

## MULTI RAKE SCREEN

### KHU KN

#### Flat-Bar Technology with Super-Fast Automatic Cleaning

##### KUHN KHU KN Multi Rake Screen

ideally combine the advantages of standard multi rake screens with the properties of rakes having flat, inclined separation surfaces.

The **KUHN** KHU KN has been designed especially for use in pre-existing flumes. It is particularly suitable for hydraulic problems involving accumulations of screenings with very high impact forces. Due to the precise forced engagement of the rake combs, the common difficulty of blocked rake bars, which frequently occurs with the utilisation of scraper systems, can be reliably avoided.

The usage of an arbitrary number of clearing bars results in a considerably faster cleaning speed, which is especially important for handling accumulations of screenings with high impact forces, which, for example, can occur frequently when flushing channels after dry periods.

The **KUHN** KHU KN differs in structure from other multi rake screens with its flat, inclined separation surface, this normally being set at an inclination angle of 30-40° to the horizontal. Virtually all standard flume widths and flume depths can be covered (dependency on design).

Hydraulic head loss has been further reduced through the use of flowoptimised profile bars. Here, maximum stability always has to be weighed against optimised flow properties. A number of slot-screen profiles with different bar thicknesses are available. Generally, rake bars which are "rejuvenated" in the outflow region have proven to be effective.

Through the use of the specially designed rake combs together with the rake bars, a new type of screen grating with excellent selfcleaning properties has been developed. In case of sudden overloading or jamming of the clearing bars (due to stones, bars, etc.), the machine automatically responds by switching its direction of rotation - possibly more than once - so that the normal mode can be recovered without any faults.



#### Technical Features

The superior design of our **KUHN** KHU KN multi rake screens ensures optimum operation in terms of environmental-friendliness and costeffectiveness, as well as long-term security of your investment. The beneficial features include the following:

- Suitable for very large hydraulic heads and flume widths
- Maximum separation capacity
- Additional clearing bars for flushing and rain flows can be retrofitted to the machine
- Two different speeds for clearing are possible (optional feature)
- Extremely high cleaning speed of screen surface
- Segmented rakes (made of hardened materials) can be easily replaced
- Drive chains made of hardened stainless steel (optionally steel chains)
- Stable screen frame made of folded profiles with optimised strength characteristics
- Fully-automatic scraping device
- No brushes
- No washing water consumption
- Temporary reverse running for self-cleaning of screen grating is possible
- Guided engagement of clearing bars
- Overload protection protects the machine against damage
- Simple retrofitting for existing structures
- Simple maintenance



# MULTI RAKE SCREEN KHU KN

Flat-Bar Technology with Super-Fast Automatic Cleaning

**Scraper, fully-automatic**

**Drive with overload protection**

Optimum design for every application case

**Hygienic covers, removable**

Guarantee complete odor and hygienic encapsulation

**Rod profiles**

- For maximum throughput capacity
- Freely-selectable gap width for every application

**Eco bearing mount**

Continuous lubrication reliable and maintenance-free

**Large-volume discharge hopper**

Simple and safe transfer of screenings

**Space for the optimal Window**

**Service hatch**

**System frame, stainless steel**

Optimum adaption to every screen flume

**Rake**

- Segmented, rake comb boards in hardened materials
- High penetration depth enables clogfree and optimum purification results

