

Hydro-Mechanical Equipment





Kuenz Hydro-Mechanical Equipment Ensures Maximum Safety.

Proven Technology

The world needs renewable energy. Decades of expertise make Kuenz the first choice for Hydro-Mechanical Equipment in Europe and North America.

Wheter for new construction, revitalization or customized solutions – Kuenz offers innovative and first class quality products to customers in the energy and waste management sectors.

1 Planning and conceptual design

Customized Concepts for your project.

All from One Source

Decades of experience, well-trained personnel and interdisciplinary balanced concepts make Kuenz an efficient full-service provider.

Our Core Competence

- Planning and conceptual design
- Mechanical, electrical und hydraulic engineering
- Manufacturing Steel construction, mechanics, electrics and anti-corrosion protection
- Assembly and commissioning

Everything from one source.



² Engineering

³ Manufacturing

⁴ Assembly and commissioning

Hydro-Mechanical Equipment for Run-of-River Power Plants

Durability and Safety

Endurance and safety are the basic requirements for equipment in generating stations. Project specific optimized products by Kuenz guarantee safe operation for decades.

Trash Rack

A flow and vibration optimized design guarantees utmost protection of the turbine and low loss of energy.

- Closure size from 30 to 400 m²
- Clear width of trash rack bars from 20 mm
- Aerodynamic designed rack support
- Welded or bolted execution
- Designed stainless, hot-galvanized, painted or untreated
- Withdrawable or braced rack sections

Stop Logs

Modular systems from Kuenz are individually applicable.

- Designed as panel or stackable
- Clear width of the single element from 5 to 30 m
- Clear height of the single element from 1 to 4 m
- Optional with venting valve
- Weight from 3 to 30 t
- Assembly in recesses or connected to the intake
- Designed as fixed or a sliding wheel construction
- Optional with automatic grappling beam

Flap Gates

Ideal for the regulation of the water levels and the romoval of debris and splash water.

- Gate size from von 25 to 120 m²
- Weight up to 50 t
- Hydraulically actuated
- Optional: opens self-acting and without external energy

Radial Gates

Project specific design and manufacture. Construction with or without flap.

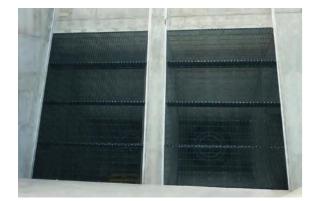
- Gate size from 50 to 300 m²
- Clear width 10 to 40 m; Clear height 5 to 15 m
- Weight up to 160 t
- Hydraulic drive
- Clear height of flap from 1 to 4.5 m

Sluice Gate

Operation or revision gates.

- Designed as sliding or fixed wheel construction
- Optional sealed in both directions
- Clear width up to 10 m, clear height up to 8 m
- Hydraulically actuated

Trash Rack



Stop Logs



Flap Gate

Germany and Switzerland



Radial Gate with Flap



Sluice Gate



Custom Solutions

Kuenz offers cutomized solutions for Hydro-Mechanical Equipment. Long term experience and many proven solutions



Floating Bulk Heads for Spillway - HPP Adriach, Austria





- HPP IIIspitz, Austria



- Punt dal Gall Dam, Switzerland

High Head Gates



Outlet Gate, Obervermuntwerk II, Austria

High Head Gates for Pumped Storage Power Plants

Draft Tube Gate, Kopswerk II, Austria

Highest Precision

Kuenz delivers draft tube gates, bottom outlets and emergency gates designed with utmost accuracy during manufacturing and assembly and guarantees trouble-free operation in pumped storage power plants by means of state-of-the-art construction practises.

Gates are designed as sliding gates or fixed wheel construction:

- Site-specific dimensions
- Hydrostatic heads up to 200 m
- Emergency gate or control gate
- Hydraulic drive
- Lining of gate shafts

Crane Systems and Trash Rack Cleaning Machines

Integrated Solutions

Besides Hydro-Mechanical Equipment Kuenz also offers a comprehensive portfolio of Cranes and Trash Rack Cleaning Machines. Whatever the situation requires - Kuenz offers the appropriate innovative and efficient solution.

Kuenz Cranes or Trash Rack Cleaning Machines can be used for:

- Removal of debris at the intake
- Removal of bulky debris, trash rack or stop log panels using a hydraulic crane or auxilliary hoist
- Debris push rakes optional
- Assembly and maintenance operations



Stop log lifting with TRCM



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