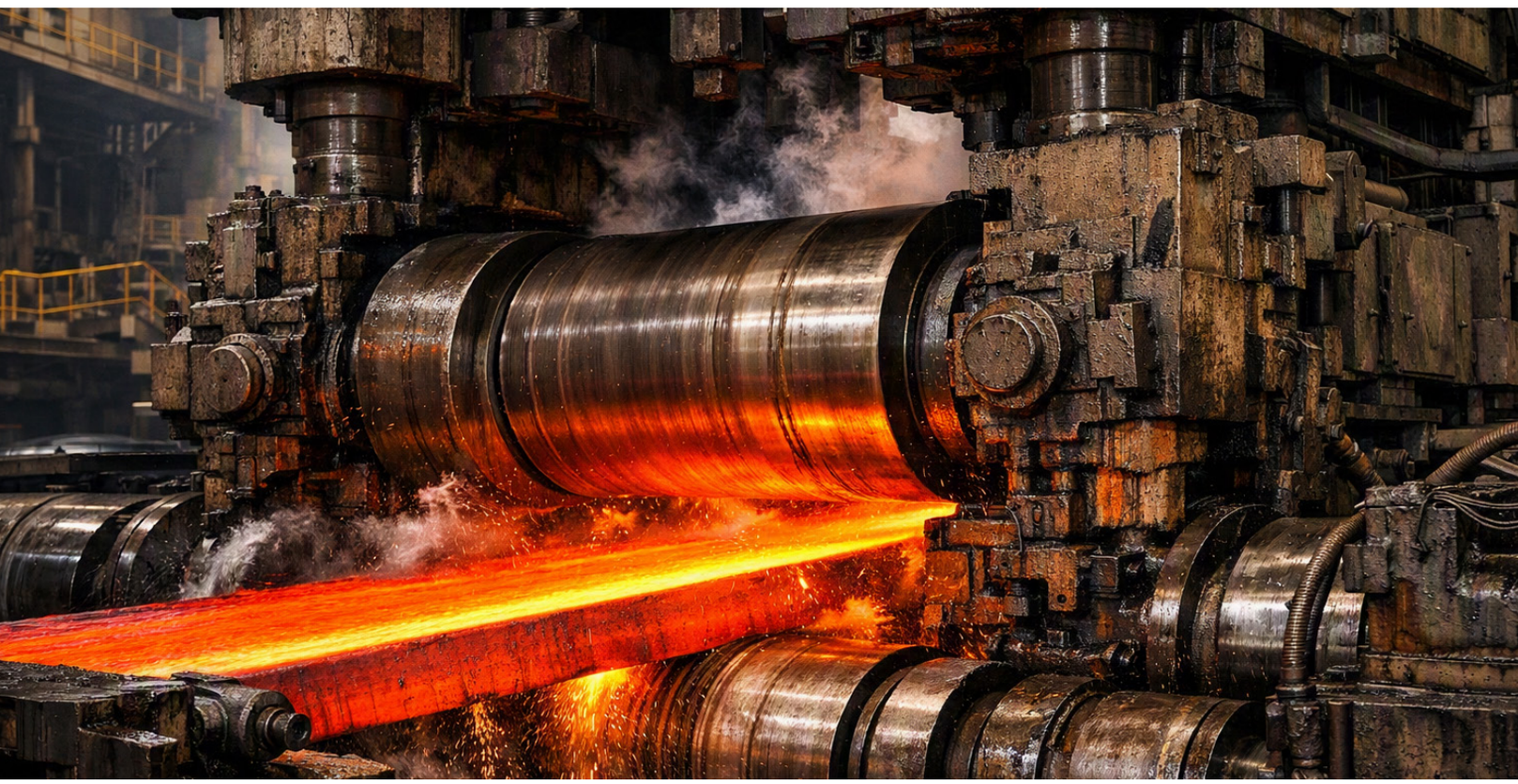
EHWA
SINCE 1975

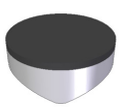
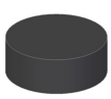
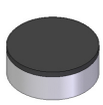
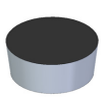
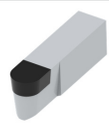
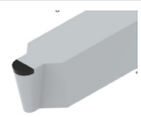
STEEL ROLL INDUSTRY

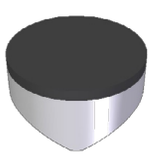


EHWA DIAMOND

EHWA DIAMOND TOOLS
FOR TURNING

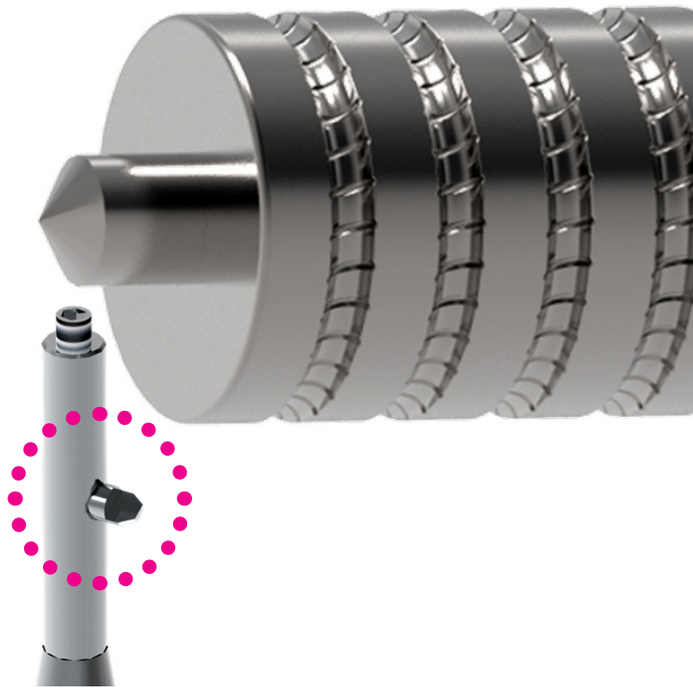
The tool shapes and grades are determined by turning process and roll types and shapes. Roll materials vary from gray cast iron with low hardness to carbide rolls with high hardness. EHWA can provide the optimal solution with various tool materials such as PCD, PCBN, Ceramic and other materials.

