

Standard Parts. **Ganter.**

Press Kit





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www.ganter-griff.com

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Press Release
11.2015



Photo: Top GN 817.8, GN 817.9 below

Indexing plungers for self-adjustment

Ganter has produced standard indexing plungers for over 30 years, the same period of time in which the market leader looks back on customised solutions in a wide variety of different designs. The special “adjustable” indexing plunger is now also available as standard element.

Prototype designers and special machine builders are familiar with the dilemma: A seemingly trivial element suddenly causes problems because it is needed in a highly specific shape or dimension. If this involves an indexing plunger, Ganter can realise individual requirements such as these without any problem – although only with a certain economy of scale.

To help its customers nonetheless, Ganter now offers the indexing plungers GN 817.8 and GN 817.9, two elements for customisation starting from unit quantities as small as 1.

The first feature open to adjustment is the useful length of the indexing pin and the shape at its tip. Blunt, conical, ball-shaped or threaded, these are just some examples of the appearance of the indexing pin. Besides the option of adapting the stainless steel pin supplied with the assembly, self-made plungers can also be integrated, for instance when hardening needs to be done in addition. The pin is mounted with a countersunk screw passing through the knob, with the effect that the pin can be exchanged or optimised any number of times.

Special in the standard design – this standard element adapted for individual solutions can be scaled up relatively quickly. In principle identical with the standard indexing plungers GN 817 and GN 817.1, special designs on this basis can so be made in larger and therefore more economical unit quantities – for example in cases where a prototype is to evolve into a volume product.

Several design variants of the indexing plungers are available for each standard: With or without indexing lock and with pin diameters ranging from 7 to 12 mm. The indexing lock is important if the pin is to be fixed in the retracted position – turned by 90 degrees, the knob then safely engages in the guide notch.

Find out more at www.ganter-griff.com

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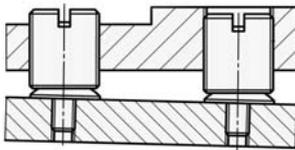
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Press Release 10.2015



Level-headed

Levelling is now even easier, faster and more compact: thanks to the sophisticated GN 355 element made by Ganter.

Levelling and compensating elements have been around for a long time. With the GN 350 levelling sets, Ganter has for many years offered modular levelling pieces in various sizes and dimensions. The GN 355 is now an entirely new and much more compact levelling element which clearly makes the levelling adjustment of machines, plant components, handling units or assembly lines a great deal easier. Especially in places where only very little installation space is available, the new element is the ideal choice because the mounting height is extremely low.

The levelling element consists of a slotted levelling screw with an outside precision thread M 12 to M 36, a DIN 6319 ball-type disk as base and a cylinder head screw with internal hexagon plus a washer.

Easy to use: first, cut the appropriate through thread into the plant component to be adjusted to hold the levelling screw, with the contact surface underneath also receiving a taphole for the fixing cylinder head screw. Use the GN 355.1 assembly tool, which is either driven by knurl or hexagonal bar, to turn in and adjust the levelling screw. While adjusting – virtually during the same work cycle – use a box spanner or an offset spanner to tighten the hex socket head screw. This can be done because the assembly tool has a centric through hole. Tightening means that the levelling screw sits on a cone and is spread over the ball-type disk underneath, accomplishing a safe wedging effect in the flanges of the retaining thread.

No additional countering is necessary – the GN 355 levelling element alone handles the adjustment, securing and fixing of the adjusted plant component.

This configuration ultimately generates a backlash-free and infinitely repeatable installation with adjustment in and on the smallest of spaces.

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Press Release
09.2015



Set collar specialities

**Set collar is not the same as set collar –
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 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 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. This variant is especially advantageous in applications requiring frequent slackening of the set collar.

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.

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Press Release
08.2015



Gripping and locking

There are applications where doors and other openings need to be both locked safely and operated easily and conveniently. Ganter also has a function-integrated solution for these: the GN 115.10 latches with gripping tray.

Two functions in a single element – reducing the number of parts and therefore the costs for procuring and assembly and making the use easier. The Ganter standard part GN 115.10 combines the locking function with a gripping tray, ensuring that different models of doors can be easily and conveniently closed and opened.

The standard part is made up of two elements: the front frame made of robust, plastic-coated zinc die casting including a latching mechanism and a plastic recess moulding, attached tamper-proof from the rear of the latch with screws to the mounting opening. The front frame is flush with the outside of the latch, the latching mechanism points to the inside. A 90 degree turn locks the latch in place, with the actual latch with its run-up bevels making it easier to close and open the door and being available for latch distances ranging from 4 to 50 millimetres.

