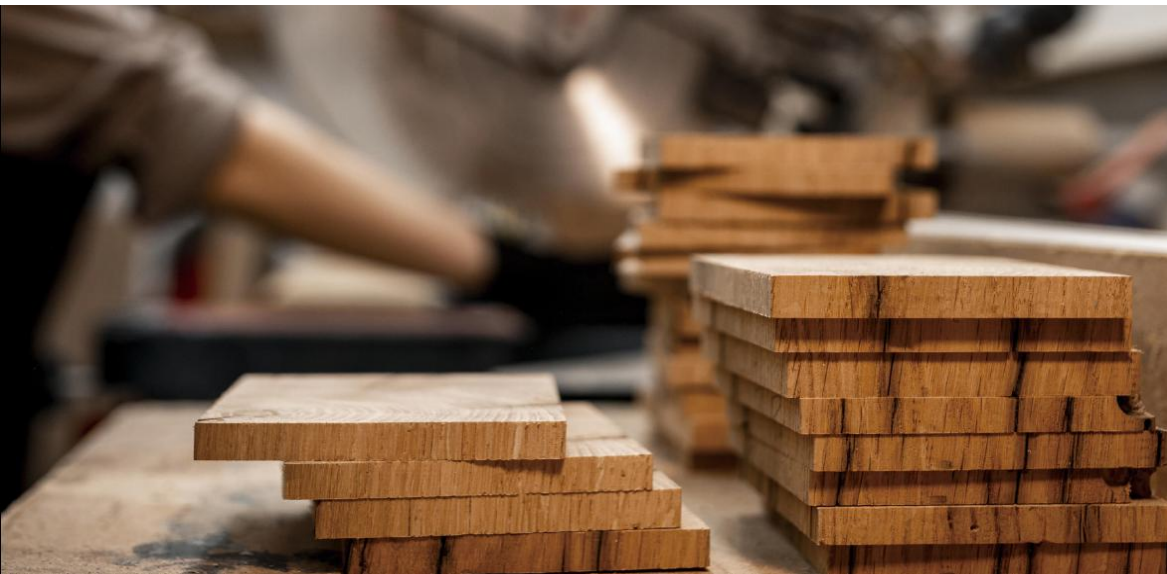


PCD- und TCT-Werkzeuge für Holzwerkstoffplatten

PCD & TCT TOOLS FOR WOOD-BASED PANELS

EHWA
SINCE 1975



EHWA develops tools that support various processing methods, including milling, cutting, end milling, and grooving, in the woodworking industry. EHWA offers a wide variety of customized tools for edge banders and the shipbuilding industry.

EHWA DIAMOND / WORLD BEST DIAMOND TOOL



Anwendung



TCT SAW BLADE (TCT-Sägeblatt)

- TCT saw blade offers excellent wear resistance and smooth, precise cuts.
- Tooth geometries are optimized for specific applications, machines, and cutting operations(e.g., crosscutting, grooving), and feed directions (horizontal or vertical cutting).
- Outer diameter available from Ø80 to Ø1,300 mm.



PCD Saws
Cutting, Grooving, Rebating,
Planing Universal

PCD SAW BLADE (PCD-Sägeblatt)

- PCD saw blade offers superior durability and wear resistance.
- Delivers up to 30 to 50 times longer tool life than conventional TCT saw blades, depending on application and operating conditions.
- Ideal for mass production.
- Outer diameter available from Ø80 to Ø1,300 mm.



Anwendung



PCD HOGGER CUTTER (PCD-Zerspaner)

PCD Hogger is a woodworking tool designed to efficiently remove excess material, typically from the edges of wood or wood-based panels during manufacturing.

- Rapid removal of surplus material from panel edges.
- Delivers clean, tear-free cuts.
- Outer diameter available from Ø220 to Ø260 mm.

PCD A/T CUTTER (PCD-A/T-Fräser)

PCD A/T cutter is a tool used on edge banding machines to Prepare the panel edges before edge banding application. It removes imperfections such as unevenness, ripple marks, or burrs left from previous cutting operations, ensuring a smooth, flat surface for optimal adhesion of the edge banding material.

