

PREVENTIVE TOOL MAINTENANCE

1. YOUR MAIN CHALLENGE

Performing proper maintenance so the tool will perform more reliable for a longer period of time.

2. WHY TOOL MAINTENANCE?

Cutting tools are valuable production elements and deserve to be kept in the best working conditions for the longest amount of time. Only then they will contribute effectively in achieving the best production economics.

SELECTION OF TOOLS AND CUTTING DATA

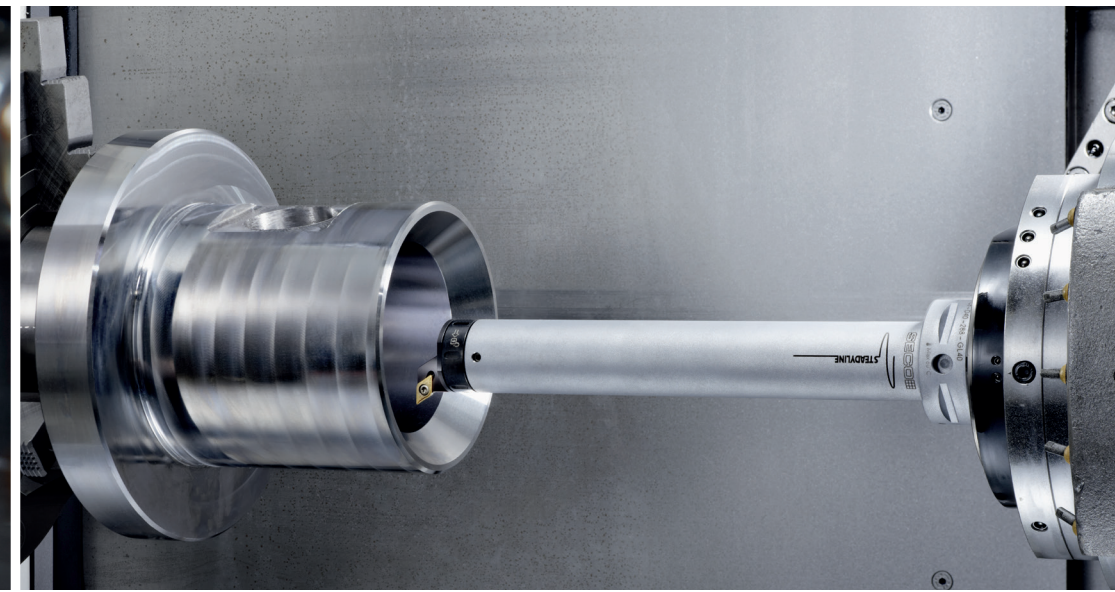
DID YOU KNOW THAT STEADYLINE® TOOLING DAMPS THE VIBRATIONS CAUSED BY THE CHIP FRAGMENTATION, AND AS A RESULT TOOL LIFE GOES UP MORE THAN 40%?



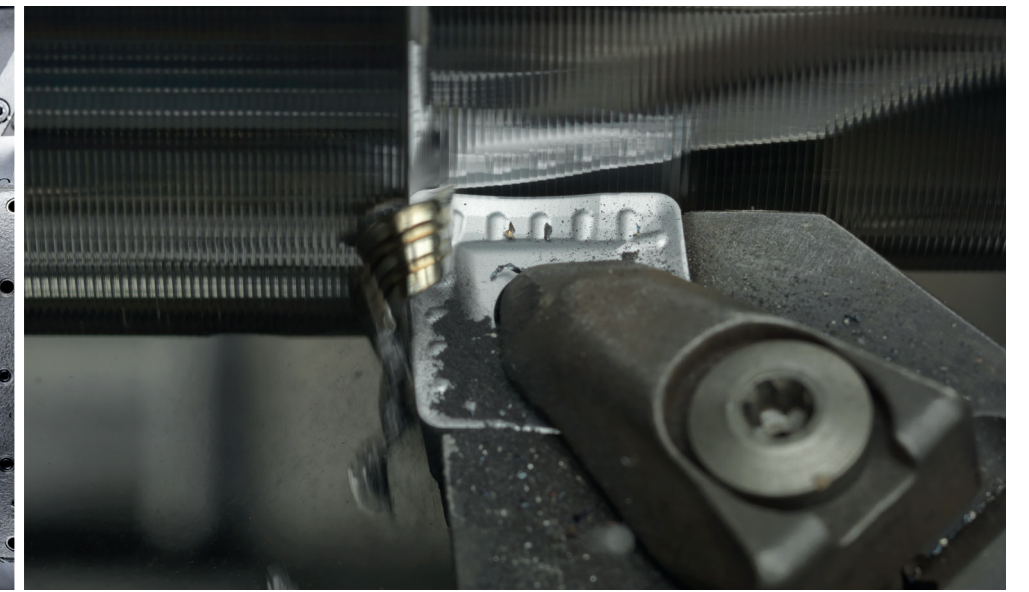
Everything starts with a correct selection of the appropriate tool and cutting conditions.



