Anti-Backbend Chains for Medical Applications

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iwis drive systems introduces anti-backbend chains for medical applications. Flexible in only one direction, anti-backbend chains are used for pushing loads and can bridge larger gaps without guidance system. Developed to customer specifications, the chains are used in a variety of applications, for example in adjustable operation chairs and hospital beds or in mixing units for dental impressions.

Anti-backbend chains have a compact design and can transmit tensile and compressive forces over longer distances without the need for a guidance system. They perform a similar function to linear drives, eliminating the need for an endless, circulating chain drive. The side- and backbend capability is individually adjustable within certain limits. The chains can be made in a range of sizes and configured for various drive concepts, also with larger strokes and axle spacing. They are available in various materials with a range of surface finishes and lubricant to meet different medical and technical requirements, such as corrosion resistance.

iwis develops anti-backbend chains to customer specifications and in close co-operation with users. In its own research and development facility iwis researches the factors affecting chain geometry and assembly techniques on the chains' technical characteristics. The results are then incorporated into the chains' design. In addition to medical applications anti-backbend chains are used in conveying systems, building services engineering and machine tools.

Anti-backbend chains are available under the Jwis, Eurochain and Elite brands. In addition to anti-backbend chains, iwis provides a full product range for all drive and conveying applications. The iwis Group's programme for industrial applications comprises precision and high-performance roller chains, conveyor chains, maintenance-free and corrosion-resistant chains, accumulation chains, special-purpose conveyor chains, flyer chains, flat-top chains and modular belts, chains for agricultural machinery, as well as timing drive systems for the automotive industry.

For more information, visit www.iwisusa.com [1].

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[1] http://www.iwisusa.com/