- Precision trimming of panel edges prior to banding.
- Enhances adhesive bonding by improving surface quality.
- Contributes to higher edge finish quality and consistent processing.
- Outer diameter available from Ø80 to Ø250 mm.



Anwendung



PCD ROUTER BIT / TCT ROUTER BIT (PCD-Oberfräser / TCT-Oberfräser)

PCD and TCT router bit are cutting tools used with a woodworking router to shape, trim, and detail wood surfaces. They come in a wide variety of shapes and sizes, each tailored for specific types of cuts and finishes—such as grooving and edge profiling.

- Outer diameter available from Ø3 to Ø100 mm.

BORING / HINGE BIT (Bohrer / Scharnierlochbohrer)

Boring and hinge bit are designed for high-precision drilling holes in wood and wood-based panels. They provide precise processing with long-lasting durability.

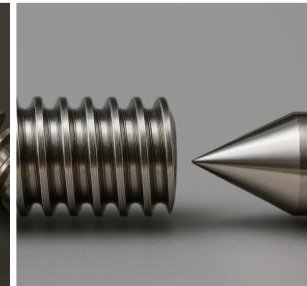
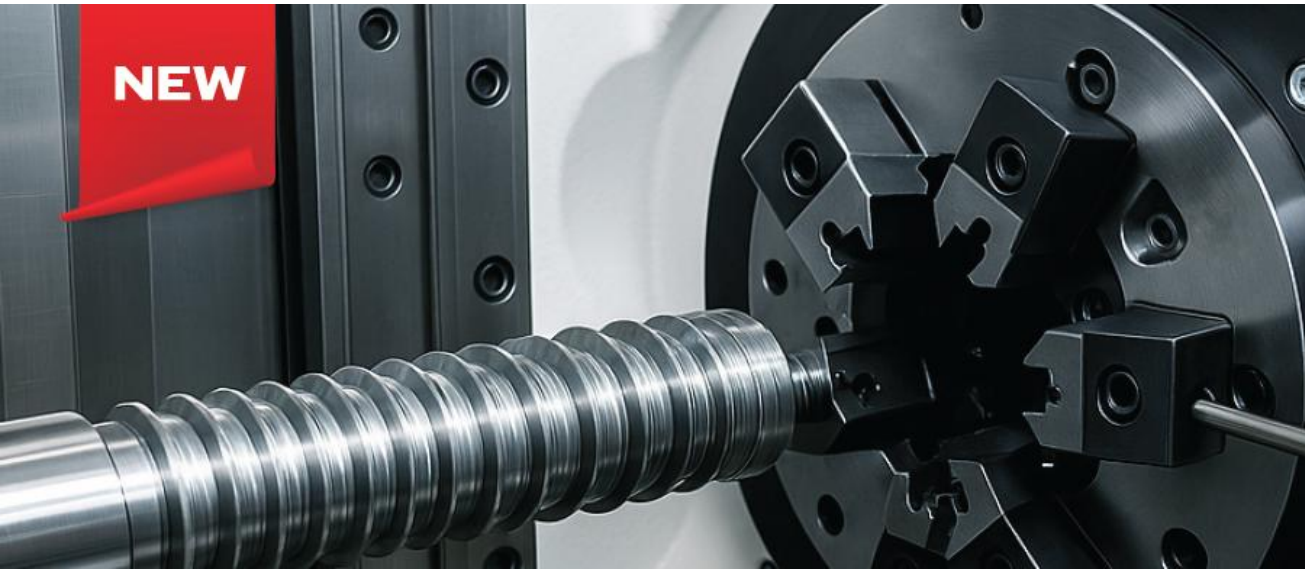
- Available in both through-hole and blind-hole types
- Outer diameter available from Ø3 mm and above .



Gewindewirbelwerkzeug

EHWA
SINCE 1975

WHIRLING TOOL



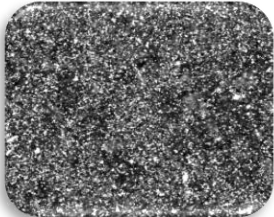
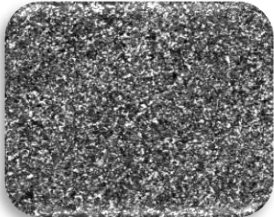
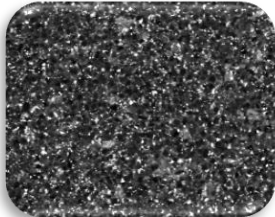
- High-precision gothic arch and contact angle.
- Consistent repeatability with CNC machining.
- Custom design available based on customer needs.
- Cost-effective through relapping.

