



Company Profile



Carmex Precision Tools Ltd. is a leading manufacturer of high quality cutting tools. The company was founded in 1988 in Maalot, located in the beautiful North West part of Israel.

PRODUCT LINES

Carmex specializes in the production of threading tools. Our product lines include Thread Turning inserts and tool holders, Mill-Thread inserts and tool holders, Mill-Thread Solid – Carbide and Spiral Mill-Thread. In addition to threading, we produce grooving tools, Mini Chamfer mills and the Tiny-Tools line of small boring bars for threading, turning, grooving small parts.

The company's different product lines are recognized worldwide as advanced technology, reliable full range lines that offer accurate geometry, excellent cutting performance and extended tool life.

Carmex also produces special tools in accordance with customer's requirements.

In addition to our unyielding strive for high quality, speedy service and reliability, Carmex holds the ISO 9001:2000 certificate of international quality assurance. Our products and the service we provide live up to the highest standards and outperform them.

Most of our customers' requirements are supplied immediately from our readily available wide range of stock, as well as from our agents and distributors' stocks around the world.

CARMEX BRANCHES

In addition to its distributors' chain, Carmex has three independent sales branches. Each of them keeps Carmex's wide range of stock and employs talented, service oriented managers, engineers, technicians and administrators willing to fulfill the customers' needs.

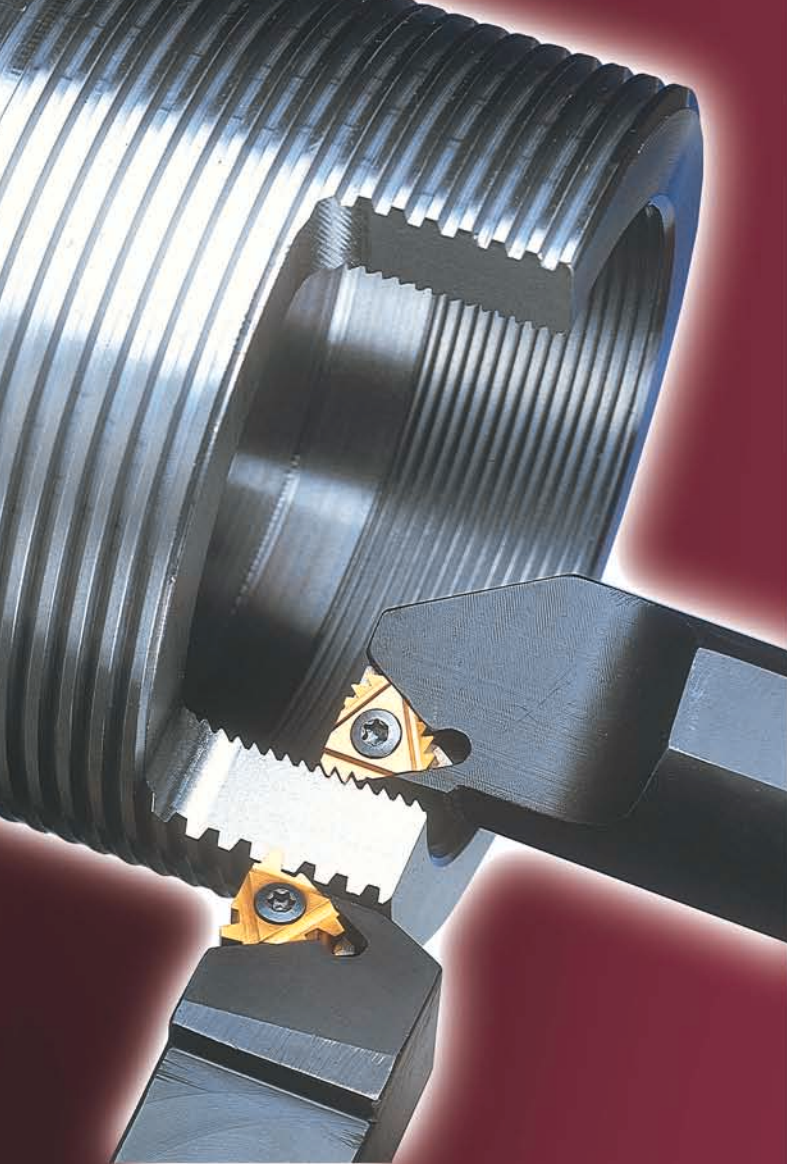
The branches were opened gradually,

2003- C.P.T. GmbH, a sales branch in Stuttgart Germany serving Europe.

2004- Carmex Precision Tools LLC, a sales branch in Wisconsin, USA serving North America and Mexico.

2008- Carmex Italia Srl, a sales branch in Modena, Italy.

