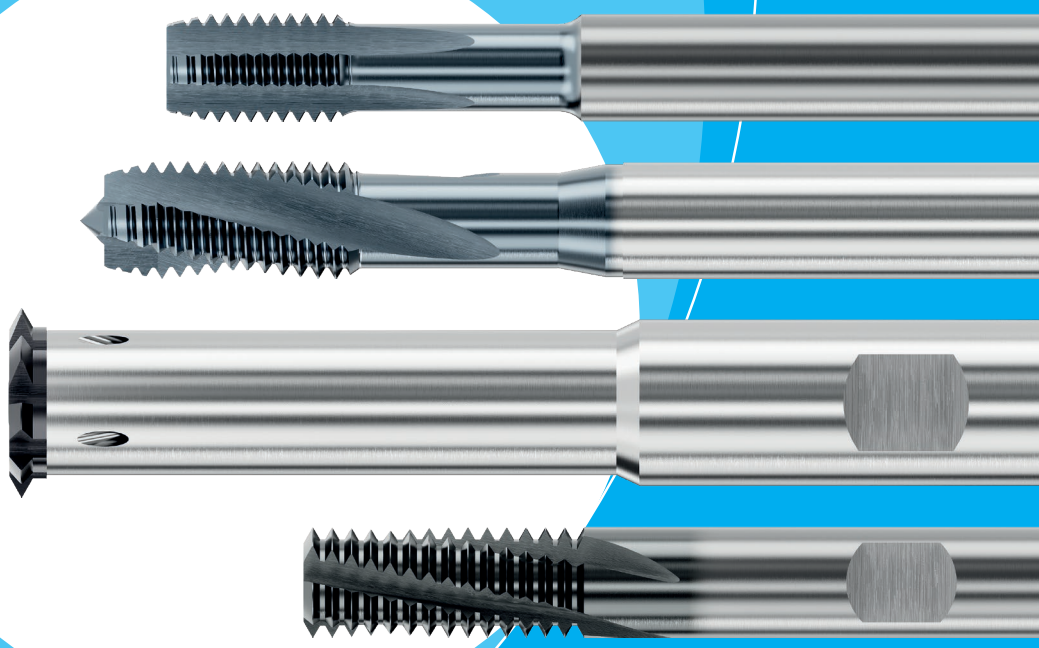
REIME NORIS

OUR PRECISION IS YOUR SUCCESS



NEW PRODUCTS

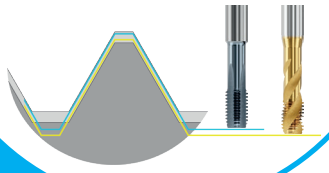
Quality
Made in Germany
ISO 9001 CERTIFIED

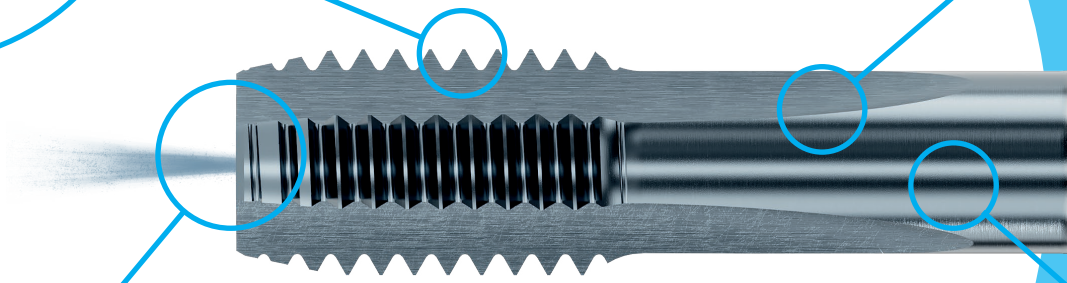
NORIS TWIN GGV MKB HM TICN

ISO 2X

- X-Tolerance

→ Guarantees longer use, especially in abrasive and clamping materials





MKB

- Safe coolant supply

→ High production safety

PORTFOLIO INCLUDES COMMON METRIC DIMENSIONS

M4 to M16 (ISO2X)
M12x1,5 to M20x1,5 (ISO2X)