To cover every conceivable mounting situation, there is also a choice between a “left” and a “right” design version whose latches are turned clockwise or anticlockwise for locking.

The actual locking function requires a key (GN 119.2) in tried and tested triangular, square, slot or two-way key bit design – or by proper key. This design variant not only allows the door to be latched, but also to be locked by key. Depending on application, locks with uniform or varying locking functions are available.

This seemingly simple and uncomplicated standard part impressively shows the enormous variety of designs which is necessary to cover as many specific needs and requirements as possible. Market leader Ganter masters this art in its unique way and supplies every design version in the shortest possible time.

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Press Release
06.2015



Levelling feet à la carte

They carry valuable loads, they balance out machinery, and they ensure the necessary ground traction: Levelling feet are among the most important standard elements with a wealth of design variants.

Faster thanks to a new system

With around 5200 variants, Ganter today offers an enormous diversity of this species of indispensable standard elements, ranging from simple steel feet right through to elements meeting the ultimate in hygiene requirements. Having grown historically, the system – and with it the clearness – soon came close to its limits. The solution: a new system which gives you more transparency and which makes the search for the best levelling foot faster, simpler and easier.

Base footplate

From now, you can compose your very own modular set of levelling feet - starting from the footplate which is available in ten standard variations with new two-digit standard numbers, differing in geometry, material and fixing option. Additional variants for each footplate include embedded or vulcanised rubber pads.

Free choice of spindles

The second level of choice relates to the spindle design with thread size and nominal length, and to one of six possible spindle types. This guarantees the best possible match with constructive requirements, starting with the straightforward S variant with external hexagon below, via the T version with two flats in the thread for key attachment, right through to the hygiene design W with an adjustment sleeve for covering the threaded section.

This means that virtually every footplate can be combined with virtually any spindle. All these variables are clearly mirrored by the Ganter article number which can also be used straight off for ordering.

New and reliable footplates

Ganter has taken this opportunity to launch two new-elegantly shaped footplates (designated as GN 21 without and GN 23 with fixing holes). Both variants have been lathed from non-rusting stainless steel and are available with or without embedded rubber pad.

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Press Release
04.2015



Always well-balanced

Spirit levels are small and inconspicuous - but important little helpers. When a machine, a tripod or an assembly point is to be aligned with precision, the grand entrance of these standard elements has come. This is why Ganter has included these elements in its range of products.

If precision is called for, the accurate horizontal alignment and orientation of production plants, measuring instruments, adjustment units or assembly elements is crucially important. Integrated spirit levels allow objects "to be levelled out" with ease, and the exact position can be checked later at any time and at a glance.

The way **spirit levels work** is simple: a hollow body accommodates a fluid and a gas bubble, with the bubble always floating by its buoyancy to the highest point.

In **screw-on levels** this effect is accomplished with a slight curvature of the cylindrical body. If the gas bubble is located between the two linear markings, the object is aligned horizontally in one direction. The two-dimensional alignment therefore needs two screw-on levels turned by 90 degrees – or a bull's eye level.

A **bull's eye level** shows the position of the object in two directions at the same time: once the gas bubble is situated in the middle of the centric circular marking, the horizontal position is reached.

Ganter has now included these universal and indispensable adjustment aids into its standard product range – as screw-in levels with one, two or three sight glasses, and as bull's eye levels in various different designs. For instance as top-mounted threaded assembly, countersunk with threaded flange, for insertion into bore holes, for top-attachment with or without threaded, or as simple spirit level elements. And there are also the adjustable bull's eye levels with a central alignment ball at their base and three threads. The level is adjusted by the target-specific tightening of the three mounting screws. All bull's eye levels are made in black or natural colour aluminium, while the screw-on levels are manufactured of powdered brass.

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Press Release 03.2015



Hinge with brake

The free and easy movement of doors, flaps and other covers is not always desirable – to open or close these elements, using greater force is sometimes the better option. Ganter has therefore fitted its GN 437 hinges with adjustable friction for precisely this purpose.

The zinc die cast GN 437 hinges come with two slim friction cones made of polyacetal (POM) which are pressed into the conical swivel range of the hinge by means of an axial set screw. The friction of the hinge can so be changed by tightening or slackening the set screw counter-locked with a long nut.

The braking torque remains constant across the whole 180 degrees swivel range, preventing the inadvertent closing or opening of doors, hatches or flaps. The large friction surfaces and the low-wear polyacetal used for the friction cones interact to ensure a long service life of the element.

