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Danish pioneer in surface hardening of stainless steel establishes a subsidiary in the US and opens a new treatment center in Ohio

Since the opening of the 6500 ft² production-, laboratory- and test center in Hillerød, Denmark, in 2013, Expanite has been experiencing rapid growth in the European markets.



During 2015, the company has seen a significant number of new customers in the USA and Canada, and it has therefore been natural to establish a subsidiary – Expanite Inc. – and at the same time open a new treatment center in Ohio.

Expanite can now offer its North American customers the same superior gaseous surface hardening treatment options as in Europe.

Customers can choose to have their material processed in our facilities in Ohio on a day-to-day basis or opt for a fully automatic solution installed

directly in their production line thereby eliminating the cost, logistics and risks involved in shipping the parts for hardening.



Expanite is also expanding its presence in North America by welcoming Christian Dalton as new North American Sales Manager. Christian Dalton has a Ph.D. in Material Science and Engineering from Case Western Reserve University.

With the addition of Christian Dalton, the opening of Expanite Inc and the new treatment center, the company is ready for the continued expansion of the Expanite's processes as the leading techniques for hardening of stainless steel.

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About the Expanite process

Expanite offers the best solutions for surface hardening of stainless steel and other high performance metals. With Expanite's processes for the curing of stainless steel, it is possible to increase the material's surface hardness tenfold while at the same time maintaining and even increasing the corrosion properties. This is unprecedented in the heat treatment and hardening of the stainless steel.

The Expanite treatment effectively removes the oxide film covering stainless steels. This allows controlled incorporation of carbon and nitrogen atoms in the underlying metal. The hardened layer is characterized by an interstitial hardened zone. We call this zone expanded austenite, expanded martensite, or simply, Expanite.

Unlike other technologies, this method does not merely coat the surface. The process goes into and beyond the surface to create a hardness profile with an optimal concentration of carbon and nitrogen. This significantly improves corrosion, galling, fatigue and wear-resistance according to the particular needs.

The whole process is clean and super-efficient. Contrary to alternatives, including plasma and salt bath based methods; the Expanite process leaves no soot or other residues on the hardened surface, eliminating the need for post cleaning.

About Expanite

Expanite was founded in 2010 and has a combined development and production facility near Copenhagen, Denmark and production facilities in the US and Germany.

www.expanite.com

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