High Performance. Since 1967!

TRCM
Trash Rack Cleaning Machines

kinz
MILESTONES: 50 Years Kuenz Trash Rack Cleaning Machines

1967
Raggal
Austria
First TCRM
Kuenz installs the first trash rack cleaning machine.

2000
Faulbach
Germany
TRCM-H
Multi-functional hydraulic machine is added to Kuenz portfolio.

1975
Altenwörth
Austria
Danube River
Kuenz commissions first TCRM on Danube River for major run of river plant Verbund AG.

2001
Ottmarshausen
Marolcksheim
Fessenheim
Vogelgrün
Kembs
France
TRCM Major Order
Five TCRM-G are delivered to France for EDF.

1984
Introducing
Rope Type System
Worldwide Expansion
First Kuenz TCRM starts operation outside of Europe.

2001
Introducing
Hydraulic Machine Series
TRCM-H4000
Largest TCRM to date starts operation in the United States.

1986
Atakpamé
Nangbeto Dam
Togo, Africa
TRCM-G
First heavy-duty TCRM-G type machine

2004
Wilbur D. Mills
United States
TRCM-T
Kuenz delivers first cleaning machine for horizontal trash racks.

1992
Ryburg Schwörstadt
Switzerland
TRCM-M
Launch of first fully automatic Kuenz TCRM.

2013
Rüchlig
Switzerland
TRCM-H200
Introduction of first modular system for hydraulic cleaning machines.

1992
Langweid
Germany
Worldwide Expansion
First Kuenz TCRM starts operation outside of Europe.
At intakes of hydroelectric stations accumulated debris can disturb operations and decrease plant efficiency. With more than 50 years of experience Kuenz provides customized debris handling solutions for efficient plant operation.
Hydraulic Trash Rack Cleaning Machine

Designed to Handle Various Debris of all Shapes and Sizes

- Aquatic plants and grass
- Leaves and small branches
- Large branches and logs
- Three-part cleaning rake
- Sediment

Optional orange peel grapple

Rope Type Trash Rack Cleaning Machine

- Swivel rake
- Gripper rake
- Debris push rake
- Hydraulic jib crane
- Sediment

Hydraulic jib crane

TRCM-G85 Verbois, Switzerland

TRCM-H500 Lavey, Switzerland
Hydraulic Trash Rack Cleaning

Efficient and Versatile

Heavy duty design, high removal capacity and versatility characterize hydraulic trash rack cleaning machines.

- Cleaning depth up to 110 feet | 33 meters
- Lifting capacity up to six tons
- Highest flexibility in operation
- Versatility in debris and sediment removal
- Manual or fully automatic operation
- Automated surface debris removal
- Constant pressure on trash racks ensures best cleaning results
- Direct handling and removal of oversized debris
- Handling of stop log or trash rack panels optional
- For intakes with depths greater than 110 feet | 33 meters customized solutions can be offered
The concept of cable operated trash rack cleaning machines has been utilized for decades in the hydro industry. Kuenz continuously developed this technology and offers a state of the art cable trash rack cleaning machine series.

- For intake depths up to 330 feet | 100 meters
- Lifting capacity up to 8.5 tons
- Proven cleaning rake design for best cleaning results
- Suitable for narrow deck spaces and to replace existing equipment
- Decades of operation experience
- Reliable and durable design
- Low maintenance cable technology
- High cleaning speed
- Manual or fully automatic operation
- Removal of surface or oversized debris with hydraulic jib crane
- Customized solutions based on a modular approach
Fish and environmental protection are vital issues at hydroelectric facilities. Kuenz added the horizontal trash rack cleaning machine to its portfolio to meet these requirements.

- Horizontal trash rack and cleaning systems are designed to facilitate compliance with fish protection requirements
- For intake depths from 12 feet | 3.5 meters to 26 feet | 8 meters
- Lateral cleaning force up to 3 tons
- Fully automatic debris disposal by sluice systems located at the end of the trash racks
- Integrated hydraulic jib crane for removal of large branches and logs

Site-specific add-on equipment for lifting or debris disposal complete the Kuenz trash rack cleaning system approach.

**Lifting Systems**

- Stop log handling - Hydraulic Type
- Stop log handling - Rope Type
- Auxiliary crane

**Debris disposal**

- Intermediate storage and container
- Integrated intermediate storage
- Push out container
- Attached container
- Debris sluice way
- Debris trolley
Integrated System Provider

In addition to multi-functional trash rack cleaning machines Kuenz also furnishes hydro-mechanical equipment such as trash racks, stop logs and gates. Integrated systems of trash racks and trash rack cleaning allow optimization of the interface for best cleaning results and cost efficient solutions.

Custom Solutions

Challenging site conditions or special applications ask for custom solutions. Kuenz TRCM-S systems are site-specific designed to ensure efficient debris removal at any intake.

TRCM-S Machines

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Facts

• Established in 1932
• In-house design and fabrication
• Market leader for Intermodal Container Cranes in Europe and North America
• Global market leader for automated Tankhouse Cranes
• Expert for Hydro-Mechanical Equipment and Trash Rack Cleaning Systems
• ISO 9001-2008 certified

Gamp, Austria
Halsey Afterbay, CA, United States
Omkareshwar, India
Narragansett, RI, United States
Forrest Kerr II, B.C., Canada
Wells Dam, CA, United States