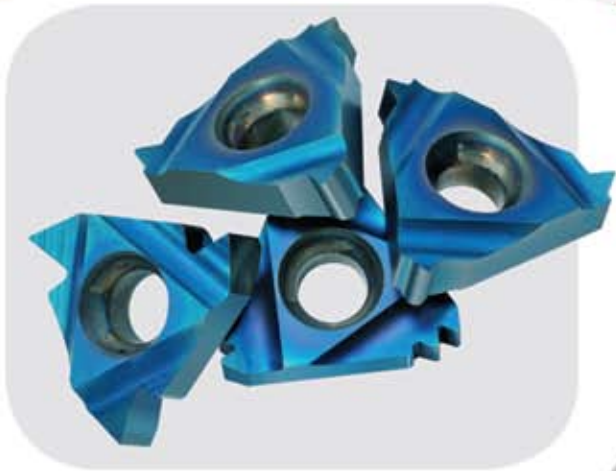


# NEWS 2012-13



**Carmex**  
Precision Tools Ltd.

*x-treme thread cutting™*



## 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 region of Israel.**

### Product Lines

Carmex specializes in the production of threading tools for turning and milling. Our product lines include Thread Turning inserts and toolholders, Mill-Thread inserts and toolholders, 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 and grooving of small parts. The company's different product lines are recognized worldwide for their advanced technology, reliable full range lines that offer accurate geometry, excellent cutting performance and extended tool life. Our products and service we provide live up to the highest standards and outperform them. Carmex also produces special tools in accordance with the customer's requirements.

### Quality Assurance

In addition to our unyielding strive for high quality, speedy service and reliability, Carmex is certified by ISO 9001:2008, ISO 13485:2003, ISO 14001:2004, OHSAS 18001 and CE. Most of our customers' requirements are supplied immediately from our readily available wide range of inventory as well as from our agents and distributor's stocks around the world. In August 2008 Carmex completed its transfer to the new, state-of-the-art modern building. In addition to the construction we invested in advanced machinery and equipment as part of our strategy to keep our position in the first line of high technology.

### Carmex Branches

In addition to its distributor's 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.

**C.P.T. GmbH, Stuttgart Germany serving Europe.**

**Carmex Precision Tools LLC, Wisconsin USA, serving North America and Mexico.**

**Carmex Italia Srl, Modena Italy.**

# Quality Certification



## Carmex Thread Turning Catalogue and CNC Programming Software

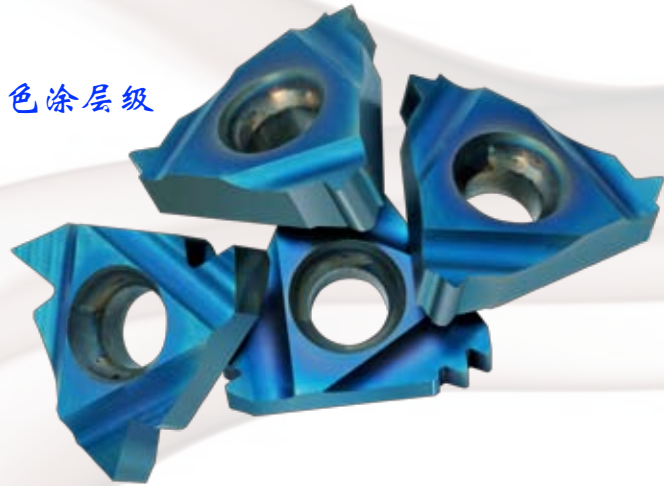


The software is available at our website: [www.carmex.com](http://www.carmex.com)

## New BLU Grade 新的蓝色涂层级

Carmex presents a new sub-micrograin grade with PVD triple layer coating. The BLU grade provides a combination of very high strength with high wear resistance.