RCGX-SD	RCGX-FF	RNGN-SD	RNGS-FF	RAGN	RBG	RTG	NSC1	NSC2
								
HBN-R	EB51,EB71X	HBN-R	EB51,EB71X	EB51,EB71X	EB51,EB71X	EB51,EB71X	EB51,EB71X	EB51,EB71X

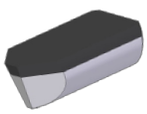
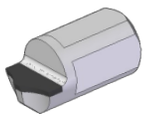
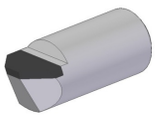
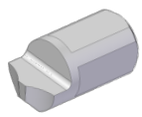
	EHWA	COMPETITOR
Workpiece	Powder metal (Cpm9v)	
Hardness (Hs)	70	
Continuous / Interrupt	Continuous	
Size	480D x 800L	
RPM (rev)	20~25	
Depth of cut (mm)	1.5~2	
Feed (mm/rev)	0.25	
Tool grade	RCGX1207 EB51 (PCBN)	RCGX1207 Whisker ceramic
Test result	1EA (Rough + finish)	0.5EA (Rough)
Tool failure	Normal wear (positive)	Fracture (negative)
Test result 	1 0.5 0 EHWA	Competitor

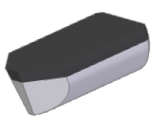
EHWA
SINCE 1975

EHWA DIAMOND TOOLS
FOR NOTCHING



Notching tools are used to make grooves on the rebar, including materials such as steel or carbide rolls. EHWA can provide the optimal solution with various tool materials such as PCD, PCBN and carbide.
Achieving a precise notching profile requires high geometrical accuracy of the tool. Equipped with advanced processing equipment including wire EDM, profile grinding and laser machining, EHWA achieves tight tolerances.

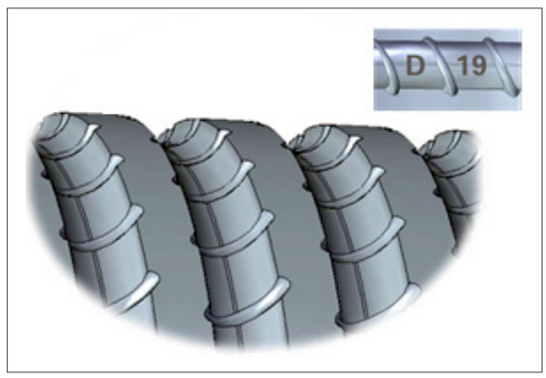
PCD-FT	PCD-HT	PCBN-FT	PCBN-HT	TC NOTCH
				
EP75, EP59	EP75, EP59	EB51, EB71X	EB51, EB71X	K01, K100, K200

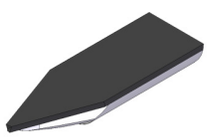
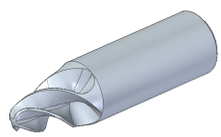
	EHWA	COMPETITOR
Workpiece	Tungsten carbide roll	
Hardness (HRA)	80 (WC 70%, Co 30%)	
Continuous / Interrupt	Interrupt	
Size	500D-1000L	
RPM (rev)	100	
Depth of cut (mm)	2	
Feed (mm/rev)	0.02	
Tool grade	N10 4D-7L FT EP75	PCD
Test result	2 grooves	1 groove
Tool failure	Surface quality	Surface quality
Test result 	2 1 0 EHWA	Competitor

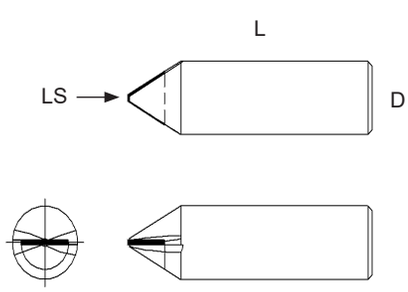
EHWA DIAMOND TOOLS

MARKING TOOLS

Marking is a process of engraving specifications on rolls, typically using PCD, carbide or electroplated wheels. EHWA achieves high-precision shaping through 3D laser processing and precision grinding, while ensuring long tool life by selecting materials optimized to the properties of roll materials.



FULL TOP	BRAZED	CARBIDE-FLAT	CARBIDE-HELIX
			
EP75, EP59	EP75, EP59	EB51, EB71X	EB51, EB71X

SPEC	Φ (mm)	L (mm)	LS	Drawing
N8	8.00	30.00	0.6	
N10	8.00	30.00	0.8	
N14~N16	8.00	30.00	1	
N20~N25	8.00	30.00	1.2	
N32	8.00	30.00	1.5	

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