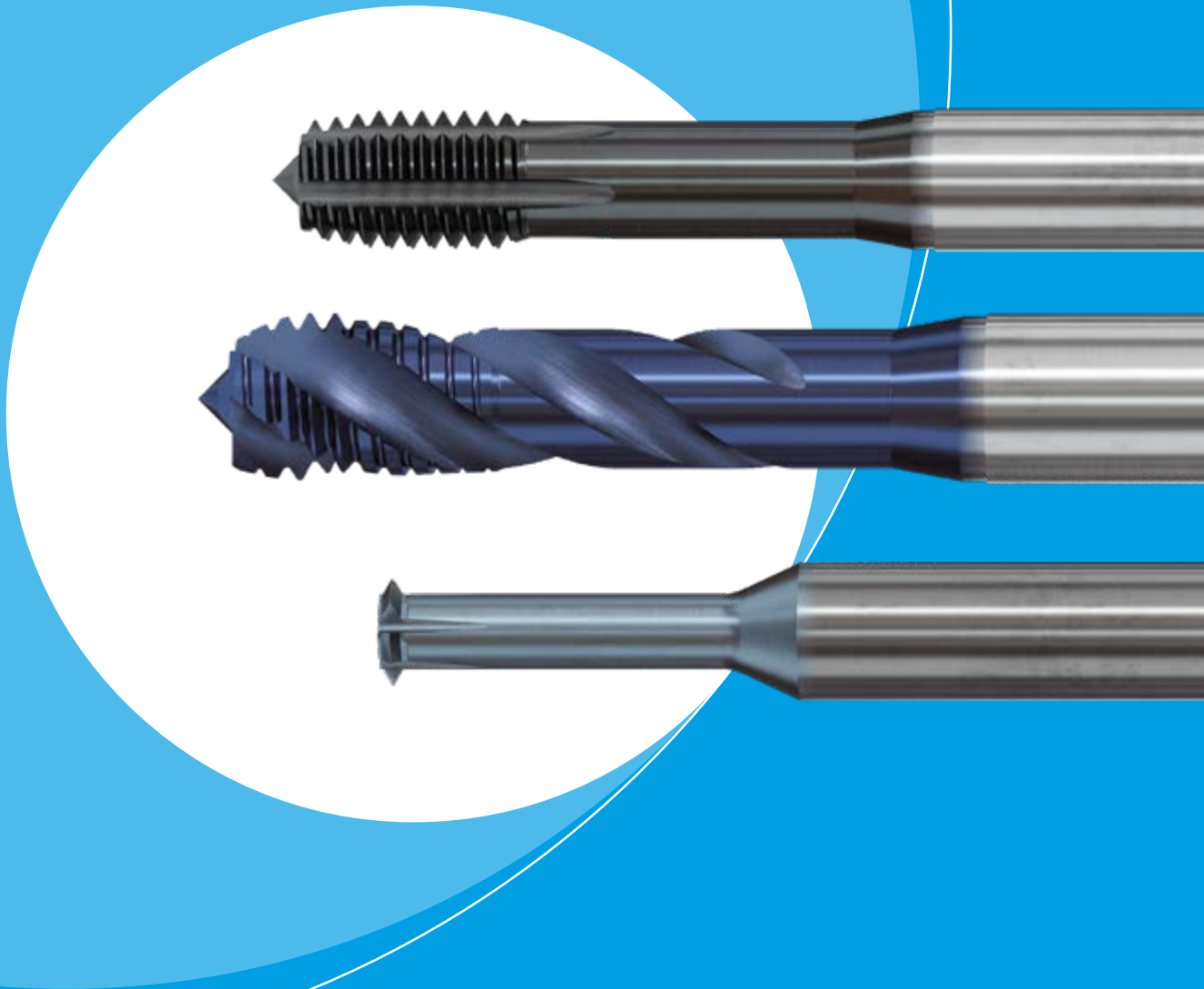


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NEW PRODUCTS



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# NORIS SALOREX VR HSSE-PM TIBLU

## ISO X

- Higher manufacturing dimension
- Longer use in abrasive and clamping materials



## S-MOD

- Ground thread crests
- Less chip clampings
- Less friction
- Optimized lubrication



## BLIND HOLE TAPS FOR HIGH ALLOYED STEELS UP TO $\sim 1100 \text{ N/MM}^2$ (34 HRC)

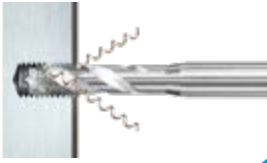
Cold working steels	X153 CrMoV12 (1.2379)
Warm working steels	X40 CrMoV5-1 (1.2344)
Stainless steels austenitic	X5CrNi18-10 (1.4301)
Stainless steels ferritic	X6Cr17 (1.4016)
Stainless steels martensitic	X5CrNiCuNb16-4 (1.4542)

