

Set collar specialities



Set collar is not the same as set collar – Elessa+Ganter offers more than standard, also among the rather unspectacular standard elements.

Set collars are still indispensable in modern mechanical engineering and plant construction projects: they secure axes and shafts, serve as fixed stop or as attachment option for additional functional elements such as limit switches. A multi-functional element, as it is, found in Elessa+Ganter's product range in a number of different embodiments.

The simplest design is version GN 705, basically complying with DIN 705 and made of blackened steel. If better quality grades are called for, versions made of stainless steel or corrosion-resistant, galvanised steel are the elements of choice. The same is true for the grub screw which Elessa+Ganter also offers in the traditional split variant, but recommends in the more rugged variant with DIN 914 hexagon socket with better fixing properties.

While the fixing grub screw in standard set collars acts directly on the shaft and puts the surface under stress, the semi-split set collar GN 706.2 has no such damage potential. With the help of a grub screw featuring a hexagonal socket, the slot height is reduced such that the whole of the inner surface of the set collar creates a form-locking bond with the shaft. Unlike in the standard set collar, this configuration allows high clamping forces and higher safety levels. The same clamping principle is used in the threaded set collar GN 706.3, whose inside surface features a thread ranging from M8 to M30. One very special derivative is the set collar GN 706.4 which is also split, although the clamping force is generated by a clamping lever tightening the assembly without the need for tools.

Essentially the same feature also characterises the latest member of the set collar family: the quick release set collar GN 704 which functions without a big clamping lever. The element is slackened and tightened with a relatively small, yellow passivated handle which integrates itself with form-locking effect when fixed. Made of aluminium, the set collar reduces the mass moved and therefore the inertia of the rotating assembly.

If a set collar cannot be mounted – or pushed over the shaft – in axial direction, the first choice would be the GN 707.2 set collar. This split set collar is assembled via two cylinder head screws and wedged against the shaft.

Find out more at www.elesa-ganter.com

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