In addition to our customers' recognition of our high quality tools, we are also well known as a service oriented company and as a very competitive supplier that pledge for customer satisfaction.



THREAD TURNING TOOLS

Carmex Thread-Turning product line is recognized worldwide for its full range of top quality laydown triangular inserts answering to most of the threading standards.

A wide range of threading tool holders for external or internal threads, and carbide shank tool holders.

Grounded profile and chip breaker inserts

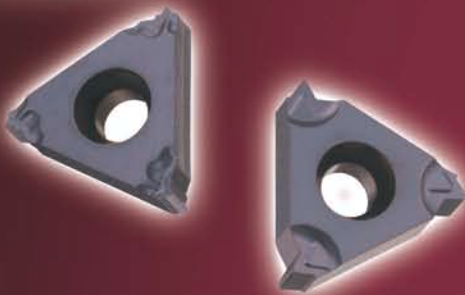
These inserts deliver high quality threads and are available in a wide variety of grades and coatings to fit all manufacturing applications.

Ultra Miniature and Miniature inserts

Inserts for threading bores as small as 6mm diameter.

VERSATILE GRADES:

BMA - PVD TiAlN coated sub micrograin grade for stainless steels and exotic materials:
MXC - PVD TiN coated micrograin for free cutting untreated alloy steels (below 30 HRC), for stainless steels and cast iron.



Type B

A combination of ground profile and sintered chip breaker threading inserts.

Type B inserts are available in BMA -TiAlN grade.

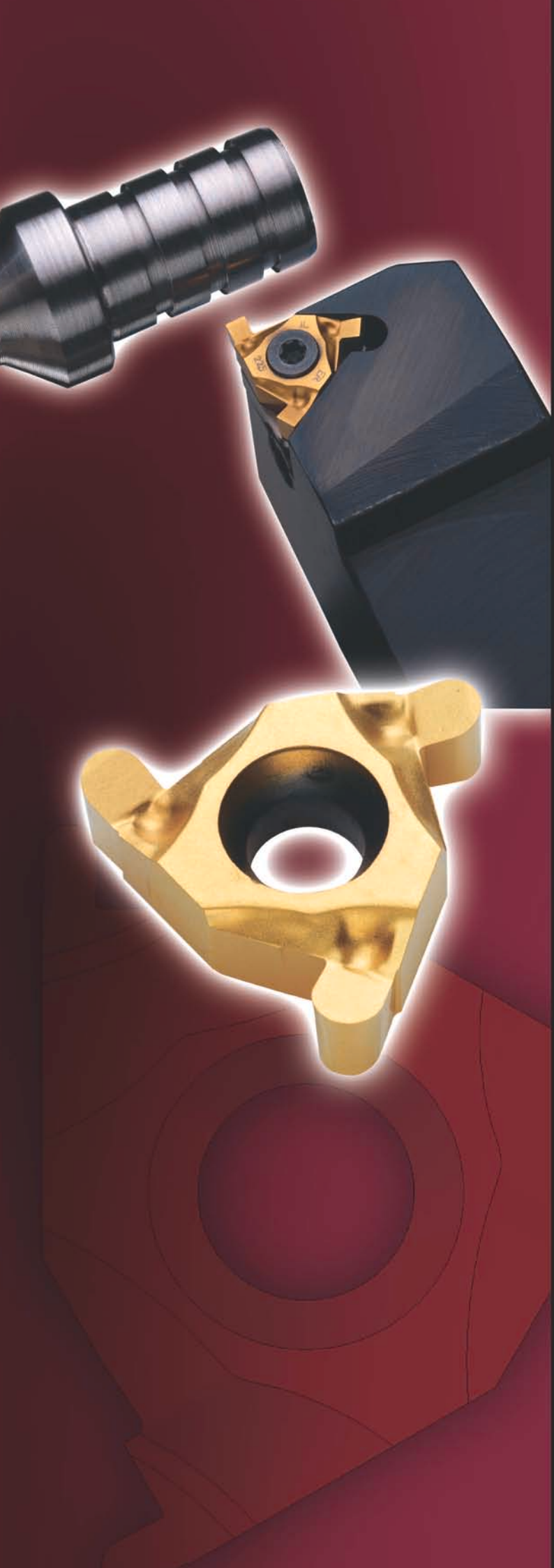
- Prevents chip curling, thus less tool breakage.
- High profile accuracy.
- A unique sintered chip-breaker form provides excellent performance.
- Longer tool life.

Type Z

A unique line of thick Thread Turning Inserts.

- Three insert sizes available:
11mm, 16mm, 22mm
(1/4", 3/8", 1/2").
- Available in two coated grades: BMA or MXC.
- Manufactured in a wide range of threads.
- Type Z inserts do not fit Carmex standard tool holders.