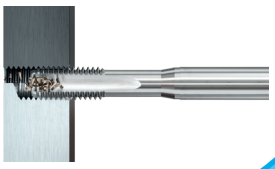
FEATURES

- Special designed geometry for cast materials
- Reduced chamfer length for short thread run out
- High quality basic material
- With internal coolant supply
- Higher number of flutes

GGV

- Straight fluted

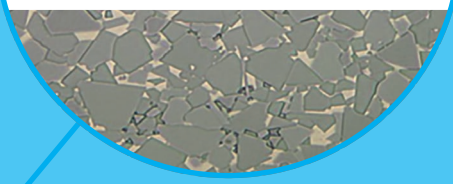
→ Special geometry for modern cast iron (GJL, GJS, GJV)

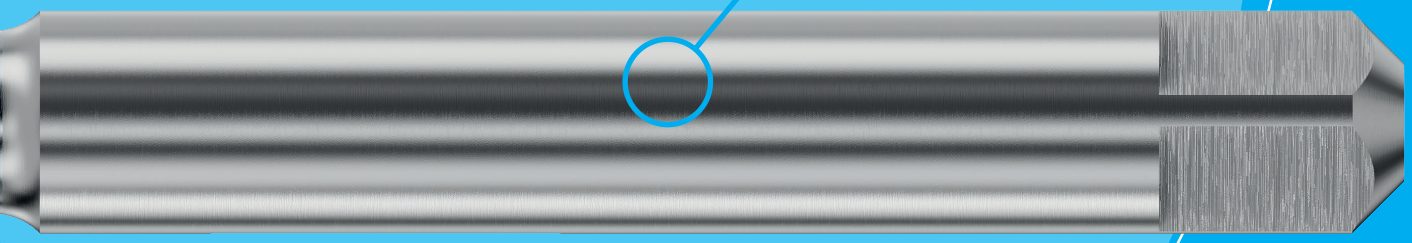


Carbide

- Tough-hard ultrafine grain grade for the processing of extremely hard materials

→ Longer tool life in abrasive materials

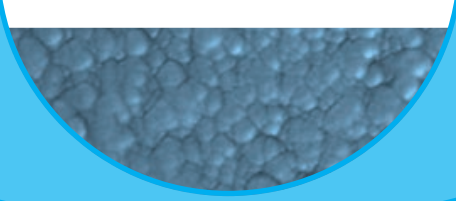




TICN

- A high hardness of more than 3000 HV and low friction values

→ Protects against abrasive wear



P			
M			
K	Cast iron	10 - 80	Emulsion/Dry
N			
S			
H			

ADVANTAGES

- High cutting speed
- High production stability
- Increased wear resistance
- Reduced cold welding and friction
- Solid carbide cutting material, more flutes and optimized geometry for more tool life in abrasive cast materials
- Increased tolerance for more tool life in abrasive or clamping workpiece materials
- TICN coating for less wear and longer tool life

CUSTOMER BENEFITS

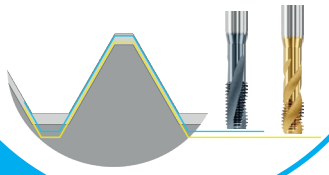
- Long machine run
  → higher productivity
- Increase production safety
  → reduce machine down time

NORIS SL15 TI+ HSSE TICN CS

ISO 2X

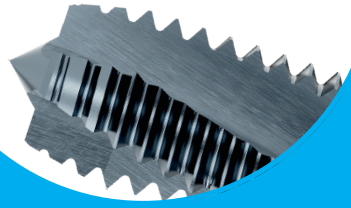
- X-Tolerance

→ Guarantees longer use, especially in abrasive and clamping materials



FORM C + SPIRAL POINT “S”

- Helix reduction in the chamfer, caused by the spiral point, ensures short broken chips



PORTFOLIO INCLUDES COMMON METRIC DIMENSIONS

M3 to M10 (ISO2X)

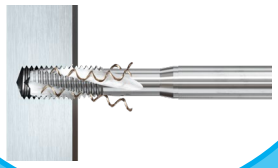
FEATURES

- New developed tap geometry Ti+ for process-reliable thread production in selected titanium alloys
- Helix reduction in the chamfer, caused by the spiral point, ensures short broken chips
- Stable cutting flutes SL15 (R15° flutes) for 2xD thread depth

Ti+

- SL15 (R15° Flutes)