EHWA DIAMOND / WORLD BEST DIAMOND TOOL



PCBN GRADE

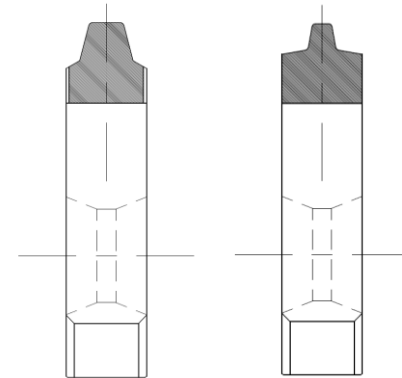
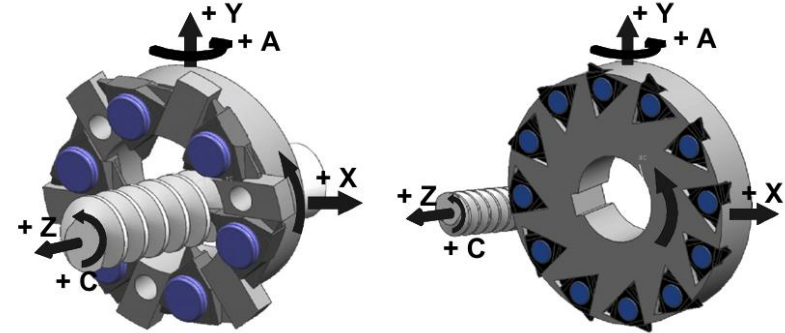
PCBN-Sorte

	EB510	EB73	EB12
Grain size (μm)	2	1	2
Diamond vol (%)	95	70	90
Application	Ball Screw	Ball Screw	Worm Gear
Characteristic	Better toughness Better wear- resistance	Good wear- resistance	Better wear- resistance Solid shape
	Toughness	Toughness	Toughness
	Wear resistance	Wear resistance	Wear resistance
	Cost benefit	Cost benefit	Cost benefit
Micro structure (x1,000)			



Whirling by 16T-5W-(R),EB12, 16T-5W-(F),EB12 (Wirbeln mit 16T-5W-(R), EB12 / 16T-5W-(F), EB12)

	EHWA	COMPETITOR
Workpiece		
Hardness(Hs)	-	
Continuous/interrupt	Continuous	
Size		
Rpm (rev)	4,000	
Depth of cut(mm)		
Feed (mm/rev)	25,000	
Tool grade	EB12 (PCBN)	TC
Test result	100EA	22EA
Tool failure	Normal wear	Normal wear
Test result	100 80 60 40 20 0  EHWA  COMP	

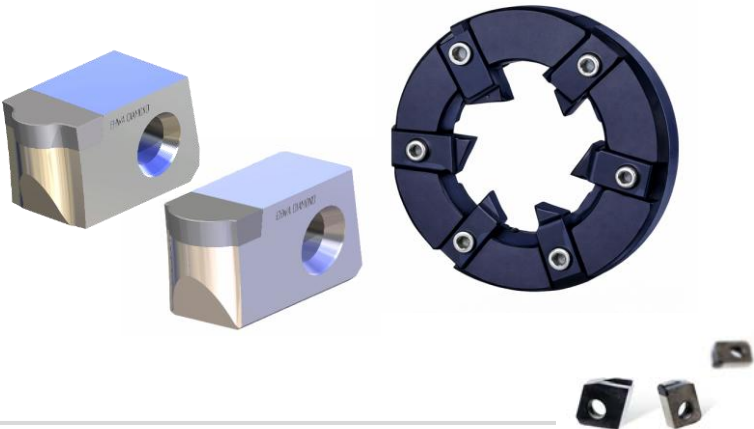


TEST HISTORY

Testhistorie

Whirling by 13.5T-22.6L-5W-3.175D,EB73 (Wirbeln mit 13.5T-22.6L-5W-3.175D, EB73)