The correct cooling type and medium are key elements for a successful machining operation.



A vibration-free cutting edge is a key element for a successful machining operation.



The correct chip formation and evacuation are key elements for a successful machining operation.

STORAGE OF CUTTING TOOLS

DID YOU KNOW THAT IN AVERAGE 15% OF THE WORKPIECES ENDS UP IN THE SCRAP BIN DUE TO UNACCEPTABLE QUALITY?



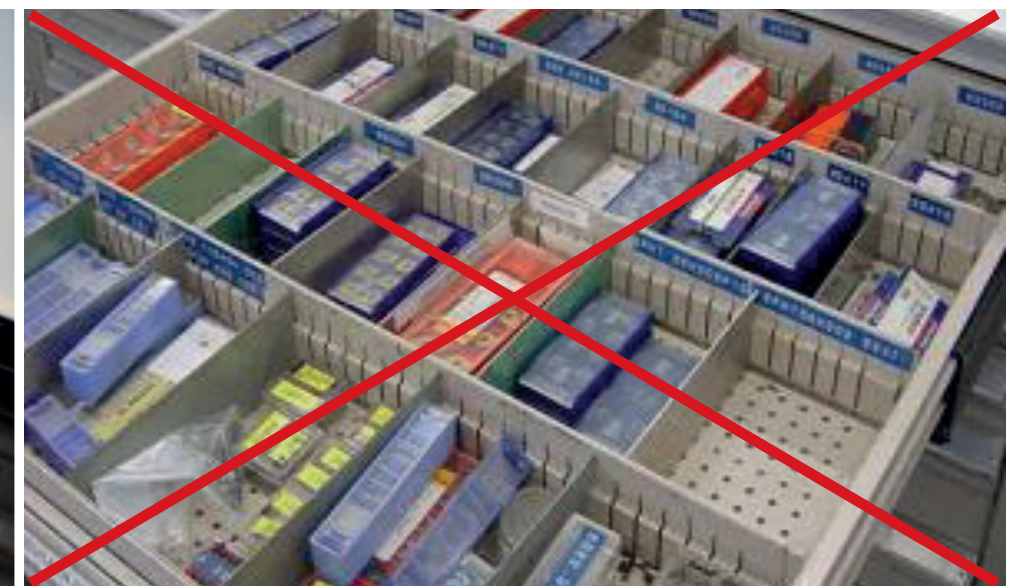
Cutting tools must be stored in clean and safe conditions.



Cutting tools should not be stored in a collection basket.



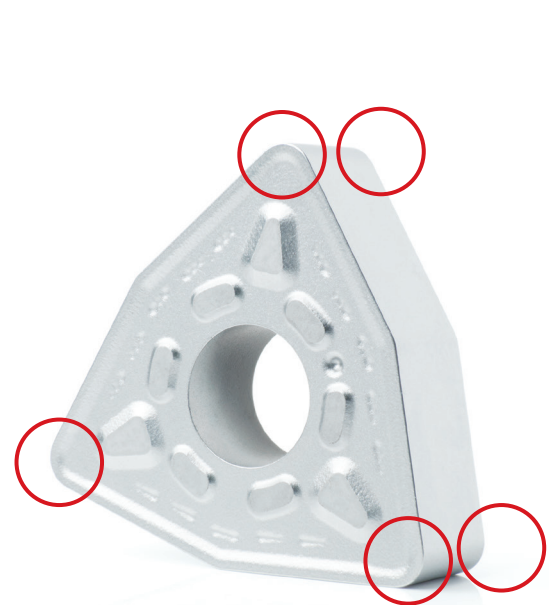
Inserts should be stored in such a way that the needed insert can be quickly retrieved.



