



***C.P.T.***

**Precision Tools**

**New**

# **CR-SUPERCUT** **Roughers**



## Solid Carbide Roughers

CPT solid carbide Roughers are new innovative high performance end mills.

Specifically designed for high volume machining applications.

Multi-flute, semi-finish profile and center cutting.

Provides high metal removal rates in Slotting, Shouldering and Helical Plunging operations.



## Features

- High Performance Cutting (HPC), High material removal rate
- Innovative roughing geometry produces smaller chips
- Low cutting forces
- Reinforced corner chamfer, promotes additional strength for longer tool life
- Designed to machine difficult and abrasive materials, Steels and Alloy Steels up 56 HRc as well as Stainless Steels, Cast Iron and Super Alloys

Ultra-Fine carbide grade **CR3** with high hardness and toughness provides high cutting edge stability and wear resistance.

A **New Generation** of PVD Coating for High-Performance Cutting Applications.

## CMT Roughers

Indexable CMT Roughers for excellent performance



### Features

- Ground profile inserts for high precision and excellent performance
- Solid and accurate clamping method enables full repeatability
- Working at high machining parameters
- Modular system using various standard CMT toolholders
- Enables machining with large overhang
- For machining Steels and Alloy Steels up to 56 HRc as well as Stainless Steels, Cast Iron and Super Alloys.

**Carbide Grade: CR3**



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## **Solid Carbide Roughers** *Aluminum Machining*



### **Features**

- **High Performance Cutting (HPC)**
- **Optimal flute geometry delivers maximum metal removal rates and better chip evacuation**
- **Low cutting forces**
- **Reinforced corner chamfer, promotes additional strength for longer tool life**
- **Uncoated smooth surface finish**

Ultra-Fine carbide grade **CR5** with high hardness and toughness provides high cutting edge stability and wear resistance.

**Available with or without internal coolant through the flutes**

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