特提出了一种新的亚微粒级的PVD涂层三层。蓝光级提供了一个非常高的强度和耐磨组合



## Quick Change Polygon Threading Toolholders

快换CAPTO螺纹刀杆

- Polygon shank CAPTO柄
- ISO standard (26623) compliant for toolholding systems ISO标准 (26623) 允许的刀杆系列
- Polygon taper ensures automatic radial centering and even pressure around the coupling CAPTO锥度能够确保径向自动对中心和周围的连接
- Enable quick tool changes 快速换刀
- ISO standard coupling system with a 1.4-degree tapered polygon shank design ISO标准连接系列带一个1.4-锥度CAPTO柄设计
- Interchangeable with leading manufacturers 与先前制造产品互换



## Pipe Threads 管道螺纹

**Wide range of Inserts and Toolholders for Oil and Gas**

**Threading applications** 宽范围的刀片和刀杆用于石油管和煤气管螺纹

- API 美国API石油锥管螺纹
- American Buttress 美国石油锯齿管螺纹
- Buttress Casing 英制石油套管锯齿螺纹
- Extreme Line Casing 美国石油套管螺纹
- VAM 美国VAM石油螺纹
- Specials 特殊螺纹



槽刀片

## Grooving Inserts

Now available: size 11 mm (1/4") inserts from 0.5 mm to 1 mm groove widths.

新增规格11mm (1/4) 刀片  
0.5-1.0mm槽宽



外和内

### External & Internal

**ER / IL 刀片** ER/IL可以互换

Same insert can be used for EX.RH and for IN.LH.

**IR / EL 刀片** IR/EL可以互换

Same insert can be used for IN.RH. and for EX.LH.

## Thread Whirling Tools 旋风铣刀具



### For Perfect Long Threads on Swiss Type Machines

在瑞士专用机床上加工长的螺纹  
Thread whirling enables fast and accurate production of special threads. 旋风螺纹铣刀能使特殊螺纹

快速和准确的的生产出来  
Used for medical components such as implants, bone screws and other small parts in the electronics, aerospace and defense industries. 用于电子、航空航天和国防工业等医疗部件，如植入物、骨螺钉等小部件

- Enables production of small diameter long threads on Swiss Type machines. 在瑞士型机器上生产直径小的长螺纹
- Shorter machining time - one pass thread forming is needed. 较短的加工时间既可以形成螺纹

## CMT Vertical Mill-Thread CMT顶部安装的螺纹铣刀



Vertical thread milling indexable inserts and toolholders that perform a wide variety of threads.

顶部安装的螺纹铣刀片和刀杆可以加工各式各样的螺纹



### Expanding the product line with: 扩大的产品线

- C10 (Ø 10 mm) and C25 (Ø 25 mm) inserts and toolholders, for smaller and larger diameters.
- Inserts for Trapez and Acme
- Inserts for face milling and finishing

C10(Ø10mm)和C25 (Ø25mm) 刀片和刀杆用于小到大的螺纹

有公制梯型螺纹和美制ACME梯型螺纹刀片

有面铣刀和精铣刀片

- Inserts with multi and spiral flutes: 刀片多螺旋槽
  - Shorter machining time due to multi (5 to 6) flutes
  - Smooth cutting operation 由于5-6个槽，加工时间短
  - Low cutting pressure 平滑的切削

低切削力

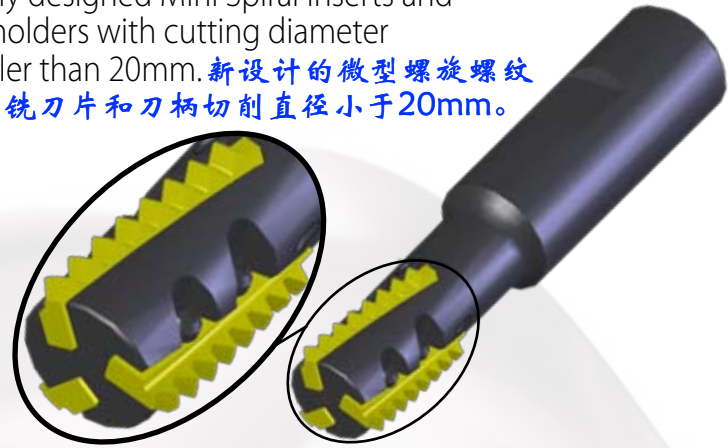
螺旋式螺纹铣刀

# Spiral Mill-Thread

- New Spiral inserts and toolholders with cutting diameters 28 mm and 40 mm. 新的螺旋式螺纹铣刀片和刀杆，切削直径28-40mm