→ process-reliable production of threads in selected titanium alloys

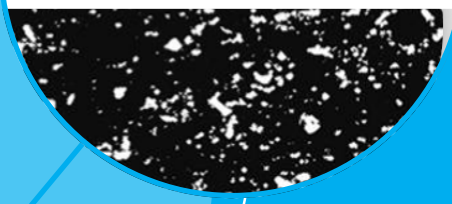


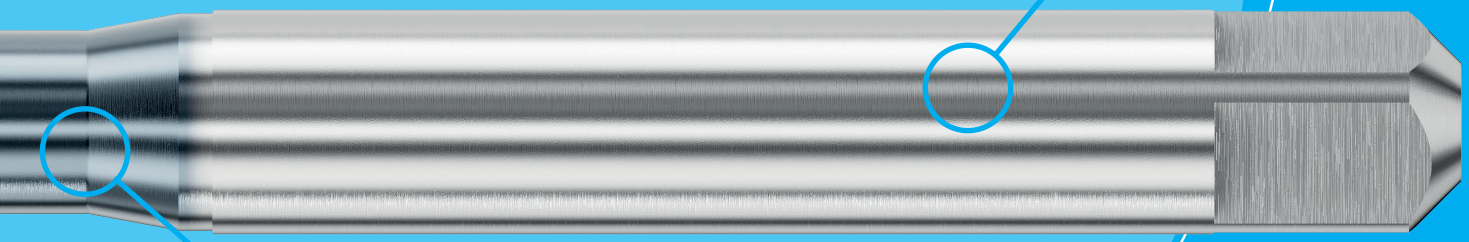
HSSE

- High hardness
- Homogenous structure

→ High wear resistance

→ Extraordinary toughness

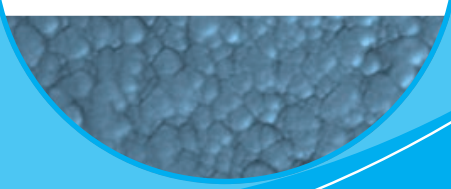




TICN

- A high hardness of more than 3000 HV and low friction values

→ Protects against abrasive wear



P			
M			
K			
N			
S	High res. titanium alloy	2 - 4	Emulsion/Oil
H			

ADVANTAGES

- High tool life
- Reduced problems with chips
- High surface quality
- Additional spiral point for tighter rolled and smaller broken chips
- Large clearance angle prevents cold welding
- High process reliability and excellent thread quality

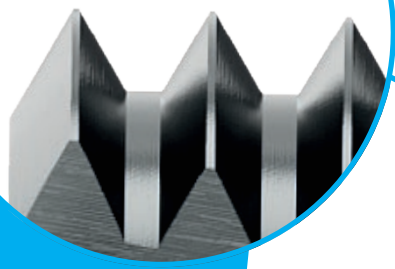
CUSTOMER BENEFITS

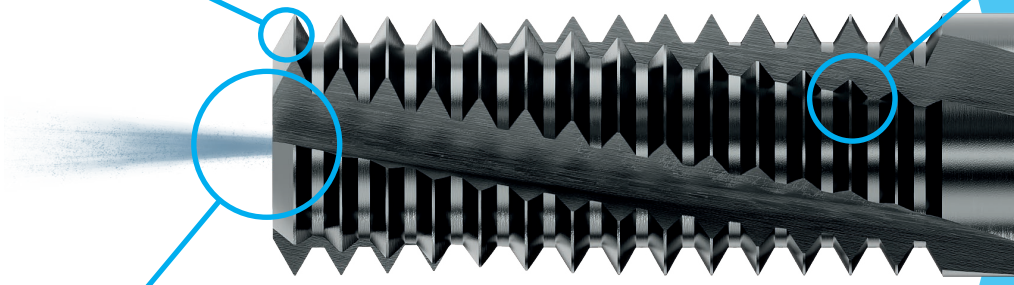
- Less tool costs
  → less investment
- Long machine run
  → higher productivity
- High surface quality
  → better image

NORIS SF R15 UNI MKB 2xD K20

Chamfer

• flexible over front part





MKB

• Safe coolant supply

→ High production safety

PORTFOLIO INCLUDES COMMON METRIC DIMENSIONS

M	M3 to M16
MF	M5x0,5 to M16x1,5
UNC	Nr.10 to 3/4
UNF	Nr.10 to 3/4
G	1/8 to 1“
NPT	1/16 to 2“