Inserts should not be stored randomly.

HANDLING OF INSERTS

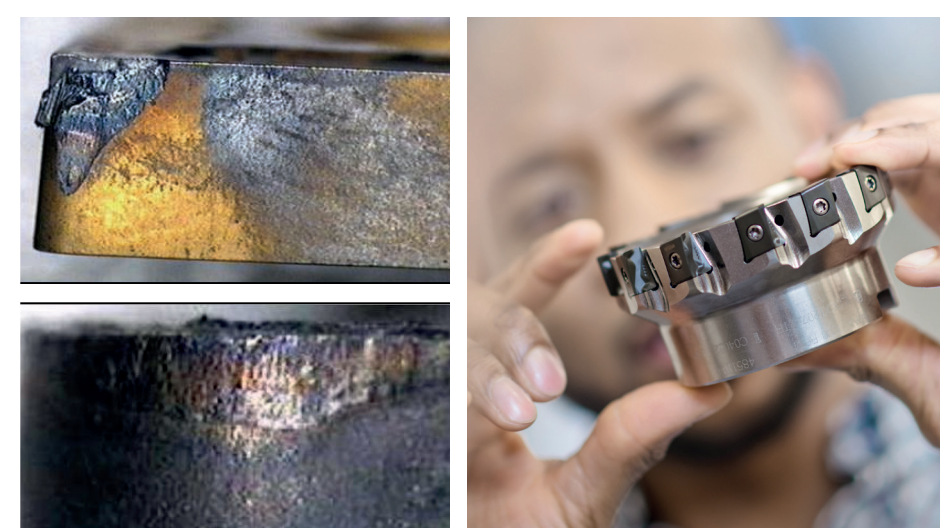
DID YOU KNOW THAT IN AVERAGE 1 OUT OF 5 CUTTING EDGES ENDS UP IN THE SCRAP BIN WITHOUT HAVING BEEN IN CONTACT WITH WORKPIECE MATERIAL?



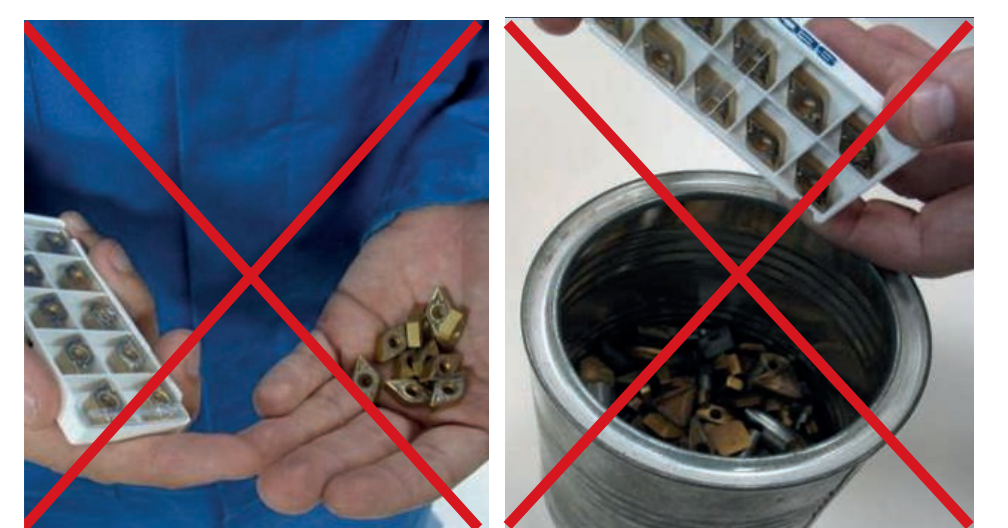
Use every cutting point.



Use the appropriate insert dimensions for the operation.



Tool deterioration should be followed up carefully.



