

A GUF for all purposes

An overview of the diversity of mk's belt conveyor variants.

With the rise of industrial automation, belt conveyors have taken on most of the transport tasks involved in production processes. Nowadays, wherever you look, you'll find belt conveyors in all different designs and versions.

Belt conveyors are suitable for almost any industrial application in which piece goods are to be transported without any particular requirements in terms of their orientation or positioning. All different shapes and dimensions, packaged or unpackaged, light or heavy, can be transported using a belt conveyor.

For these applications, mk offers a huge range of standardised, modular belt conveyor systems, also called GUF. The design options are virtually unlimited: any width from 50 mm to 2 m, any length from 300 mm to 20 m, loads of up to 350 kg, and speeds of up to 80 m/min.

Thanks to a compact design using aluminium profiles, the conveyors are easy to integrate into existing production lines, even complex ones, and to adapt as necessary. The profile system makes the design highly flexible, and lateral profile grooves provide ample options for mounting attachments and accessories.

In addition to straight segments, belt conveyors are available in double-line, inclined and curved versions. Special designs are available for clamping, scanning, vacuum and magnetic applications.

The right system for any application

mk developed a standard straight belt conveyor in the mid-1970s. Today, innumerable further developments later, it forms the heart of the portfolio of mk conveyor technology. Over the years, versatile belt conveyor series of all different sizes and weight classes have been created. The perfect conveyor can be configured for virtually any type of goods, transport or environmental conditions.

Small Conveyor GUF-P Mini – The smallest series, GUF-P Mini, is particularly well-suited to transporting and separating small components with low volumes and weights. It is available in widths of 75 to 150 mm and in lengths of 360 to 5,000 mm. Thanks to its minimal installation height, this conveyor is ideal for use in complex systems where space is at a premium. Since the belt recirculation is integrated in the conveyor frame, the conveyor can be placed directly on the machine bed.

Compact Belt Conveyor GUF-P 2045 – The extremely compact GUF-P 2045 series is perfect for integrating into systems with limited space available for installation. The ø 50 mm drive roller combined with the weight-optimised, 45 mm tall conveyor frame profile produces a conveyor that is extremely flat and without any obstructing edges. A total permissible load of 15 kg accommodates most of the products typical in the packaging and injection moulding industries.

Versatile Belt Conveyor GUF-P 2000 – The GUF-P 2000 series is the all-rounder for light- to medium-weight goods based on the mk 2000 profile. It is extremely versatile thanks to the large assortment of available drives, tails, stands and belt types. This series is characterised by a low height of 50 mm and a compact ø 53 mm driving roller as well as a wide variety of different belt types. Furthermore, the system is available with an optional stationary or rolling knife edge.

Sturdy Belt Conveyor GUF-P 2041 – Based on the mk 2251 profile, the sturdy GUF-P 2041 series was developed for high belt loads of up to 150 kg and for conveying goods up to 1200 mm wide. It uses an 85-mm driving roller that affords highly efficient transmission of the motor's power. The series is available with a virtually unlimited selection of different belt types, including designs with cleats and side walls, and numerous combinations of drives, tails and stands, with knife edges and drum motors as options.

Heavy Belt Conveyor GUF-P 2004 – The GUF-P 2004 is the largest series, based on the mk 2004 profile, and features a 105-mm roller. Capable of handling a total load weighing up to 200 kg and measuring up to 2,000 mm wide and 20,000 mm long, this torsion-resistant conveyor frame provides easy transport of particularly heavy loads and bulky goods. It can be complemented with accessory components such as side rails and stands.

Double Belt Conveyor DGF-P 2001 – The dual-line DGF-P 2001 series is particularly well-suited for transporting small work piece pallets. It's very small idler rollers allow it to transport even short pallets, for example those used in assembly systems in the electronics industry. The belt runs entirely on wear strips, which allows for a maximum weight of 15 kg per section.

To find out more about mk's conveyor range please visit www.mkprofiles.co.uk, call (01949) 823751 or email info@mkprofiles.co.uk.