

2009-10 NEWS

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## Carmex is a leading manufacturer of high quality cutting tools.

In August 2008 Carmex completed its transfer to the new state of the art modern building. In addition to the construction we invested in new machinery and advanced equipment as part of our strategy to keep our position in the first line of high technology.



Certified

Soon to be Certified

## **D-Thread** Mill-Thread Inserts & Toolholders for machining deep threads

- Improved productivity due to multi-insert toolholders.
- Partial Profile, standard or U-type inserts for a wide range of threads.
- Inserts with three cutting edges, reduces tooling costs.
- Low cutting resistance due to the single point inserts.
- Holder allows a long overhang and includes internal coolant.
- Same insert and toolholder for both external and internal thread.



## **VMT** Vertical Mill-Thread

Carmex presents a new family of vertical thread milling indexable inserts and toolholders to perform a wide variety of threads.

- Ground profile inserts for high precision and excellent performance.
- Working at high machining parameters, with high surface quality.
- Solid and accurate clamping method enables full repeatability.
- Same insert for right-hand or left-hand threads.
- Toolholder includes built-in weldon and coolant bore.
- Chamfer inserts are also available.



## **MTQ - Mill Thread Solid Carbide**

**With relieved neck and internal coolant bore**

Thread mills with relieved neck and internal coolant for milling medium and large threads on relatively deep work pieces.



### **Carbide grade: MT7**

- To perform medium and large threads on relatively deep work pieces.
- To use overhang according to the application.
- To perform deep threads at the bottom of the application.

**Available Profiles: ISO, UN**

### **Advantages**

- Provides high rigidity and stability (anti-vibrations).
- Accomplishes deep threads in one pass.
- Relatively low cutting forces due to short cutting length which enables reduction of the radial in feed required.
- Threads length up to 3D.

## **MTH - HARDCUT**

**Carmex presents new innovative mill thread solid carbide tools for machining:**

- Hardened steels and cast iron up to 62 HRC.
- High temperature alloys.
- Titanium alloys.
- Super Alloys (Hastelloy, Inconel, Nickel Base Alloys).



The tools provide the possibility to machine materials with a higher tensile strength and hardness using relatively high cutting data.

### **Carbide grade: MT9**

*Ultra fine sub-micron grade with Advanced PVD Triple Coating*

**Available Profiles: ISO, UN**

### **Advantages**

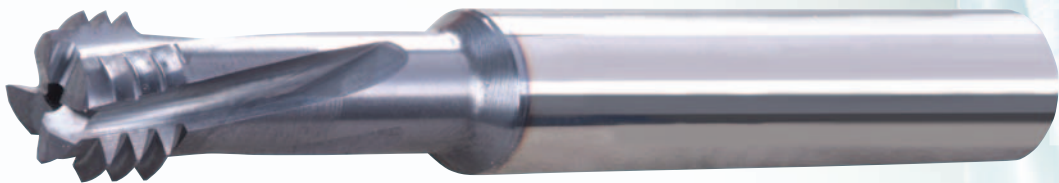
- Same tool performs thread milling and chamfering - saves machining time.
- Increased cutting diameter - better rigidity and stability.
- Coating provides high wear and heat resistance.
- Ultra fine grade - dedicated for hardened materials.
- Short chips are produced, insure high process security.
- Short cycle time - increases productivity.
- Thread length up to 2xD.

## DMT

### 3 in 1 - DRILL, THREAD, CHAMFER

High Performance tools with internal coolant supply for the production of internal threads.

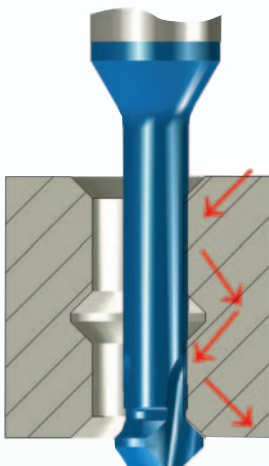
Circular movement produces the thread hole, the thread and a chamfer in one work process.



#### Advantages

- Cancels the need for drilling the hole.
- Short cycle time and high performance reduces machining costs.
- Suitable for both blind and through holes.
- No time lost for tool change, since drilling, chamfering and thread milling are done with one tool.
- Full Profile thread
- Same tool for right-hand or left-hand threads.
- Cuts a wide range of materials.

## Mini Chamfer



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

#### Carbide grade: MT8

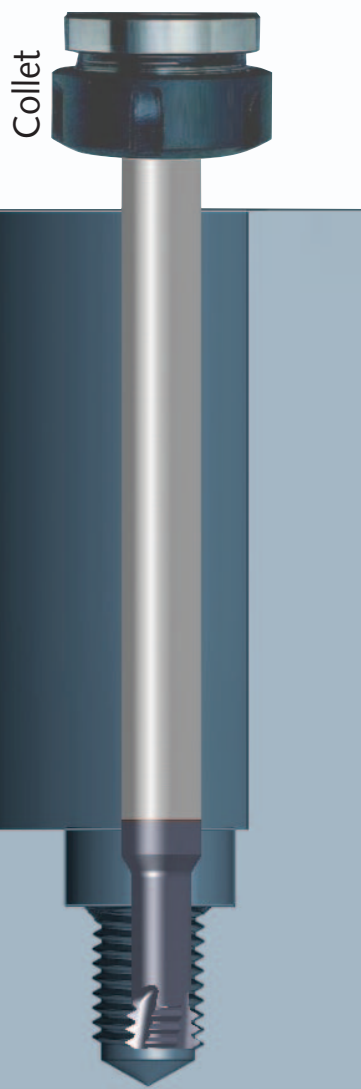
Sub-micron grade with advanced PVD triple coating (ISO K10-K20).

Extremely high heat resistant and smooth cutting operation, for high performance, and normal machining conditions. General purpose for all materials.

# **New** *LONG MINI MILL-THREAD*



We extended the product range and added Long Shank Thread Mills enabling threading at the bottom of deep workpieces.



## **TINY TOOLS**

**Solid Carbide tools for working in small bores**

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

### ***New Families***

#### ***MUR Bars***

*Profiling, 90° Face Cutting - with Coolant Channel*



#### ***MWR Bars***

*Chamfering and Profiling - with Coolant Channel*

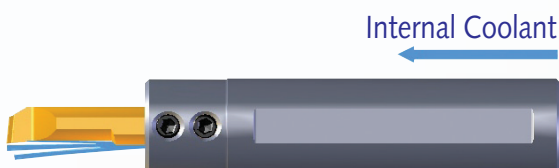


#### ***MVR Bars***

*Deep Face Grooving - with 2 Coolant Bores*



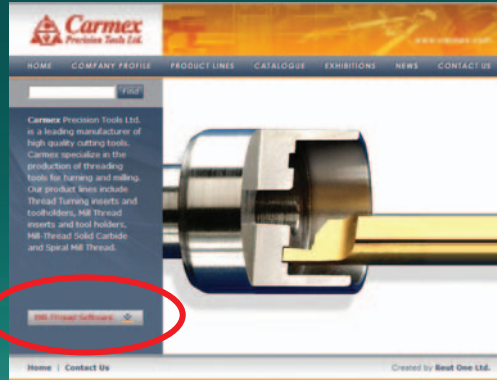
#### ***Tiny Tools Bar Holders***



# Carmex Mill-Thread catalogue and CNC programming Software

**New**

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



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