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Even better than the AZ 2004: the motorised AZ 1040 timing belt drive replaces the Uhing bestseller

When you are looking for a robust and powerful timing belt drive that also is a paradigm for successful industrial design, you cannot help checking out the Joachim Uhing KG portfolio. You will find an innovation launched by the internationally renowned engineering company: the motorised AZ 1040. It succeeds the tried and tested AZ 2004 the company based at Mielkendorf has been selling since 1991. The new timing belt drive was developed for all applications in mechanical engineering.

The AZ 1040 has the potential to quickly take the place of its predecessor in the Uhing product range and to become the bestseller. Even at first glance, it convinces by its design, giving you an idea of optimal applicability: the one-piece profile with integrated carriage guide allows for greater free stroke lengths than were possible with AZ 2004.

Compared to the predecessor model, several installation and attachment options were added to the AZ 1040. For this purpose, head pieces made of the same profile as the drive itself were integrated. The T-slots are integral part of the profile and facilitate mounting of additional attachments. Slide blocks can be inserted laterally.

Like all Uhing timing belt drives, the AZ 1040 is made of a bend-proof and torsion-proof aluminium profile. A belt lock fastened to the roller-mounted load carriage transmits the power from the timing belt to the load carriage running on round, corrosion-proof and hardened guide bars mounted on the aluminium profile.

Uhing offers the new timing belt drive as a complete preassembled unit with motor, making assembly and installation fast and smooth.

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The AZ1040 proves to be particularly practical because its motor can be mounted in several positions. This feature more or less excludes space issues design engineers have often to deal with when integrating such units.

During operation, the AZ 1040 proves to be particularly robust and powerful. The carriage covers a distance of 200 mm per shaft rotation. The motorised drive features a maximum traversing speed of 5 m/s and an idling torque of 0.7 Nm. The dead weight of the drive for a stroke of 0 mm is 9.1 kg, the weight per 100 mm stroke is 0.9 kg. The carriage weighs 2.3 kg.

The wide range of accessories for AZ 1040 comprises: a coupling shaft assembly, motor cones, overload slip clutches, elastic couplings, rotary encoders, cable chains, guide units for multi-axis systems, and position read-outs. Special accessories available for AZ 1040 are: proximity switches, wipers, lubrication and wiper unit, increased corrosion protection, an enclosure, and carriages with special threads. This shows that, when developing new products, Uhing not only considers technological progress as such but also the requirements of the design engineer with regard to unit application.

We know that all good things come in threes. This also holds true for the AZ 1040: Apart from the technical optimisations and the modern design, customers currently also profit from the 30 percent price reduction for the timing belt drive. – For the demanding design engineer, there is really no way around the AZ 1040 made by Uhing.