- Newly designed Mini Spiral inserts and toolholders with cutting diameter smaller than 20mm. 新设计的微型螺旋螺纹铣刀片和刀柄切削直径小于20mm。



# Heavy Metal Modular Mill-Thread Toolholders

重金属模块式螺纹铣刀杆

- Carmex Heavy Metal modular holders are ideal for deep reach applications. 重金属模块式螺纹铣刀杆，理想的深孔加工
- Heavy Metal modular toolholders provide higher rigidity and dampening of vibration resulting in better finish. 重金属模块式刀杆提供更高的刚性和抗振，从而完成最好的加工
- The unique clamping method enables optimal strength and indexability. 独特的设计夹持方法能够使其具有最优的强度和性能
- Cost saving - Same shank can hold different heads. 节省成本，同样的柄可以装夹不同的头

节省成本，同样的柄可以装夹不同的头



# Expanded Mill-Thread inserts line offering:

提供扩大的螺纹铣刀片

- UNJ UNJ
- American Buttress 美国锯齿螺纹铣刀片
- Acme 美国ACMTE螺纹铣刀片



## Mini Mill-Thread 迷你螺纹铣刀



- Thread mills for 3xD thread depth 3倍径螺纹铣刀片
- New thread mills for 4xD and 5xD thread depth 新螺纹铣刀用于4倍径和5倍径螺纹深度

## MTI - for threading deep parts MTI深孔螺纹铣刀

Expanding the product line with: 产品延伸

- Thread mills for Full Profiles ISO, UN 螺纹铣刀完整牙ISO/UN
- Small diameter thread mills for Partial Profiles 55° and 60° 小径螺纹铣刀范围牙55°和60°
- Thread mills for Acme 美国ACME梯型螺纹



DMT-三合一，钻、铣螺纹和倒角

## DMT - 3 in 1, Drill, Thread and Chamfer

Circular movement produces the thread hole, the thread and the chamfer in one work piece. 螺旋插补铣出螺孔，然后铣螺纹和倒角



### DMTH

The new DMTH tools expand the range of the existing DMT line providing the ability to cut steels, hardened materials, stainless steels and super alloys. 新的DMTH延伸螺纹铣刀，以现有的DMT延伸至加工钢、硬钢、不锈钢和超合金



Carbide Grade: MT11 MT11级硬质合金

- Advanced sub-micrograin carbide grade provides high strength and wear resistance. 先进的亚微颗粒级硬质合金提供高强度和高耐磨
- No need for internal coolant because the tools are designed to work with external coolant. 不需要内冷，因为这个刀具设计外冷即可
- PVD triple layer Blue coating for high performance in wide range of applications. PCD三层蓝色涂层用于高效率宽范围加工

## Tiny Tools 小型车刀

- NEW Threading Tools for MIR - NPT, Trapez, Acme

新的整体硬质合金螺纹车刀MIR型用于美国NPT，公制DIN103梯型螺纹和美国ACME梯型螺纹

- NEW Products for most applications

新产品用于所有加工

- NEW Grade K20 - Uncoated Carbide grade for non ferrous metals, aluminum and cast iron

新的K20非涂层级硬质合金用于非铁金属、铝合金和铸铁



## Vertical Thread Turning inserts and toolholders

顶部安装的螺纹车刀片和刀杆

- Carbide shank toolholders provides excellent vibration resistance

硬质合金刀杆提供杰出的抗振性能

- Long reach

长的距离

- Through coolant

内冷

- For Threading, Grooving, Boring and Chamfering

用于螺纹、槽、镗孔和倒角加工

- Quick indexing

快速转位

- Sub-micron grade with advanced PVD triple coating. Extreme high heat resistance and smooth cutting operation extends tool life

亚微颗粒级带先进的PVD三层涂层，基础的高耐热和平滑的加工

