

# MENALLURG



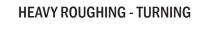
# METALLURGY

# WE LIKE THE METAL ...

In the Metallurgy segment we focus on removing the first layer of material from large-scale forgings, castings, rolling, welding and oxy-acetylene cut work pieces. These are operations that require high reliability of cutting tools working in very hard conditions. Through long-term cooperation with leading factories in many countries, we have specialized the production of tools for:













**HEAVY ROUGHING - MILLING** 



### SCARFING











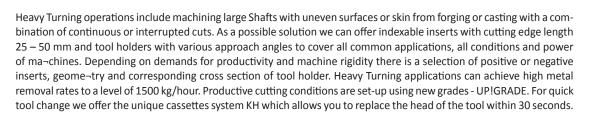
### **CHAMFERING OF PIPES**



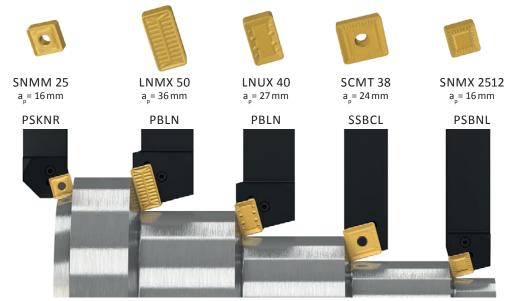
# MENALLURGY

BAR PEELING





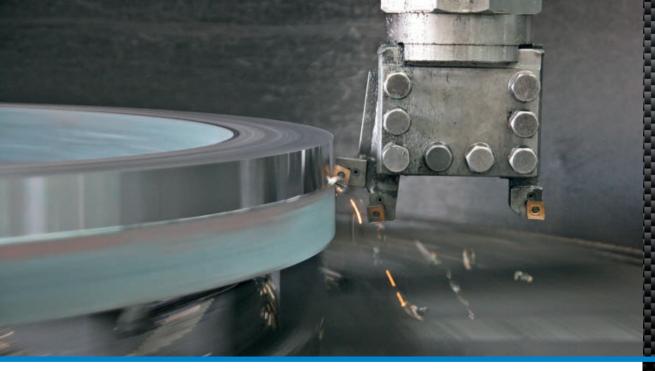
### LET'S CHOOSE THE MOST EFFICIENT TOOLS FOR YOU



### **ARE YOU LOOKING FOR QUICK CHANGE?**



REANT TURNING



In case of specific needs of various technologies or special machine tools or clamping systems, we can offer a service to develop and manufacture Tailor made tools. We enjoy any challenge to find the solution for non-standard applications.

### TRIPLE PRODUCTIVITY

Inserts: 3x LNUX 40, a = 80mm

### DOUBLE DEPTH OF CUT

Inserts: 2x LNUX 40 a = 50mm



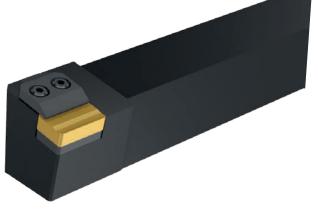
**SMART AND STRONG** 

Cartridge: KHS-LOMR08 Inserts: LOMT 08 SI SI

### SMART AND STRONG

Tool holder cross-section 100x100 with cartridges KH





HIGH RELIABILITY FOR HARD SHAFTS

> Inserts: LNUN 42 a<sub>p</sub>=30mm

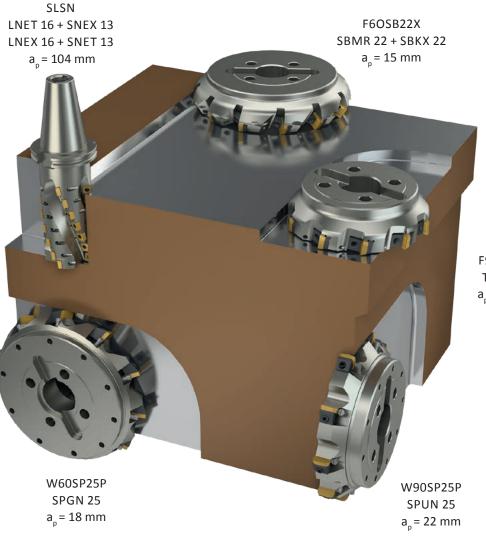
## METALLURG



### **RELIABLE AND PRODUCTIVE IN EXTREMELY HARD CONDITIONS**

Heavy Milling operations often involve machining complicated castings which could be polluted by sand or forgings with hard skins or scale. Our aim is to offer an optimal solution based upon the rigidity of machine, workpiece clamping, machine power and customer requirements.

Depending on the approach angle we can divide the tools into groups: Face milling cutters, Shoulder milling cutters 90°, Helical milling cutters, Chamfer milling cutters and Special milling cutters. The main priorities are high metal removal rate and reliability of cutting edge. Insert reliability is provided by using our new grades - UP!GRADE and high efficiency is achieved by unique Milling cutters developed for Heavy Milling applications.