	EHWA		COMPETITOR
Workpiece	CF53		
Hardness(Hs)	HRC 57~63		
Continuous/interrupt	Continuous		
Size			
Rpm (rev)	2,000		
Depth of cut(mm)			
Feed (mm/rev)			
Tool grade	EB73 (PCBN)		PCBN
Test result	750 m		650 m
Tool failure	Normal wear		Normal wear
Test result	800 600 400 200 0 EHWA		COMP



AUTOMATIC

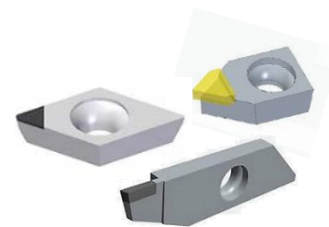
Anwendungen für Drehautomaten

LATHE APPLICATION

EHWA
SINCE 1975



EHWA DIAMOND / WORLD BEST DIAMOND TOOL



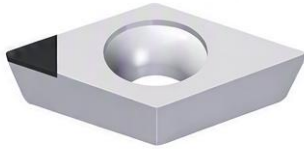
Für das Langdrehen

FOR SWISS TURNING

EHWA
SINCE 1975

ISO INSERT

ISO-Schneidplatte



GROOVING & PARTING

Einstechen und Abstechen



ROTATING (DRILL & ENDMILL)

Rotierende Werkzeuge
(Bohrer und Schaftfräser)



THREADING INSERT

Gewindedrehschneidplatte



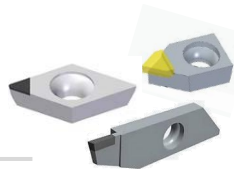
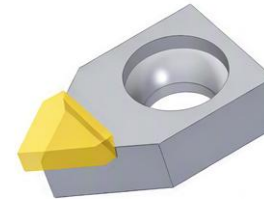
BORING TOOL

Bohrwerkzeug



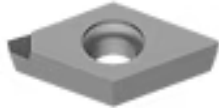
OTHER TOOLS

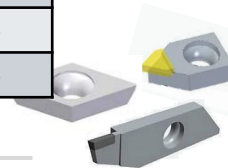
Weitere Werkzeuge



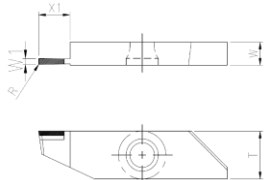
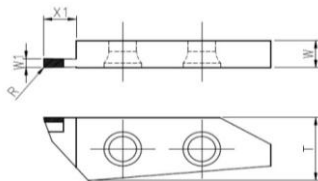
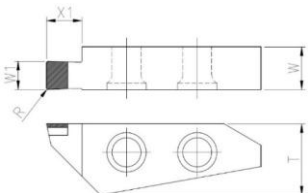
ISO INSERT FOR SWISS TURNING

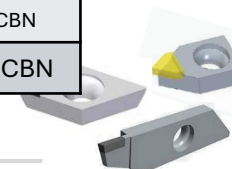
ISO INSERT (ISO-Schneidplatte)

	V TYPE	I.C	T	R	GRADE
	VCGT070201	3.97	2.38	0.1	EP20, EP75
	VCGT070202	3.97	2.38	0.2	EP20, EP75
	VCGT070204	3.97	2.38	0.4	EP20, EP75
	VCGT080201	4.76	2.38	0.1	EP20, EP75
	VCGT080202	4.76	2.38	0.2	EP20, EP75
	VCGT080204	4.76	2.38	0.4	EP20, EP75
	VCGT110301	6.35	3.18	0.1	EP20, EP75
	VCGT110302	6.35	3.18	0.2	EP20, EP75
	VCGT110304	6.35	3.18	0.4	EP20, EP75
	VCGT110308	6.35	3.18	0.8	EP20, EP75
	D TYPE	I.C	T	R	GRADE
	DCGT070201	6.35	2.38	0.1	EP20, EP75
	DCGT070202	6.35	2.38	0.2	EP20, EP75
	DCGT070204	6.35	2.38	0.4	EP20, EP75
	DCGT11T301	9.525	3.97	0.1	EP20, EP75
	DCGT11T302	9.525	3.97	0.2	EP20, EP75
	DCGT11T304	9.525	3.97	0.4	EP20, EP75
	DCGT11T308	9.525	3.97	0.8	EP20, EP75

