



Chains and sprockets for dams and locks

Industry Solutions



KettenWulf global



The main factory in Kückelheim not only houses the company headquarters, but also the KettenWulf Engineering Centre. Here we provide worldwide support for customers in all technical issues.

Kückelheim, with a production area of 30,000 square metres and a staff of roughly 550, is the largest production facility of the worldwide KettenWulf Group.

Top Left:
Our central
European storage
and sales facility in
Ghent, Belgium



Top Right:
Production and sales
facility Ferlach, Austria



Bottom left:
The Chinese production
and sales facility in
Hangzhou



Bottom right:
Production and sales
facility in Atlanta, USA



For over 85 years, KettenWulf, as an expanding global company, has stood for quality, reliability and flexibility. More than 1200 employees develop, produce and market customized solutions in the field of conveying and drive technology at ten locations across Europe, America and Asia. All around the globe, KettenWulf is your strategic partner when it comes to delivering optimal product quality.

Be it the Sauerland, Hangzhou, Atlanta or Pune – as an international company with worldwide operations, our employees are always at your service to meet your unique business needs and to provide you with industry leading technical support.

Trust, loyalty and commitment – these values are what KettenWulf stands for. As a medium-sized, family-run company, cultivating a strong, personalized partnership with both our customers and suppliers is our highest priority.

Standard link chains

In the hydropower industry, standard link chains are used on dams to operate the tainter gates or on water gates to move the gates of the lock-chambers, allowing vessels to pass through.

In the majority of cases, custom installation is required for the project. Our customized products are perfectly engineered to satisfy the technical requirements.

Illustration 1:
Link chain with pear-shaped end-link and hump link plates, breaking load: 1950 kN



Illustration 2:
Link chain with three bearings inside and axial lock above splitted discs and securing link, breaking load: 7400 kN



Illustration 3:
Link chain with anti-corrosion coating, breaking load: 3300 kN



Illustration 4:
Link chains with three bearings inside and wear bushings, breaking load: 1500 kN



Corrosion-protected link chains with self-lubricating slide bearings

Protecting the environment has come to the fore-front in the design and modernization of installations. Our customers are increasingly using "maintenance-free" chain technology. KettenWulf is the undisputed leader in this sector and offers two types of chains:

Chains with fixed pins and chains with floating pins. Both are produced from stainless steel and their link plates are fitted with self-lubricating bushings.

These chains do not need to be relubricated and do not require additional maintenance work. Their use allows product service life to be extended and contributes to a reduction of maintenance costs as well as a reduction in pollution caused by lubricants.

Illustrations 1 + 2:
Link chain with
pins locked by a
screwed-on plate



Fixed pin chain technology: Pitch holes of the inner link plates are bushed with self-lubricating slide bearings. The pin turns in the inner link plates.

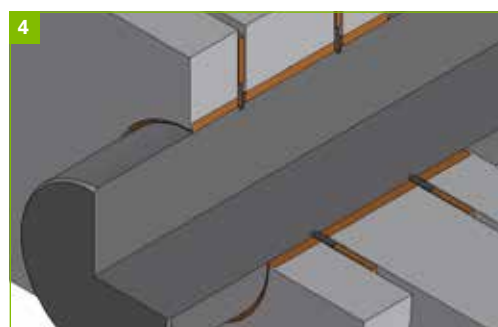


A horn plate protects the pin in the outer link plates against turning and locks them against axial movement with a screwed link plate package. Assembling and disassembling can be implemented easily.

Illustrations 3 + 4:
Link chain with
floating pin



Floating pin chain technology: Pitch holes of the inner and outer link plates are bushed with self-lubricating slide-bearings.



The pin can turn in the inner and outer link plates which affects the wear properties positively when the chain arrives the sprocket. The axial lock of the link plates is provided by splitted discs and a screwed link plate package.

Sprockets, shafts and pinions

Sprockets are the key factor for the smooth operation and long service life of each chain system. Based on this fact, KettenWulf manufactures its own sprockets and shafts with an anti-corrosion treatment, and upon request in stainless steel. In order to optimize product service life, we only use high quality materials and state-of-the-art production machinery.

Induction hardening and heat treatment of the gear teeth guarantees a high level of resistance against mechanical wear and thus a maximal service life. We also supply fully assembled shafts and spindles ready to be installed.

Illustration 1:
Sprocket with
bronze bushing



Illustration 2:
Triplex sprocket



Illustration 3:
Drive sprocket with
shaft, cut from the solid



Illustration 4:
Sprocket drive shaft



Illustration 5:
Pinion gear



Illustration 6:
Pinion rack for forging
manipulator



Quality and service

The satisfaction and trust of our customers are the basis of philosophy of the KettenWulf Group. To guarantee constant production of top quality products, KettenWulf has implemented a certified Quality Management System according to the strict directives of standards DIN EN ISO 9001:2008 which are applied in all production management processes. From obtaining raw materials to final inspection, all standards are implemented in order to provide absolutely reliable products.

- » Design conforms to German standard DIN 19704-1
- » Inspection at our premises
- » Verification of clients chain and sprocket drawings
- » Certificates 2.1, 2.2, 3.1 and 3.2 with dimensional checks, hardness values and raw material
- » Charpy toughness test (between -20°C and 20° C)
- » Fatigue strength test of the chain elements

Illustration 1:
Breaking load test
up to 3000 kN
site checks



Illustration 2:
Lubrication by
submerging in
a special oil bath



Illustration 3:
Technical on
site support
during installation



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