

Marine Industry



Problem

Stainless Steel = Very difficult to machine

- Very hard material.
- Tendency to work harden.
- Abrasive material.
- Cutting tool life can be drastically reduced.

Solution

Drilling:

Chicago-Latrobe® Cobalt Drills

Style: 550 & 550ASP

Cle-Line® Hex Shank Drills

Style: 1804

Cle-Line® TiN Tipped Drills

Style: 1501-TT

Threading:

Cleveland® High Performance Taps

Style: 960SP & 893SF

Cleveland® TiN coated Hand and Spiral Point Taps

Style: 1002TN and 1011TN

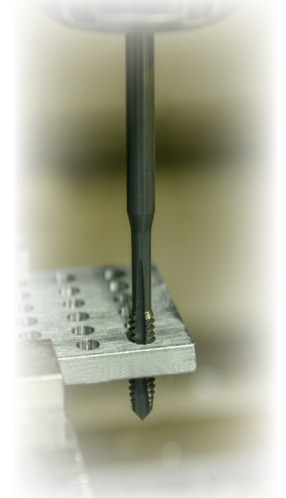
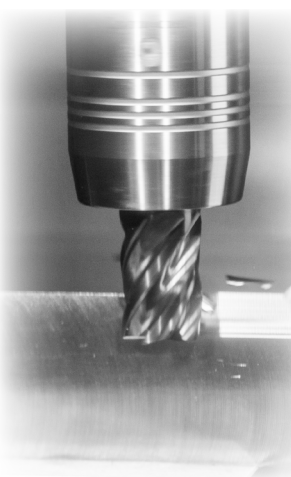
Milling:

Cleveland® Variable Index

Carbide End Mills

Style: CEM-V-4 & CEM-V2-5

See the
reverse side
for specific
product
solutions.



Greenfield Industries
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**Greenfield Industries will help you
save time and increase productivity
in your toughest applications.**





Greenfield Industries manufactures cutting tools for the Marine Industry in a large variety of sizes and styles.

Problem

Stainless steel is commonly used in the Marine Industry. These materials have a tendency to work harden, can be abrasive, and cause a reduction in cutting tool life.

Product Solutions

Drilling

Chicago-Latrobe® Cobalt Drills

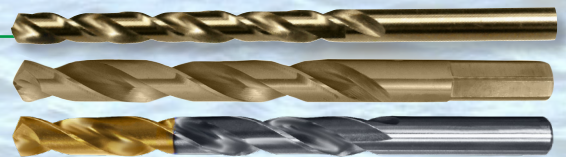
(Style 550 - Spindle drilling & 550ASP - Hand drilling) are designed to perform in stainless steel. Cobalt drill bits resist heat allowing them to **stay sharper and last longer**. Increase your productivity by getting 3-4 times longer tool life versus standard HSS drills.

Cle-Line® Cobalt Drills

(Style 1804 - Hex Shank Cobalt Jobber Drills) are designed with a 118° split point to **improve hole geometry and drilling control**.

Cle-Line® TiN-Tipped Drills

(Style 1501-TT Cobalt) TiN tipped, 135° split point, tools are designed to increase life and resist heat.



Style: 550



Style: 550ASP



Style: 1804



Style:
1501-TT



Threading

Cleveland® High Performance Taps

(Style 960SP & 893SF) are designed for tapping all your Stainless Steel applications. The unique geometry and high Vanadium substrate allows the tap to freely produce high quality threads. Drive productivity by doubling tap life and doubling machine speeds.

Cleveland® TiN coated Hand and Spiral Point Taps

(Style 1002TN and 1011TN) TiN coated taps provide a much better tool life, quality of thread and quicker tapping of holes. TiN coating adds hardness and lubricity which are critical for the application.



Spiral Point
Style: PER-960SP



Spiral Flute
Style: PER-893SF



Hand Tap Style:
1002TN



Spiral Point Style:
1011TN



Milling

Cleveland® Variable Index Carbide End Mills

(Style CEM-V-4R & CEM-V2-5R) are designed for machining stainless steel. These tools have an uneven indexing in the flutes which eliminates chatter. Available with various corner radiuses and surface treatments. This results in an improved finish on the part being machined along with extending tool life 2-3 times longer than a conventional carbide end mill.



Style: CEM-V-4R



Style: CEM-V2-5R



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