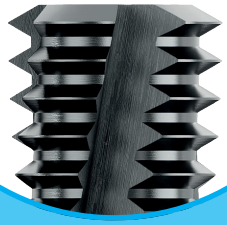
FEATURES

- Universal use possible
- Special developed carbide
- Chamfering section over front part
- Special flute design R15° for smooth milling

UNI

- SFR15 (R15° Flutes)

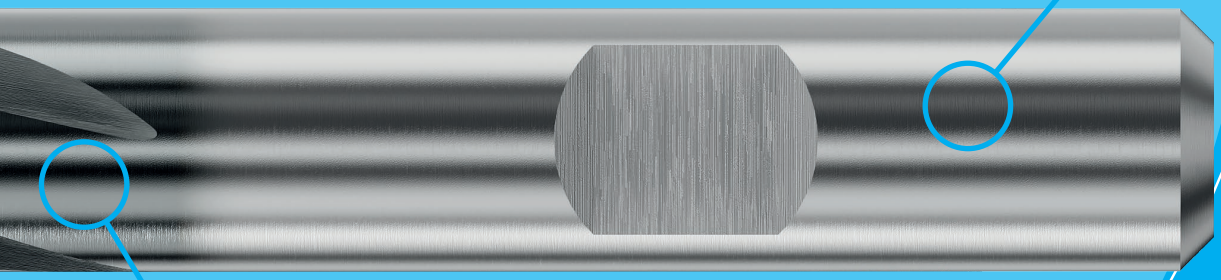
→ In ranges across dimensions, specific pitch



Carbide

- Tough-hard ultrafine grain grade for the processing of extremely hard materials

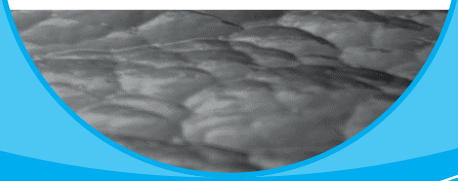
→ Longer tool life in abrasive materials



ACR

- Nanostructured Multilayer coating

→ High cutting edge stability
→ Thermal shock resistant
→ long lifetime



P	Steel <43 HRc	100 - 200	0,04 x P
M	Stainless steels <33HRc	100 - 200	0,035 x P
K	Cast iron	100 - 200	0,045 x P
N	Non ferrous materials	100 - 300	0,06 x P
S	High res. titanium alloy	40 - 80	0,025 x P
H			

ADVANTAGES

- Right- and left hand threads
- Blind- and through holes
- Best chip evacuation
- Smooth milling thanks to flutes with 15° helix angle
- Diameter-independent chamfering of the core hole with face part possible
- For the specific pitch
- Cross-dimension profile design for more flexibility
- Time savings by reducing the required number of tool variants

CUSTOMER BENEFITS

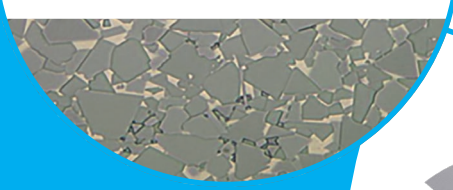
- For universal applications
  → higher flexibility
- High production safety
  → avoid extra work and extra costs
- Reduce tool stock
  → less investment

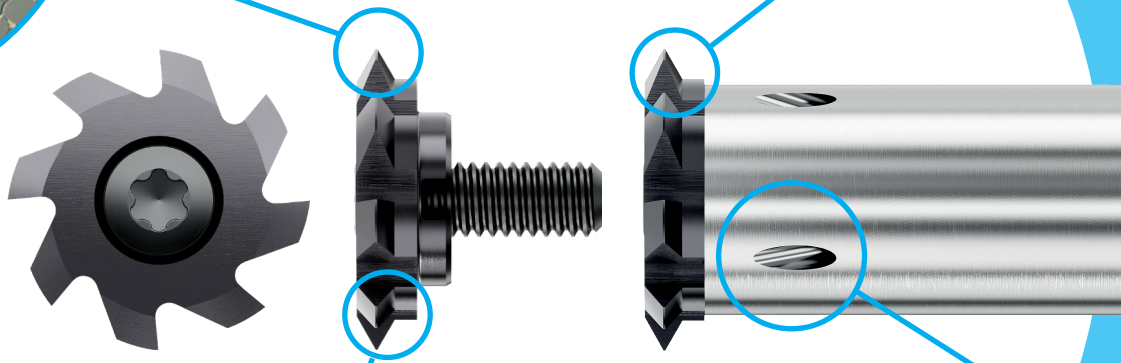
NORIS NES-Z MKBR + NORIS HM-SP ACR

Carbide

- Tough-hard ultrafine grain grade for the processing of extremely hard materials