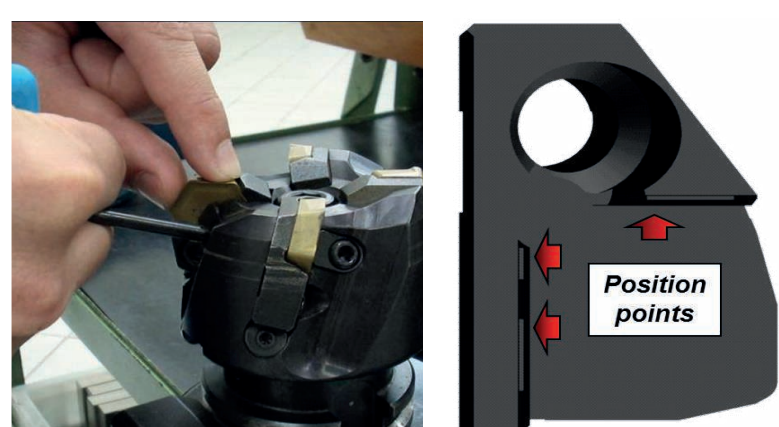
Cutting edges are brittle. Ensure that they are not damaged by improper storage.

MOUNTING OF TOOLS AND INSERTS

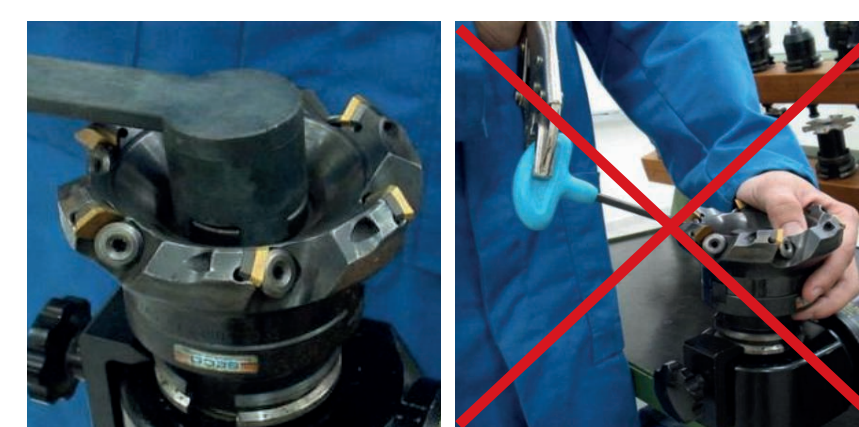
DID YOU KNOW THAT CORRECT TOOL MAINTENANCE AND TOOL MANIPULATION CAN INCREASE OEE* WITH AT LEAST 8%?



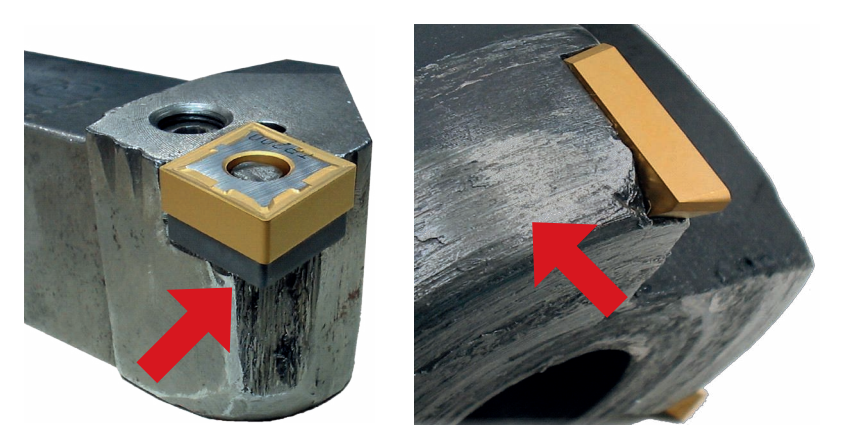
Pair the correct cutting edges with the correct toolholders. Inserts must be clamped in clean and undamaged insert pockets.



First position the insert correct in the insert pocket and only then clamp firmly.



Clamping either too loosely or too tightly is not recommended.



Immediately replace damaged tool holders and spare parts.

*Overall Equipment Effectiveness

This is an overview of the recommended handling of cutting tools. For more specific help and advice concerning structured preventive maintenance contact your account partner at Seco.

SECO