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PRESSE RELEASE

Supply system/ Construction/Aviation/Maintenance/ Drive technology/ Automotive construction/ Mechanical engineering

Peel faster and more reliably

MARTIN offering spacer elements made of a high pressure-resistant aluminium alloy AlMg2,5

When modern, lightweight principles have to be combined with increased demands on mechanical load-bearing capacity, laminated shims from MARTIN in the versions M-Tech®L, N and O are the first choice.

Want to adjust precise tolerances in the hundredth of a millimetre range without mechanical assistance? MARTIN offers peelable shims made of a special aluminium alloy to perform this task. The magnesium-enriched aluminium alloy AlMg2,5 not only has considerably higher strength than the commonly used base material Al99.5, it also gives the user a significant efficiency advantage, because the layers of these laminated spacer elements made from an aluminium alloy can be peeled off much more easily and 3 to 4 times faster. What this means in definite terms is that a sub-assembly fitter or maintenance technician only needs around 90 seconds for the reduction of a shim in increments of five hundredths from 3.22 mm to 2.05 mm, for example. Tolerance compensation by means of mechanical grinding or the constant availability of a selection of prefabricated shim rings in many different thicknesses usually requires considerably more time and effort in practical applications.

New tool increases efficiency

Another important factor that contributes to the more efficient use of shims made from a high-strength aluminium alloy is the new peeling tool developed by MARTIN. This special tool with the name "M-Tech® Peeling File" is an in-house development from MARTIN which is distinguished by a patented, spatula-shaped blade tip. This allows even unpractised users to get to grips with the laminated shims quickly and safely, because instead of a peeling knife, the "M-Tech® Peeling File" allows the user to pick the edge and remove the top film layer of each shim very quickly and easily.

The laminated shim variants made from a high-strength aluminium alloy have the designation M-Tech®L, N and O in the MARTIN portfolio. One of their many uses is in aviation technology where modern, lightweight principles often have to be combined with increased demands on mechanical load-bearing capacity in the construction of sub-assemblies. The reason for this is that these two laminated shims impress through their high elasticity coefficient which gives them exceptionally high compressive strength. The E module of the M-Tech®L-N variant with a film thickness of 0.050 mm, for example, withstands well over 29,000 N – and therefore has a much, much higher strength than a comparable product made of unalloyed stainless steel (EN10084). At the same time, the M-Tech®L-N is considerably lighter and also comes at a lower price than all peelable shims made from steel or stainless steel. The M-Tech®L-O version from MARTIN offers

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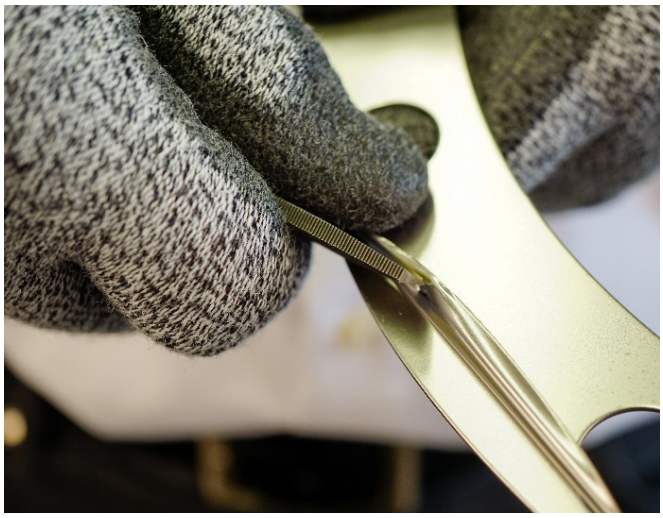
similar advantages.

Interest of mechanical engineers aroused

High-strength M-Tech®L shims from MARTIN are available in the film thicknesses 0.050 mm and 0,075 mm and overall thicknesses of 0.5 mm to 3.2 mm. Thanks to their special properties, they are no longer sought after exclusively in aviation technology but in more and more general mechanical and plant engineering applications too, with the manufacturers of drive technology components once again heading the field.

Georg Martin GmbH from the town of Dietzenbach is certified in accordance with the standards EN9100, ISO 9001 and ISO 14001 and has supplier approval from many companies, including Airbus, Airbus Helicopters, SAFRAN and Rolls Royce. Production complies with RoHS, PFOS and REACH requirements.



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