## PORTFOLIO INCLUDES ALL COMMON METRIC, UN- AND G- DIMENSIONS

M3-M30 (ISO 2X and ISO 3X)  
MF6x0,75- MF24x1,5 (ISO 2X)  
4-40 UNC- 1-8 UNC (2BX)  
10-32 UNF- 1-12 UNF (2BX)  
G1/8- G1'' (X)

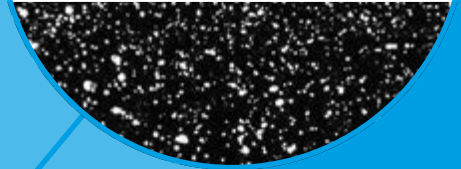
## 3xD

- Long, 45° spiral flutes
- Optimal chip removal in deep tapping operations



## HSSE-PM

- High hardness
- Homogenous microstructure
- High wear resistance
- Extraordinary toughness



## TIBLU

- Multi-layer nanostructured PVD-coating based on AlTiN
- Extraordinary compact and homogenous structure
- Higher production reliability
- Longer tool life



## ADVANTAGES

- Consistent portfolio of the most used dimensions, tolerances and chamfer forms
- Optimized tools for difficult-to-machine materials

## CUSTOMER BENEFITS

- High production safety
- High tool life
- Reduce production time

# NORIS SPANLOS NEO AL HSSE-PM DLC

## ISO X

- Higher manufacturing dimension
- Longer tool life



## MKB

- Safe lubricant supply
- High production reliability



## COLD FORMING TAPS FOR ALUMINUM WROUGHT ALLOYS

Aluminum wrought alloys

- AlMgSi (6060)
- AlMg0,7Si (6063)
- AlZn4,5Mg1 (7020)
- AlZn5,5MgCu (7075)
- AlMgSi0,5 (6101B)

## PORTFOLIO INCLUDES ALL COMMON METRIC DIMENSIONS

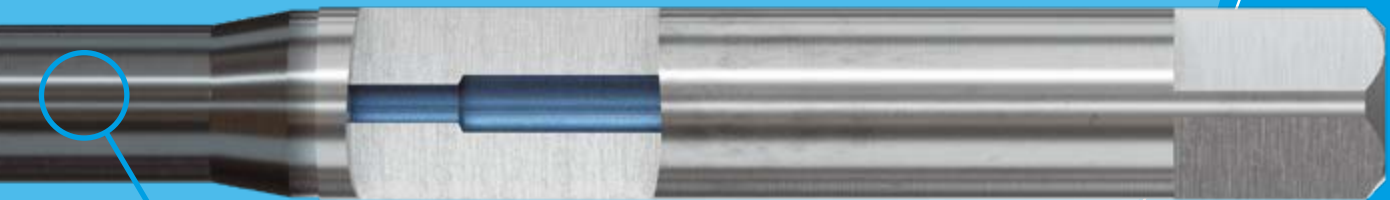
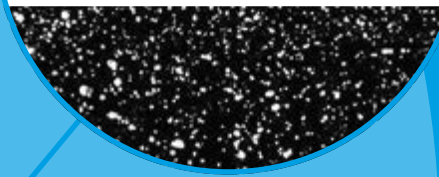
M2-M10 (ISO 2X)

## Geo

- Asymmetric forming lobe
- Low torque with maximum stability

## HSSE-PM

- High hardness
- Homogenous microstructure
- High wear resistance
- Extraordinary toughness



## DLC

- Amorphous carbon layer
- Comparatively high hardness
- High thread quality
- Longer tool life



## ADVANTAGES

- Special designed geometry on the pressure points
- Optimized tool surface for use in wrought aluminum alloys

