



## The Challenge

Pre-hardened plastic mould steels generally have a hardness between 40 and 50 HRC. However, as the hardness increases, the machinability of the materials changes significantly.

The below-mentioned materials are normally long-chipping, but beginning from approx. 45 HRC they only produce short chips. In order to provide end users with a tap of high process control which covers both ranges, the 'CONDOR project' was launched.

#### Range of applications

- Structural steels
- Tool steels
- Cold work steels
- Hot work steels

### The Development Project

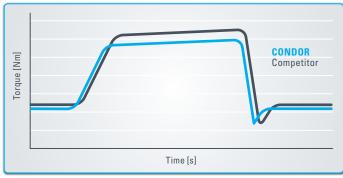
Together with strong partners from the sectors of substrate, heat treatment, surface technology and edge preparation, we have developed a pioneering groundbreaking tool concept for hardened steels and plastic mould steels, which takes reliable series production to a new level.

#### The Key Parameters included

- · Improved hardness and heat resistance
- Optimised flute shape through FEM simulation
- · Micro-geometry of the cutting edge
- · Innovative coating technology



### **Schematic Torque Curve Competitor and CONDOR**



- High-precision cutting edge preparation
- · Increased number of flutes for longer tool life
- Available with and without internal coolant

# The Advantages of CONDOR

- Suitable for long and short-chipping materials
- Maximum process control due to internal coolant
- Particularly suitable for mass production
- Problem solver for Toolox 44 and Hardox 400
- Part of the catalogue range (M 3 M 16)

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