13 - 26	23,100

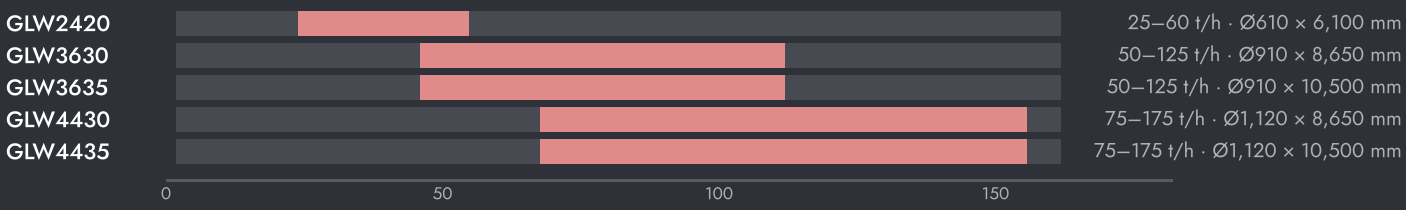
Values are nominal and depend on feed material, gradation and moisture. Metric units; an imperial edition of this brochure is available on request.



CHOOSE YOUR MODEL

ONE SERIES. THE WHOLE RANGE.

Five models, from the GLW2420 for a compact washing line to the GLW4435 with the longest, largest-diameter shafts. Each bar spans a machine's capacity range; the note gives its shaft size.





SETTING THE MACHINE

- Keep the tub fed. A full tub scrubs material against material; a starved tub wears paddles against stone.
- Add water at the rate the model is rated for. Too little turns the tub into mud; too much floats clay balls out uncleaned.
- Rinse after scrubbing. Loosened clay stays on the stone until the screen's sprays wash it off.
- Inspect paddle tips on a schedule. Worn tips reduce scrubbing long before capacity drops.

HOW TO CHOOSE

01 Start from the feed: tonnage, top size, and how much clay it carries and how sticky it is.

02 Choose a model whose maximum material size takes your largest stone; read its capacity off the bar.

03 Follow the log washer with a rinsing screen, and send the sand fraction to a screw classifier.

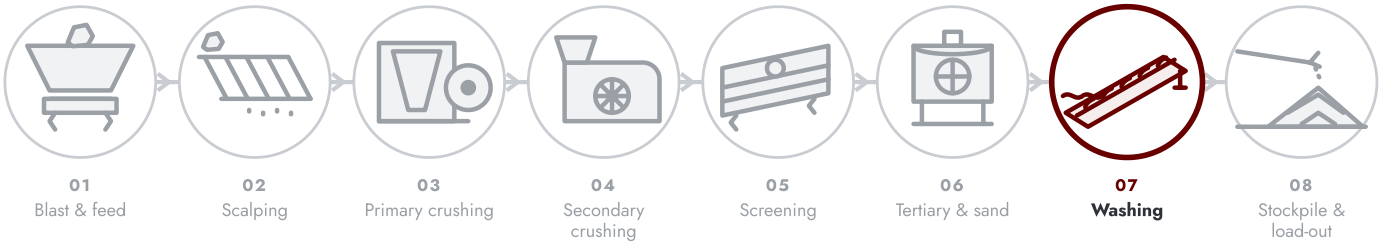


IN THE PLANT

WHERE IT WORKS.

A log washer sits after the feeder and before the rinsing screen. It scrubs the clay loose; the screen washes it off with spray bars and sizes the stone; the muddy water and sand go on to a screw classifier or a sand washing plant. With the scrubber first, the screen and the sand line receive material that is already free of clay balls.

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

SCAN FOR THE PRODUCT PAGE, CATALOGUE AND ENQUIRY FORM.