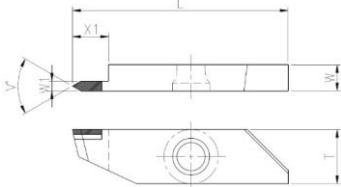


EMG TYPE

	EMG	W1	X1	R	W	L	T	GRADE
	EMG 05000-L/R	0.5	3.0	0.00	2.7	22.2	5.6	TC, PCD, PCBN
	10005-L/R	1.0	3.5	0.00	2.7	22.2	5.6	TC, PCD, PCBN
	15005-L/R	1.5	3.5	0.05	2.7	22.2	5.6	TC, PCD, PCBN
	2001-L/R	2.0	4.0	0.10	2.7	22.2	5.6	TC, PCD, PCBN
	2501-L/R	2.5	4.0	0.10	2.7	22.2	5.6	TC, PCD, PCBN
	EMG2	W1	X1	R	W	L	T	GRADE
	EMG2 05000-L/R	0.5	3.0	0.00	3.0	23.0	7.0	TC, PCD, PCBN
	10005-L/R	1.0	3.5	0.00	3.0	23.0	7.0	TC, PCD, PCBN
	15005-L/R	1.5	3.5	0.05	3.0	23.0	7.0	TC, PCD, PCBN
	2001-L/R	2.0	4.0	0.10	3.0	23.0	7.0	TC, PCD, PCBN
	2501-L/R	2.5	4.0	0.10	3.0	23.0	7.0	TC, PCD, PCBN
	EMG3	W1	X1	R	W	L	T	GRADE
	EMG3 3001-L/R	3.0	4	0.1	6.0	30.3	10.2	TC, PCD, PCBN
	3501-L/R	3.5	4	0.1	6.0	30.3	10.2	TC, PCD, PCBN
	4002-L/R	4.0	5	0.2	6.0	30.3	10.2	TC, PCD, PCBN
	4502-L/R	4.5	5	0.2	6.0	30.3	10.2	TC, PCD, PCBN
	5002-L/R	5.0	5	0.2	6.0	30.3	10.2	TC, PCD, PCBN

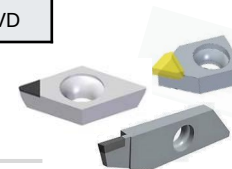


EMT TYPE

	EMT	W1	X1	T	W	L	V	GRADE
	EMT 10000-L/R	1.0	3.7	5.6	2.7	22.2	25~60	TC, PCD, PCBN, CVD
	10005-L/R	1.0	3.7	5.6	2.7	22.2	25~60	EP20, EP75
	15005-L/R	1.5	3.7	5.6	2.7	22.2	25~60	EP20, EP75
	2001-L/R	2.0	3.7	5.6	2.7	22.2	25~60	EP20, EP75
	2501-L/R	2.5	3.7	5.6	2.7	22.2	25~60	EP20, EP75

BS TYPE

	BSR/L	R	V1	V2	L	D	Dm	R	GRADE
	BSR/L 25 60 005	0.05	15	15	60	2.5	3	0.0 5	TC, PCD, PCBN, CVD
	25 60 01	0.1	15	15	60	2.5	3	0.1	TC, PCD, PCBN, CVD
	30 60 005	0.05	15	15	60	3	3.5	0.0 5	TC, PCD, PCBN, CVD
	30 60 01	0.1	15	15	60	3	3.5	0.1	TC, PCD, PCBN, CVD
	40 60 01	0.1	15	15	60	4	4.5	0.1	TC, PCD, PCBN, CVD
	40 60 02	0.2	15	15	60	4	4.5	0.2	TC, PCD, PCBN, CVD
	50 60 01	0.1	15	15	60	5	5.5	0.1	TC, PCD, PCBN, CVD
	50 60 02	0.2	15	15	60	5	5.5	0.2	TC, PCD, PCBN, CVD



VARIOUS SPECIAL TOOLS

CUSTOMISED

Kundenspezifisch