***Kits are also available**



GROOVING TOOLS

A combination of ground profile and sintered chip-breaker.

- Same tool holder for grooving and threading.
- Minimum investment in tooling.
- Three cutting edges.
- Precision ground.
- Improved chip control.
- Inserts for external and internal Snap Ring grooves are also available.

CARBIDE GRADE: BXC (P30 - P50, K25 - K40)
PVD TiN coated grade for low cutting speed. Works well with a wide range of stainless steels.



MILL-THREAD INSERTS AND TOOL HOLDERS

Mill-Thread tools for threading on CNC milling machines by using helical interpolation programs.

Carmex's Mill-Thread line is recognized worldwide for its full range of high quality inserts and tool holders answering to all the common thread standards and more.

- Five different insert length sizes from 12mm up to 40mm.
- Prismatic shape of insert's tail ensures exact and reliable clamping in the tool holder.
- Most inserts are double sided, having two cutting edges.
- Longer tool life thanks to a special multilayer coating process.
- Inserts for NPS & NPSF threads also available.
- A wide range of tool holders, steel shank or carbide shank, for one insert or more. All the tool holders include a built-in coolant bore.



External Multi-Insert Tool Holders

Toolholders for Milling External threads. To be used with Carmex standard Mill-Thread Inserts.

- Reduced machining time.
- Optimal coolant supply.

***Kits are also available**



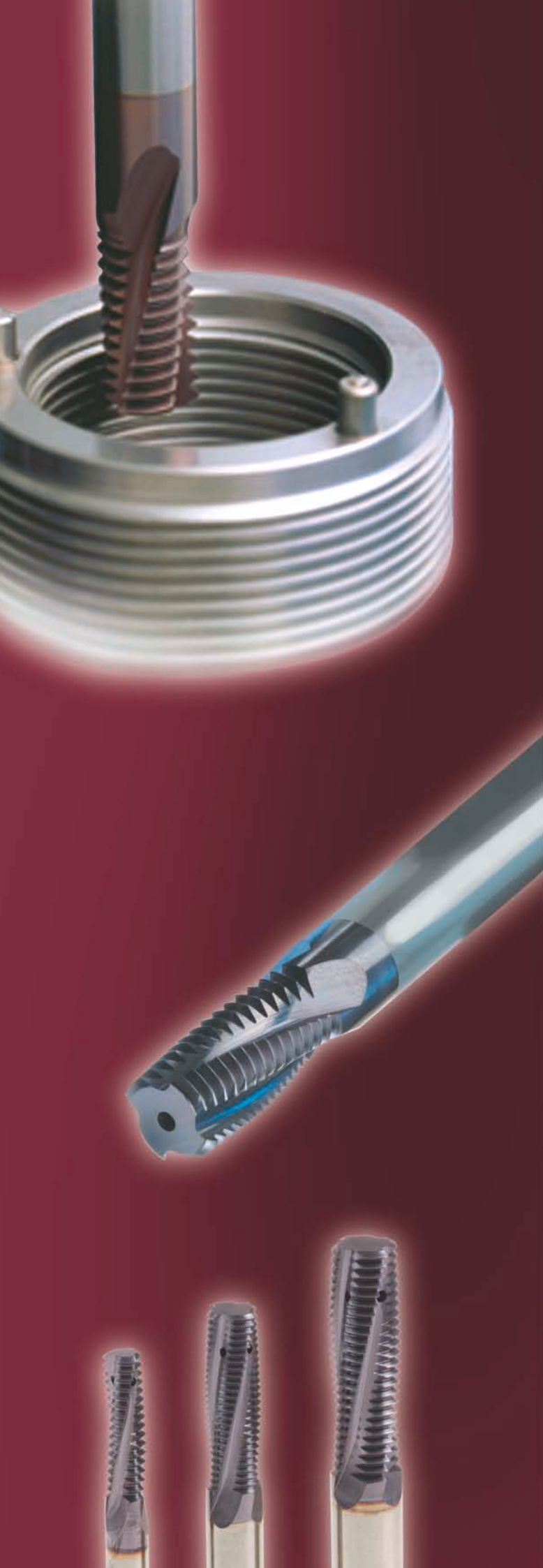
SPIRAL MILL-THREADS

The advanced spiral designed tools enable smooth cutting operations at high feed rates and reduced machining time. The tools suit a wide range of applications, from machining small components in small machining centers to heavy-duty applications in high power milling machines.