Particular mention may be the standard connection dimensions. The new friction hinges can easily be attached, for example, with the holes of GN 237 and replace of course the standard sizes 40, 50 and 60 mm. Naturally, the attractively designed hinges also comply with RoHS.

Incidentally, the GN 437 hinges are also suitable for applications calling for a high degree of precision: the friction cone principle ensures that the radial motion and the movement in the axis of the hinge are free of play.

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Press Release
02.2015

Powerful position holders

It's often the small things in life which make work easier, more accurate and more efficient – for instance Ganter's setting elements fitted with retaining magnets.

Actually, setting bolts and grub screws are hardly worth talking about – actually. Even these small standard elements used in their millions have now been redesigned by Ganter to match their purpose even better.

By holding a small neodymium magnet inside the hexagonal screwhead, the GN 251.6 setting bolts not only help in the precise positioning of metal workpieces, they also fix these in place reliably. Next to more simple and faster handling, this also means greater precision during machining – and hence savings in time and fewer rejects. They also come with a lock nut to secure the setting bolt itself.

The neodymium power midgets are also found in the GN 913.6 grub screws with thread sizes ranging from M6 to M12 and one-sided hexagonal recess. The advantage of this standard is that it can be screwed consistently thanks to the threaded pin shape and thus can also be used in places where space constraints prevail.

The advanced development of this element utilizes the magnetic force amplifying effect of shielding by inference, which bundles the north and south poles of the magnet on the stop surface. Thermally stable up to 80°C and protected by the zinc layer against corrosion let these setting elements be used very versatile.

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Standard Parts. **Ganter.**

Press Release 01.2015

Fast and safe

There are indexing plungers and
indexing plungers -

**With the model GN 413, Ganter offers versions
with reposition and lockable lifting ring.**



Indexing plungers are the standard elements par excellence and allow the fast securing of movable machine components. With the standard element GN 413, Ganter therefore supplies the indexing plunger in four design variants. Thanks to the ergonomically shaped lifting ring, the plunger can be unlocked and released with just one finger.

Also, ropes or retaining chains can be easily attached to the lifting ring for an operation from a certain distance. As one more option, the lifting ring can be rotated by 90° after retracting the pin, securely locking the pin in the released position. The rotated ring itself is held in place by the related indexing notch.

All four variants of the GN 413 feature a continuous external thread, with variants AK and CK also offering an additional lock nut for adjusting the installation depth of the indexing plunger. While stainless steel is used throughout for indexing pin, thrust spring and lifting ring, the threaded socket (guide) is made either of blackened steel or stainless steel. Ganter so accounts for a wide variety of different applications.

And the fact that all variants are RoHS conforming is seen as a matter of course at Ganter.

Find out more at www.ganter-griff.com

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Ganter - the secret champion from the Black Forest

With over 50,000 readily available products, Ganter is the Number One specialist in standard parts.

Handles, hinges, handwheels, clamp handles, knobs or clamping devices - all these are components which are needed virtually everywhere, in mechanical engineering as much as in laboratories, in plant equipment and in the transport sector. Components, many of which come from the Black Forest, directly off the high-rise shelves of the market leader: Otto Ganter GmbH & Co. KG.

Established in Furtwangen in 1894 as a small mechanical workshop, company founder Otto Ganter hit on the idea in 1912 to standardize operating elements - years before the German Industry Norm (DIN) came into being. An idea thriving and growing into a sustained model of success: today, the family-owned company in its fourth generation is present worldwide and keeps on growing. Over 300 people at the company's Black Forest headquarters permanently develop new elements, manufacture with ultimate precision and quality and ensure the fastest possible shipping. 85 percent of all orders leave our plant within 24 hours - a speed which sets standards. And with over 50,000 available variants, Ganter offers an unrivalled range and variety of standard parts.

What became known as the Ganter Standard after its launch 100 years ago eventually turned into an indispensable feature in many engineering and construction offices - and with it the Ganter catalogue, showing the entire range of products with all their characteristics on around 1,300 pages in the most recent 15th edition. The Ganter catalogue has long been a much sought-after manual which has successfully helped and accompanied generations of designers and developers. And - this being the digital age - all the data are also available online and can be loaded into all common CAD programs.

If, by any chance, there is a standard part that you need and cannot find in the extensive range of products, the people at Ganter will set to work to close the gap and develop a customized solution. This is also one part of the story which has made Ganter into what it is today: a successful player on the international stage.

Find out more at www.ganter-griff.com