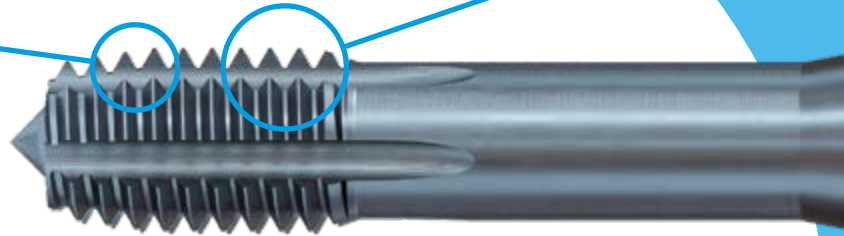
## CUSTOMER BENEFITS

- No chips
- High production safety
- High tool life

# NORIS SPANLOS NEO GAL HSSE-PM TICN

## ISO X

- Higher manufacturing dimension
- Longer tool life



## MKB

- Safe lubricant supply
- High production reliability



## COLD FORMING TAPS FOR ALUMINIUM CAST ALLOYS

Aluminium cast alloys AC-ALSi10Mg  
AC-ALMg9  
AC-ALSi9Cu3  
AC-ALSi5Cu3Mn

## PORTFOLIO INCLUDES ALL COMMON METRIC DIMENSIONS

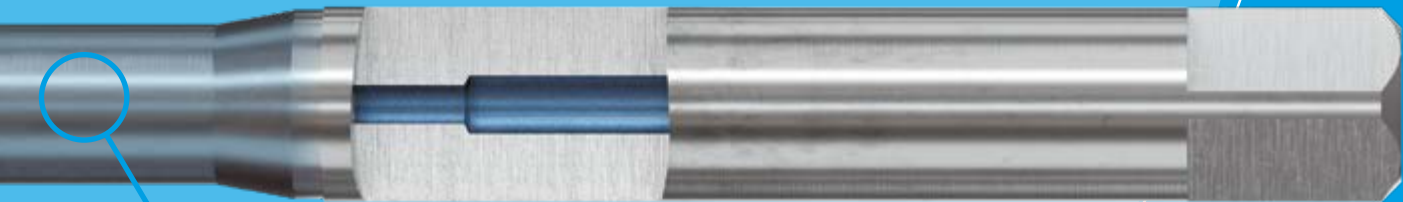
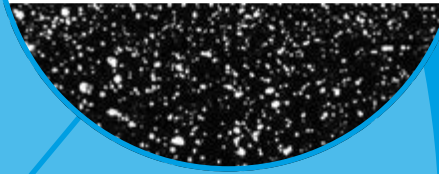
M5-M10 (ISO 2X)

## GEO

- Forming lobe with slip plane
- Safe production of threads conforming to standards

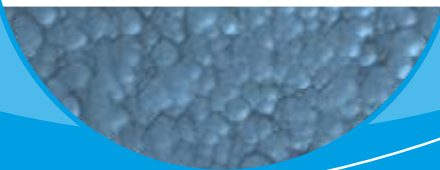
## HSSE-PM

- High hardness
- Homogenous microstructure
- High wear resistance
- Extraordinary toughness



## TICN

- PVD coating with low friction values
- Protects against abrasive wear of cast aluminium alloys



## ADVANTAGES

- Special designed geometry on the pressure points
- Optimized tool surface for abrasive aluminum cast materials

## CUSTOMER BENEFITS

- No chips
- High production safety
- High tool life

# NORIS ZTF HT K20 ALTIN

## PROFILE

- Full profile circular milling
- Threading without pre-drilling
- Burr-free thread production



## MKB

- Coolant bore from shank dia. 10mm
- High tool stability



## CIRCULAR DIVING THREAD MILL FOR DIFFICULT MACHINABLE AND HARD MATERIALS

- For different thread sizes but for one pitch only with corrected thread profile
- Production of internal threads in hardened steels up to 2xD thread depth
- Machining of the thread hole and the thread in one operation

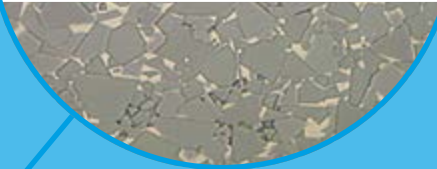
## PORTFOLIO INCLUDES ALL COMMON METRIC DIMENSIONS

M3 - M16



## K20-K30

- Tough-hard ultra-fine grain carbide
- Long tool life in the most difficult materials



## ALTIN

- AlTiN-based PVD coating
- High wear protection
- Ideal for dry machining



### ADVANTAGES

- Only one tool needed to produce threads (core hole – thread profile – safety chamfer)
- Geometry for machining hard and difficult materials up to 63HRc

### CUSTOMER BENEFITS

- No burr at the thread
- High production safety
- High tool life

# NORIS EIR HR K20 TICN

## PROFILE

- Cross-dimensional and cross-pitch thread miller
- Corrected thread profile
- Lower tool costs
- Wide application area



## MKB

- Coolant bore starting at shank dia. 8mm
- High production reliability



## SOLID CARBIDE THREAD MILLING CUTTER WITH ONE ROW OF TEETH

- Dimensional and pitch-crossing thread milling cutter with corrected thread profile
- For threading in almost all materials up to 3xD thread depth

## PORTFOLIO INCLUDES ALL COMMON METRIC DIMENSIONS AND SOME UN DIMENSIONS

M1 - M16

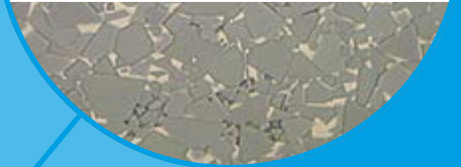
## 3xD

- Type of tool for 2xD and 3xD thread depths
- Solution for high requirements



## K20-K30

- Tough-hard ultra-fine grain carbide
- Long tool life in the most difficult materials



## TICN

- Universal use
- Designed for high thread milling performance
- Long tool life
- Suitable for dry machining



### ADVANTAGES

- Universal profile design allows use for dimensional and pitch crossing application
- Universal geometry for machining almost all materials
- 3xD thread depths also cover unusual requirements

### CUSTOMER BENEFITS

- High production safety
- High tool life
- High flexibility

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THREADING TECHNOLOGY



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