- Spiral fluted tool holders hold 2 to 9 inserts in a comparatively small cutting diameter.
- The unique clamping method enables optimal indexability.
- These tools reduce vibration and chatter.
- High grade finish is achieved in all applications: threading, roughing and finishing.
- MT7 Sub-Micron Grade with Titanium Aluminium Nitride multi-layer coating.

Spiral inserts and tool holders for finishing

- Milling a 90° shoulder with variety of corner radiuses.
- Maximum depth of cut in one tool pass - 37 mm.



MILL-THREAD SOLID CARBIDE

Sub-micron grade with Titanium Aluminium Nitride multi-layer coating (ISO K10-K20). To be run at medium to high cutting speeds. General purpose for all materials.

- Spiral flutes allow smooth cutting action.
- Shorter machining time due to multi, 3 to 6, spiral flutes.
- 2.2 mm and up cutting diameter.
- Longer tool life due to special multi-layer coating.

MTB

Thread Mills with Internal Coolant

- Coolant fluid washes the chips out of hole.
- Increased tool life.

MTZ

Thread Mills with Internal Coolant through the flutes

These unique thread mills enable the coolant fluid stream to efficiently reach the cutting edge, for smooth cutting operations.

- Especially for threading on "through holes".
- Direct chip removal.
- Optimal for machines without external coolant.

Now also available for Whitworth - BSW



MINI MILL-THREAD

Specially designed solid-carbide thread mills for the production of internal threads in very small bores. Due to the unique tool design, accurate geometries and high quality, the following are achieved:

- Threading from M1.0 x 0.25 (bore diameter \varnothing 0.75mm).
- Working at high cutting speed.
- Short machining time.
- Low cutting forces thanks to the short profile.
- No broken taps.
- Threading up to shoulder in blind holes.
- Machining of hardened materials.
- Including tools for the production of dental implants.

UNJ and MJ

Exclusive producers of thread mills to thread UNJ & MJ

The tools are available with internal coolant through the flutes for smooth cutting operations.

HARDCUT

A unique line of thread milling tools designed specifically for the machining of hardened materials up to 62HRc. These tools provide high performance, improved cut and an excellent surface finish.

- Threading from M1.4 x 0.3.
- Perfect solution for the Die and Mold industry.
- Working at high cutting speeds.
- Short machining time.
- Low cutting forces thanks to the short profile.
- Threading up to shoulder in blind holes.

MILL-THREAD SOLID CARBIDE

For Threading and Grooving Deep Parts

- Enables machining in deep holes.
- Coolant through the flutes is very effective for deep holes.
- Spiral flutes allow smooth cutting action.
- Shorter machining time due to multi, 3 to 5, flutes.
- Longer tool life due to special multi-layer coating.

Threading

Partial Profile 60°

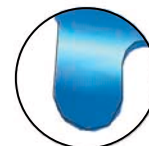
- Same tool can produce a wide range of threads and pitches.
- Same tool can produce both External and Internal threads.



Groove Milling



Full Radius Groove Milling

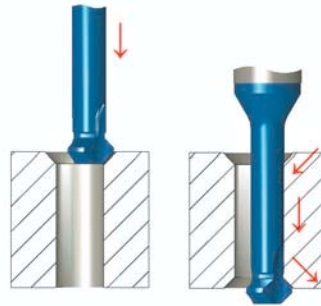


Offered in Carmex advanced MT8 Grade.

This grade delivers extremely high heat resistant and smooth cutting operation, for high performance, and normal machining conditions. General purpose for all materials.

MINI CHAMFER

- Optimal for deburring and back chamfering.
- Double side cutting.
- Spiral flute allows smooth cutting action.



Offered in Carmex advanced MT8 Grade.

This grade delivers extremely high heat resistant and smooth cutting operation, for high performance, and normal machining conditions. General purpose for all materials.

Kits



TINY TOOLS

Solid Carbide tools for working in small bores (from \varnothing 1.0mm). These tools are made for the high tech, medical and small components industry. They are used in machining centers or conventional machines.

These tools can perform the following applications:

- Boring
- Back Turning
- Profiling and Boring
- Threading
- Chamfering and Boring
- Grooving
- Face Grooving

All tools include cooling channel on the shank, enabling the cooling fluid to reach efficiently the cutting edge, for easy chip removal and smooth cutting operations.



The Tiny Tools are available in the excellent BXC TiN coated grade, for machining a wide range of stainless steels in low cutting speeds.

Kits



G00 G54 G43 H1X0 Y0 Z10
-18
G91 G41X 2.75 Y-2.75 Z0
2.75 Y2.75 R2.75 Z0.25
0 Y0 I-5.5 J0 Z2
-2.75 Y2.75 R2.75 Z0.25
40 X-2.75 Y-2.75 Z0
0 X0 Y0 Z0



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