

# Coatings and its applications

## Coatings on RUKO precision tools

	Drill				Thread			
	HSS	HSSE-Co 5	HSSE-Co 8	Tungsten carbide	HSS	HSSE-Co 5	HSSE-Co 8 not in our product range	Tungsten carbide not in our product range
Steel (N/mm <sup>2</sup> ) < 900 Thread: Steel (N/mm <sup>2</sup> ) < 800	TiN TiAlN	TiAlN		TiAlN AlTiN	TiN	TiAlN TiCN		
Steel (N/mm <sup>2</sup> ) < 1.100 Thread: Steel (N/mm <sup>2</sup> ) < 1.000	TiAlN	TiAlN	TiAlN	TiAlN AlTiN		TiAlN TiCN		
Steel (N/mm <sup>2</sup> ) < 1.300 Gewinden: Steel (N/mm <sup>2</sup> ) < 1.200			TiAlN	TiAlN AlTiN		TiAlN		
Stainless steel	TiAlN	TiAlN	TiAlN	TiAlN AlTiN		TiAlN TiCN		
Aluminium	TiN* TiAlN	TiAlN	TiAlN	TiAlN AlTiN	TiN*			
Brass	TiN TiAlN	TiAlN	TiAlN	TiAlN AlTiN	TiN	TiAlN TiCN		
Bronze	TiAlN	TiAlN	TiAlN	TiAlN AlTiN		TiAlN		
Plastics	TiN TiAlN	TiAlN	TiAlN	TiAlN AlTiN				
Cast iron			TiAlN	TiAlN AlTiN				
Titanium alloyed			TiAlN	TiAlN AlTiN				

	Mill				Sink			
	HSS not in our product range	HSSE-Co 5 not in our product range	HSSE-Co 8 not in our product range	Tungsten carbide	HSS	HSSE-Co 5	HSSE-Co 8 not in our product range	Tungsten carbide only uncoated
Steel (N/mm <sup>2</sup> ) < 900 Thread: Steel (N/mm <sup>2</sup> ) < 800				TiCN	TiN TiAlN RUnATEC	TiAlN RUnATEC		
Steel (N/mm <sup>2</sup> ) < 1.100 Thread: Steel (N/mm <sup>2</sup> ) < 1.000				TiCN	TiAlN	TiAlN RUnATEC		
Steel (N/mm <sup>2</sup> ) < 1.300 Thread: Steel (N/mm <sup>2</sup> ) < 1.200				TiCN		RUnATEC		
stainless steel				TiCN	TiAlN RUnATEC	TiAlN RUnATEC		
Aluminium					TiN* TiAlN RUnATEC	TiAlN RUnATEC		
Brass				TiCN	TiN TiAlN RUnATEC	TiAlN RUnATEC		
Bronze								
Plastics					TiN TiAlN RUnATEC	TiAlN RUnATEC		
Cast iron				TiCN				
Titanium alloyed				TiCN				

\* only with stationary machine tools using forced liquid cooling and return the tool back again and again during machining to break the chip.