F9OSB22X TBMR 27 a<sub>p</sub> = 18 mm

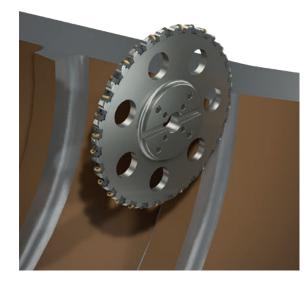


### WE ARE LOOKING FORWARD TO YOUR CHALLENGE

Our experienced designers have developed many special tools for Heavy Roughing operations. We have provided many successful solutions for T-slot cutters, large diameter Disc milling cutters, Specific shape cutters and special Tangential milling cutters.



Set of cutters for machining a special profile in Hardox 500





Cutter body for radius R36 Inserts: LPEX 19



Cutter body for T- slot 250x160 Inserts: LCEX 19, CNM 563;

Cutter body D=560 Inserts: XNHQ 16; XCEW 14

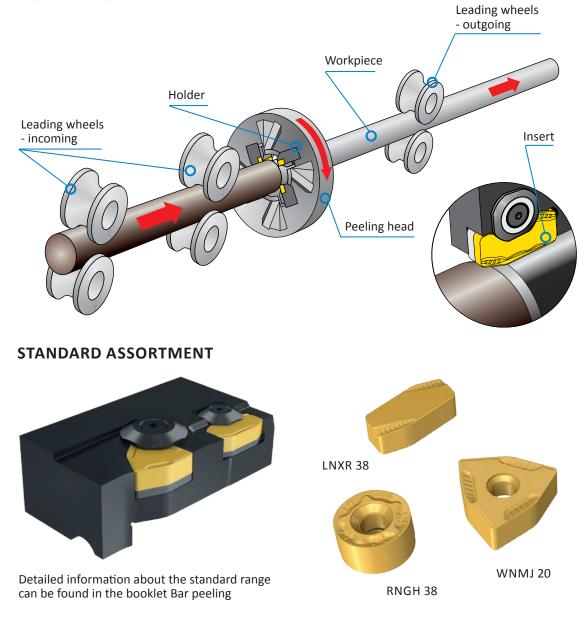
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METALLURGY



### PEELING WITH SIGNIFICANT REDUCTION OF VIBRATIONS

In Bar Peeling applications, the most important criteria are high productivity, dimensional accuracy of machined bars and excellent surface quality. After many years of experiences we offer a wide range of inserts with specific geometries suitable for Steel, Stainless steel as well as Difficult to machine materials. Clamping systems and cassettes can be provided on request.



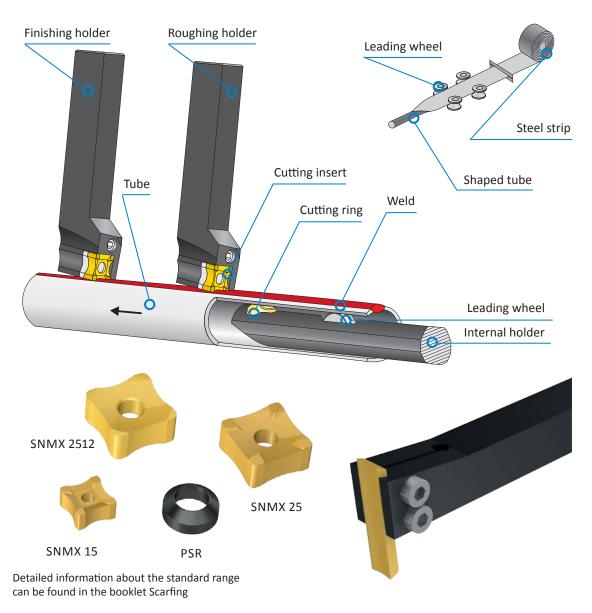
BAR PEELING





### WHEN SMOOTH SURFACE IS NEEDED

Cutting the weld deposit is one of last operation during tube production. The main requirement of this application is very good surface quality, high productivity with minimum defects on the weld. We can offer a complete set of tool holders and wide range of indexable inserts for external as well as internal operations. Tools are designed for all common tube diameters.







### SPECIAL THREADING TOOLS FOR TUBES INDUSTRY

We offer a large line of threading tools for Tube producers. These tools are designed for Standard thread profiles as well as Special profiles. Precise indexable inserts are manufactured using specific technology in order to achieve unique cutting edge quality and profile precision. Our priority is customer satisfaction. Pramet Tools also offer many special tools used for tube pre-threading operations.





### EDGE PREPARATION FOR SAFETY WELDS

We can meet the requirements for different edge preparation depending on the application of the Tube production – including chamfering of metal sheets before forming of tubes diameters up to 1500 mm or bevelling the face of pipes. We offer solutions for a wide range of chamfer angles and chamfer widths, suitable for various machined materials and types of weld. Our range of chamfering tools are developed by our Custom tools department to fulfil any of your needs.





## METALLURGY

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