

PRESS INFORMATION

Construction / Mounting technique / Sheet metal processing

Quicker coordination during assembly

Supplier Georg Martin presents the new 0.10 millimeter shim



The new 0.10 mm M-Tech®L laminated shim is easy to peel and simplify the adjusting process.

The use of shims to compensate tolerance is one of the basic engineering techniques when constructing sub-assemblies. Georg Martin is now offering a new 0.1 mm shim for all cases in which precision in the hundredths range is not required. An economic alternative to fitting plates and washers in accordance with the standard DIN 988 is required in the fields of transmission, automotive, aviation and mechanical engineering in particular.

Dietzenbach, July 2010. The development and manufacture of shims for tolerance compensation are the strong point of supplier Georg Martin. The company serves customers on every continent, with its precision products and is still one of the only few manufacturers of laminated shims. In this area, Georg Martin has always pursued the intensive development work. The most recent result of these activities is a new laminated shim stock in

the product line M-Tech®L, which consists of individual foils with thicknesses of 0.1 millimeter. It is available in different thicknesses of aluminum (EN AW-Al99, 5) and stainless steel (X5CrNi18-10).

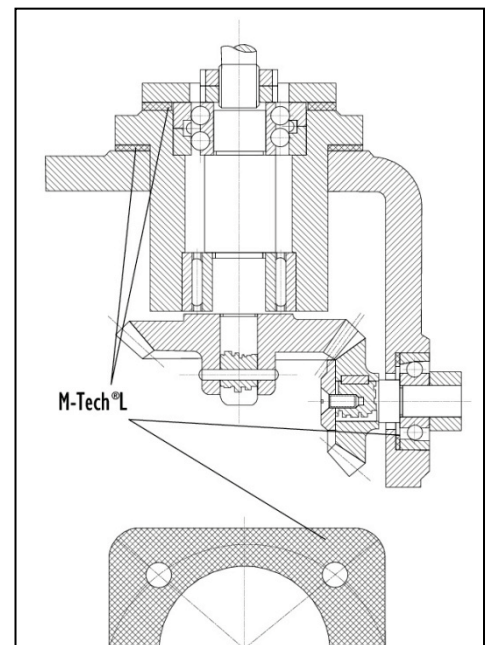
How "thick" can it be?

With film thicknesses of 0.1 mm, this shim may be one of the "thicker" ones in the M-Tech®L range from Martin (the company also makes laminated shims with a thickness of only 0.025 mm!), but it constitutes a very economical solution for compensating tolerances in numerous applications in the tenths of a mm range. It has proven to be a very economic alternative to conventional washers and fitting plates, especially when constructing sub-assemblies in transmission, automotive, aviation and mechanical engineering applications.

The new 0.1 mm shim from Martin helps engineers to reach their goal quickly wherever precision in the micrometre range is not required. This is mainly because the larger incrementation compared to a 0.05 mm shim makes it possible to achieve the desired precision with considerably fewer peeling processes. In addition to this, the new shims are very favourably priced because the number of precision films required is halved in comparison to five hundredths of a mm shims. Tolerances in mechanical sub-assemblies can be compensated very flexibly with the new 0.1 mm shims. What this means for production and maintenance is that processing times are reduced while delivery capacity and productivity are increased. The process optimization achieved in this way benefits the competitive ability of manufacturing companies.

Simplified Storage

The prerequisite for all of this of course is that the new M-Tech®L shims were used throughout the construction process. If they were, not only the fitters will be pleased but also the buyers and storekeepers, because only a much smaller quantity of multi-use shims has to be procured and stored instead of an often confusing number of different fitting plates and washers. This reduces search and sorting time and costs, simplifies parts lists, facilitates stock-taking and can help to avoid assembly downtime under certain circumstances.



The new 0.10 mm M-Tech®L laminated shim is used as tolerance compensation for bevel gears.