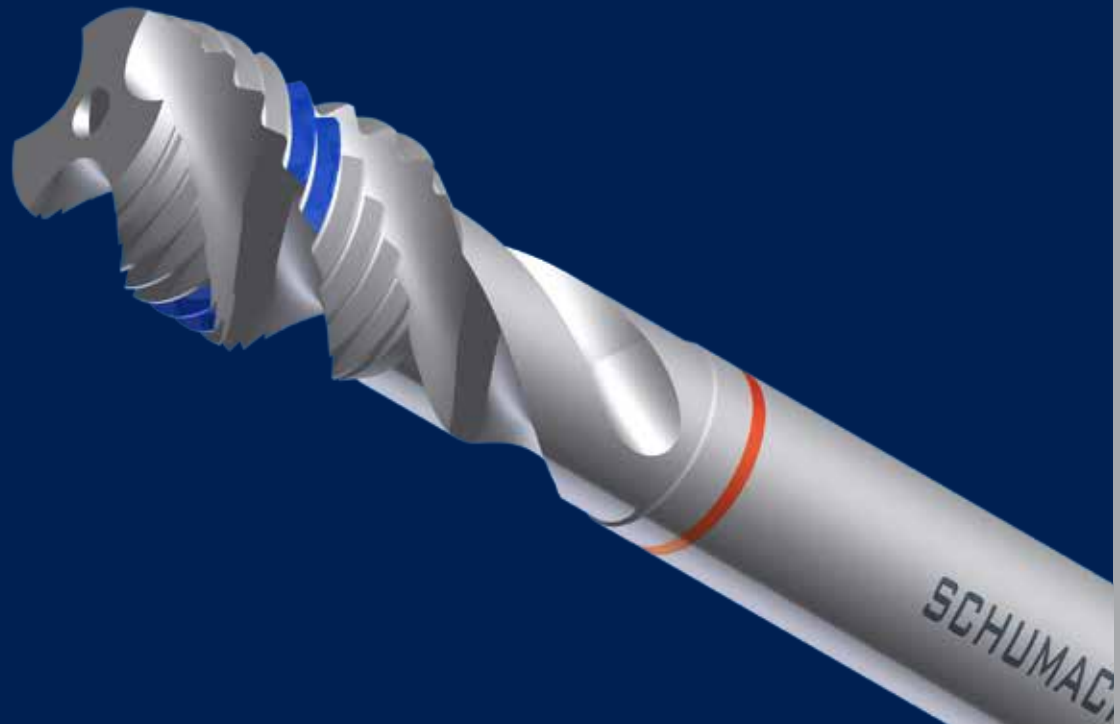


**SCHUMACHER**  
PRECISION TOOLS SINCE 1918



# TYPHOON

Threading in Advanced Applications



**ToolDesign**   
by Schumacher



Taps for high-end applications

# Project TYPHOON

## The Technology of TYPHOON

- > High alloyed PM-steel substrate
- > Optimized heat, surface and cutting edge treatment for process security in production
- > State-of-the-art TiCN-coating

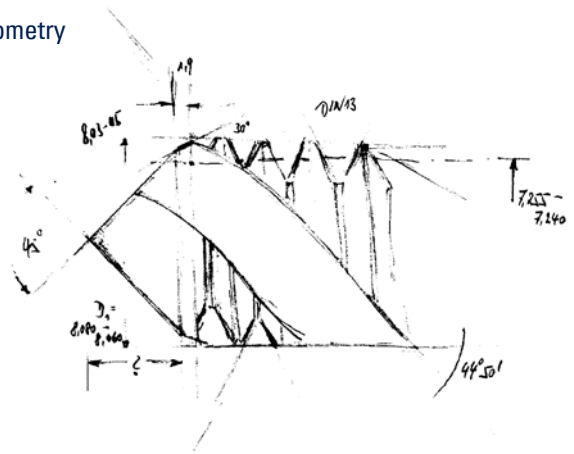


Art. 334/48 and 434/48 TYPHOON



Art. 313/48 and 413/48 TYPHOON B

- > Specific tool geometry, developed in long-term test series using "Rapid-Prototyping" methods
- > Tight tolerances in tool production for accuracy in process, ensured by increased efforts in "Tool Quality Management"
- > Administered through our engineering and production system ToolDesign, ensuring a 100% reproducibility of the tool geometry





## The Advantages of TYPHOON

- > Increased cutting speeds – due to new tool geometry and advanced coating technology
- > Reduction of torque – following optimized chip evacuation and reduction of friction
- > Improvement of thread surface quality (workpiece)
- > Increase of tool life – up to threefold
- > Suitable for a broad range of threading operations – especially in high-alloyed materials
- > Off-stock in catalogue 123 G from M 3 - M 20

## Selected workpiece materials and cutting data

Material:	Cutting Speed:	Coolant:
ST37/ST52	Vc=25m/min	Emulsion
C45	Vc=25m/min	Emulsion
Alloyed Steels	Vc=25m/min	Emulsion/Oil
INOX Steels	Vc=10m/min	Emulsion/Oil
GGG	Vc=15m/min	Emulsion
Cu-Alloys	Vc=20m/min	Emulsion
Al-Alloys	Vc=30m/min	Emulsion

## Industries



>> Automotive Industry



>> Oil & Gas Industry



>> Energy Industry



>> Schumacher Turbine

## Examples for successful applications

- > Production of clutches, breaks and couplings for the automotive industry
- > Special turbine steel applications in the energy sector
- > High-alloyed and stainless steels for the oil & gas industry

**SCHUMACHER**  
PRECISION TOOLS SINCE 1918



Schumacher Precision Tools GmbH  
Küppelsteiner Str. 18-20  
D-42857 Remscheid  
Germany

Telephone: +49 (0) 21 91 97 04-0  
Facsimile: +49 (0) 21 91 97 04-30

[www.schumachertool.com](http://www.schumachertool.com)