

With Pronic, automobiles can be lightened



With close to 30 years of experience, Pronic, world leader in in-die tapping and insertion, has developed a tailor-made solution for a well-known name in the automobile industry sector.

Olivier CLAUDEL
Head of Product Support



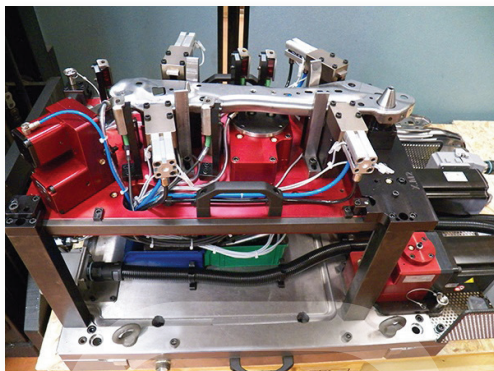
The challenge was historic. Working with a new material, with high elasticity and a reputation of being hard and resistant: « Dual Phase » DP 1000 steel. After several months of research and tests, the feat has been achieved. Pronic has met the requirements of this German automobile manufacturer in developing an innovative solution of tapping associated with the DURAMAX H TIN by BASS Corporation and a dedicated lubricant. A solution, which allows then a similar automobile part to be significantly thinner.

“ Due to « Dual Phase » DP 1000, we were able to use parts with a thickness of 1.5 mm instead of the previously used 2 mm, obtaining the same crash test results. ”
explains Oliver Claudel, Head of Product Support of Pronic.

Used on each side of the automobile seats, many of these parts are installed in a single vehicle. Due to the utilization of this new material, the car weight can be reduced significantly.

“ The threaded part, the tool, the process and the equipment were the subject of stressed analyses and optimizations. The collar was modified, the form of the taps first thread was modified upon and that is where the inner lubrication process was used. These measures allowed the increase of the lifetime of the tap up to 20, 000 parts. ”
explains Bass, Partner of Pronic

The results were clearly satisfying for the German auto manufacturer who immediately utilized this solution for the series production and duplicated it on other tools and parts.



Thanks to Pronic's expertise and that of its long-standing partner Bass, the process of In-Die tapping into a material as tough as DP 1000 has greatly improved in its effectiveness. This has been a great opportunity for Pronic to position itself in first place in the automobile market with regard to contributing to the reduction of the weight of automobiles.

BASS
TECHNIK FÜR GEWINDE

For In-Die Solutions,
Think PRONIC !

WITH PRONIC IN-DIE TAPPING SOLUTIONS, STEEL NO LONGER RESISTS

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