→ Longer tool life in abrasive materials

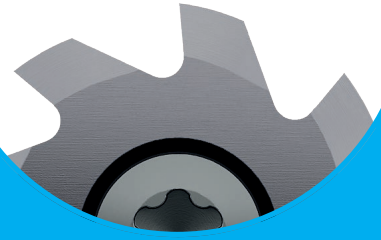




UNI

- Universal geometry

→ In ranges across dimensions pitch rage depending on insert



PORTFOLIO INCLUDES COMMON METRIC DIMENSIONS

M	M12 to M36
MF	Depending on gradient range
UN	Depending on gradient range
G	1/4 to G 1 1/8

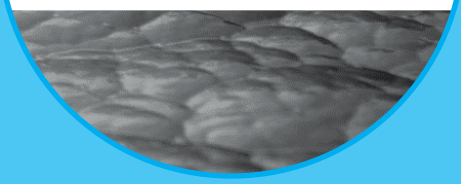
FEATURES

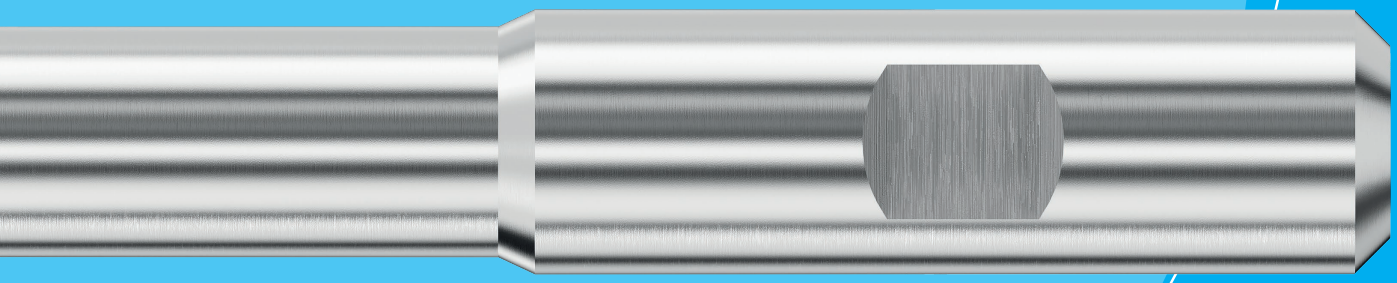
- Exchangeable carbide face instert
- Holder out of tool steel (2xD and 2,5xD)
- Universal geometry

ACR

- Nanostructured Multilayer coating

→ High cutting edge stability
→ Thermal shock resistant
→ long lifetime





MKBR

- Safe coolant supply

→ High production safety

P	Steel <43 HRc	40 - 250	0,04 x P
M	Stainless steels <33HRc	30 - 120	0,03 x P
K	Cast iron	30 - 120	0,06 x P
N	Non ferrous materials	80 - 250	0,065 x P
S	High res. titanium alloy	30 - 100	0,02 x P
H	Hardened steels <63HRC	30 - 60	0,02 x P

