

Hybrid Coating Multitech

CARC + MGN Mixed technology

Hybrid Coating Multitech CARC-MGN: the new solution for Die Casting

Dear Customers,

we are pleasure to inform You that CRT has improved a series of coatings dedicated to the moulds world, with "HYBRID COATING" CARC – MGN technology, developed directly for Die Casting moulds and tools.

The actual coatings used in Die Casting field, *AlTiNmulti* e *AlCrN*, with their 8-10µm thickness, give an increase of double and more of the mould's life time, and again, they act as a termical shield and as non-reactive shield against corrosive attacks.

The New **Hybrid Coating Multitech** alternates two different kinds of PVD process: it is the combined deposition with Magnetron dispositive and CARC technology. The result is a optimal balance of adhesion and consistency of the coating, with real benefits in terms of roughness, friction coefficient and porosity of the coating.

You get a renewed ease of extraction of the moulded as well as a considerable reduction of the triggering of corrosion and detachment of the coating.

Ra µm AlCrN	
ST CARC+	Hybrid Coating
0,28	0,21

Ra µm AlTiNmulti	
ST CARC+	Hybrid Coating
0,20	0,18



Superficie - 50X

It is a new conception of coating: many users confirm the real increase in the average life time of the mould and its components, as well as a smaller number of production waste.

However, the best result we got it on start-up: the start-up of the mould is easier, thanks to the excellent compactness achieved by the hybrid coating



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