

EVERLAST™

Ultimate Performance. Ultimate Value.

Everlast™ is a state-of-the-art, *proprietary process that alters the structure of the tool steel at the molecular level, creating a metal fabricating tool typically lasting 3 to 5 times longer than an “untreated” tool.

It can be used in *all* applications, including: stainless, AHSS and UHSS, Martensitic, cold rolled, rail, boron, and others. In addition, it can be applied to a wide variety of tool types—extending the service life of the tool.

Everlast™ is *not* a coating and *not* a heat treatment. It can be applied with or without additional secondary processes, such as coatings. It can be used with all Dayton punches, pilots, die buttons, special die sections, etc.

The end result: Slower wear rate, longer tool service life, more consistent part quality, more uptime.

Sharpen up!

Everlast™ does not alter the surface appearance nor change the machinability of the metal. Dayton punches, punch products, and cutting surfaces altered from Everlast™ are, in fact, easily resharpenable.

Severe applications

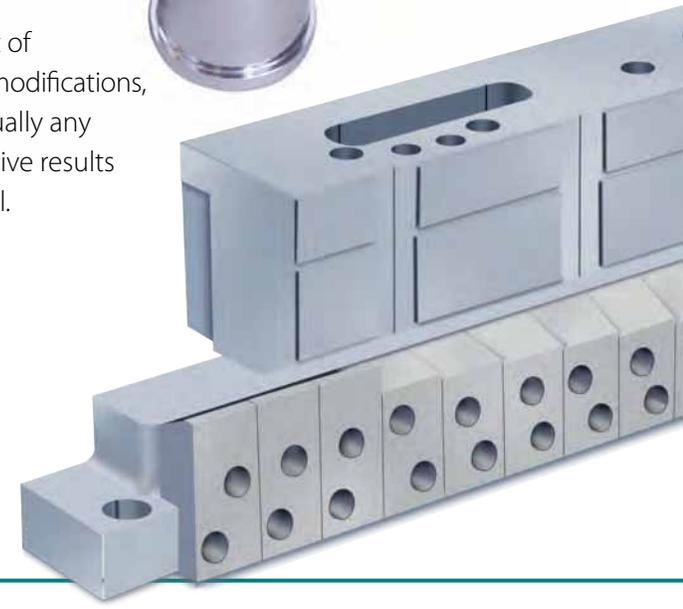
Everlast™ can be applied in processes and applications where the primary mode of failure is chipping, micro-chipping, and/or chipping leading to wear. (See test results in the center panel.)

Use with coating and other modifications

Everlast™ is an enhancement that is independent of secondary processes, including: coating, edge modifications, and heat treatment. It can be used with virtually any tool steel grades without affecting the positive results of the conditioning or treatment of the steel.

* European Patent #1985390. Mexican Patent #MX/A/2008/004014. North American and Asian Patents Pending.

Everlast™ can be applied to a wide variety of tool types and surfaces, extending tool life and reducing downtime.



3-5 Times the Normal Wear!

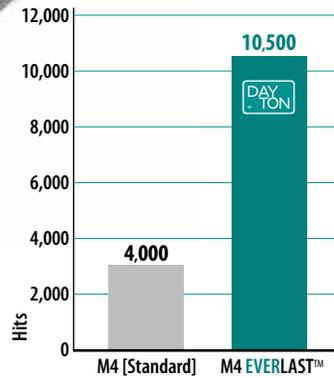
EVERLAST™

Stamp with Confidence

Problem: Chipping. Solution: Everlast™

Dayton Progress tested Everlast™ extensively through both real-world and laboratory tests—initially, to delay micro chipping in piercing tools. In addition to delaying chipping, tooling service life increased significantly, based on the stamping application.

Over an extended period, Dayton Progress field-tested more than 1,000 tools enhanced with Everlast™. The following are some of the results of those tests.



Perforating

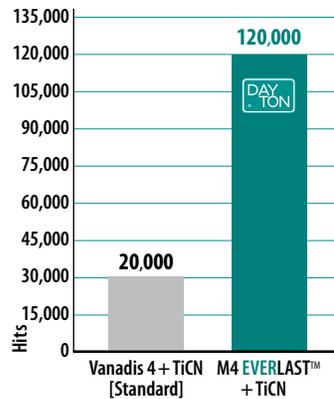
Part: Automotive structural safety component

Material: Boron

Thickness: 0.122"/3.10mm

Strength: 1550MPa (225KSI)

Existing Tools: M4



Drawing/Ironing

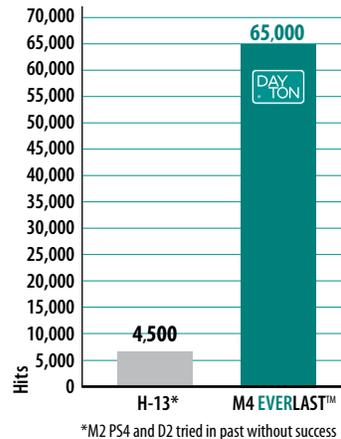
Part: Power train component

Material: CRS

Thickness: N/A

Strength: 700MPa (102KSI)

Existing Material/Coating: Vanadis 4 + TiCN



Coining & Extruding

Part: Flange

Material: HASL

Thickness: 0.153"/3.88mm

Strength: 620MPa (90KSI)

Existing Tools: H13



Independent confirmation of the benefits of Everlast™ was provided by the Ohio State University Engineering Research Center.

For complete test results, contact your Dayton Progress representative.