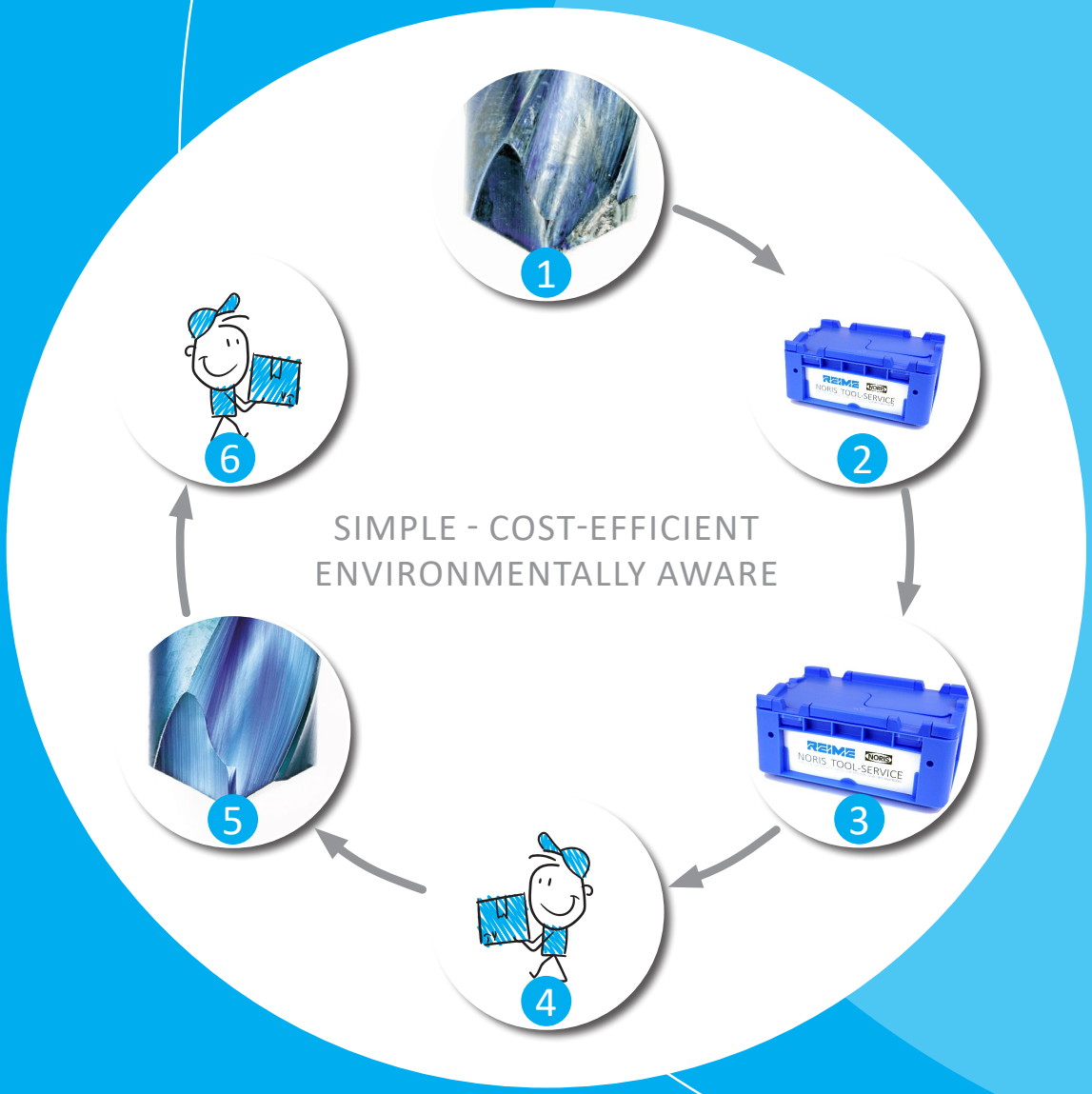
ADVANTAGES

- Vibration-free
- Thread sizes ≥ M12, MF, UN and G
- One holder fits different inserts (60° and 55°)
- High flexibility
- High production safety
- Easy handling
- Consistently high path feeds reduce cost-intensive machining times
- Highest flexibility and perfect workpiece quality for an economical and reliable thread production

CUSTOMER BENEFITS

- Reduce stock keeping
  → less investment
- Avoid work piece damage
  → higher productivity

NORIS TOOL-SERVICE



Reduce your tool costs and extend the lifetime of your tools with the NORIS TOOL SERVICE.

Your precision regrinding service for highest quality demands.

1 Tool(s) are damaged or worn out

2 Ask for our TOOL SERVICE BOX

3 Fill our TOOL-SERVICE-BOX

4 Send in the TOOL SERVICE BOX

5 The NORIS TOOL SERVICE ensures optimum preparation of your tools - including coating.

6 We will return the TOOL-SERVICE-BOX to you

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