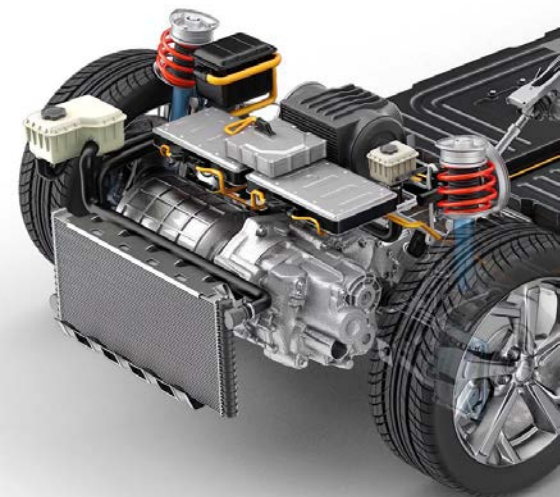


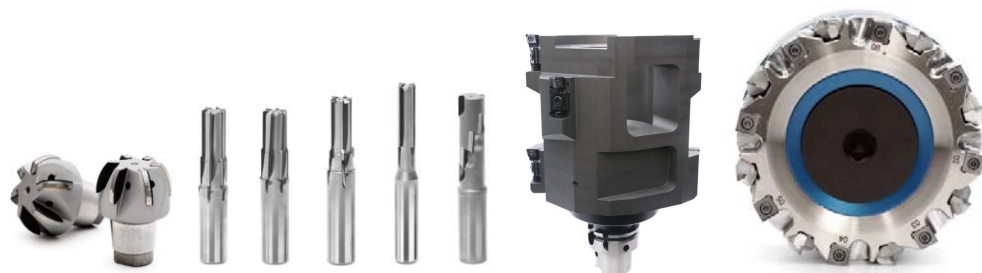
Elektrofahrzeug

ELECTRIC VEHICLE

EHWA
SINCE 1975



EHWA DIAMOND / WORLD BEST DIAMOND TOOL



SPECIAL BORING TOOL FOR MOTOR HOUSING

EHWA
SINCE 1975

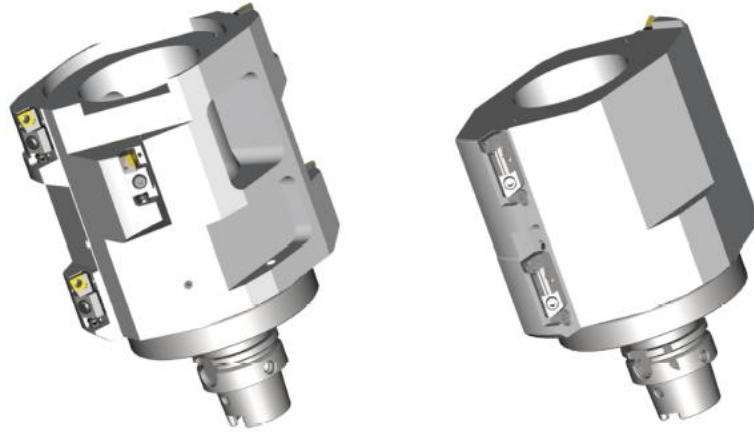
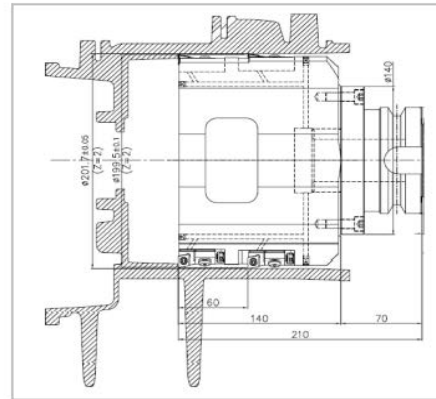
Sonderbohrwerkzeug für Motorgehäuse

In the electric vehicle industry, the importance of the motor, which replaces the engine's role, has been growing. Electric motors are developed for high power, high efficiency, large capacity, and light weight. EHWA has also been developing large-diameter boring tools to maintain its competitiveness.



Applications

- Motor housing

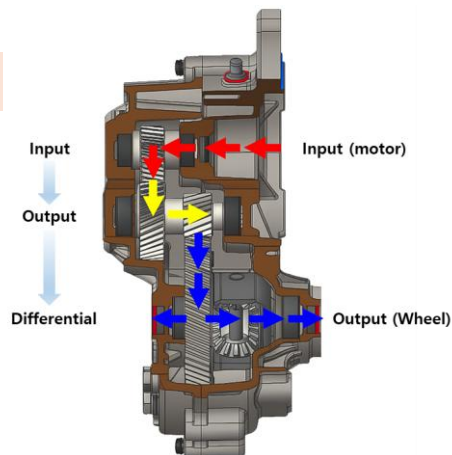


PCBN INSERTS FOR EV POWERTRAIN

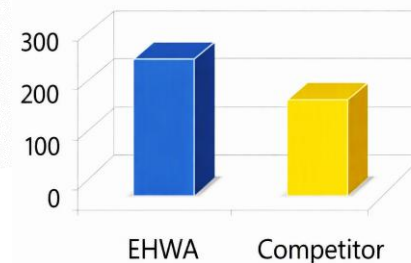
EHWA
SINCE 1975

PCBN-Schneidplatten für Elektrofahrzeug-Antriebsstränge

Reducer



Workpiece : SCM418H
V/C speed : S 80~120 m/min
Feed : F 0.07~0.10 mm/rev
D.O.C (ap) : 0.05~0.06 mm



Diff. Assy



LSD



Drive Shaft



PCBN ENDMILL FOR SCROLL COMPRESSORS

EHWA
SINCE 1975

PCBN-Schaftfräser für Scrollverdichter

EHWA provides customer-optimized PCD endmill solutions for scroll compressors.

Advantages

- Boost production efficiency by machining highly precise scroll compressors.
- Achieve superior quality in scroll compressors through highly precise machining.

Applications

- Scroll compressors - Aluminum



PCBN ENDMILL FOR **BATTERY CASE**

EHWA
SINCE 1975

PCBN-Schaftfräser für Batteriegehäuse

Outstanding cutting force of the helical design makes endmills suitable for high removal rate machining.

Advantages

- Burr-free cutting through high rake angle
- High speed, high efficiency
- Improved surface roughness



Application

- Aluminum battery case



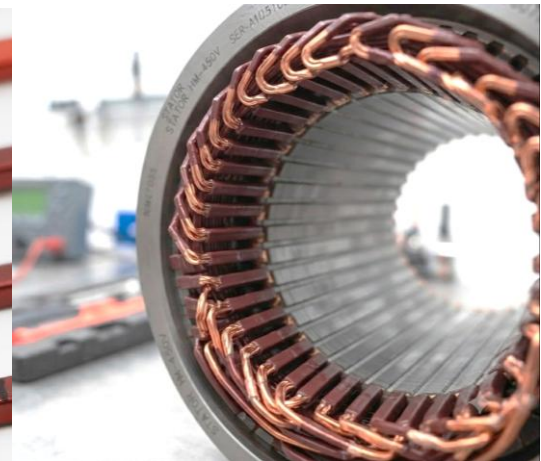
STRIPPING BLADE FOR MOTOR WINDING

EHWA
SINCE 1975

Abisolierklingen für Motorwicklungen

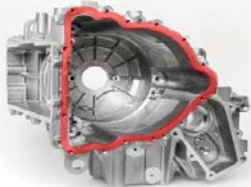
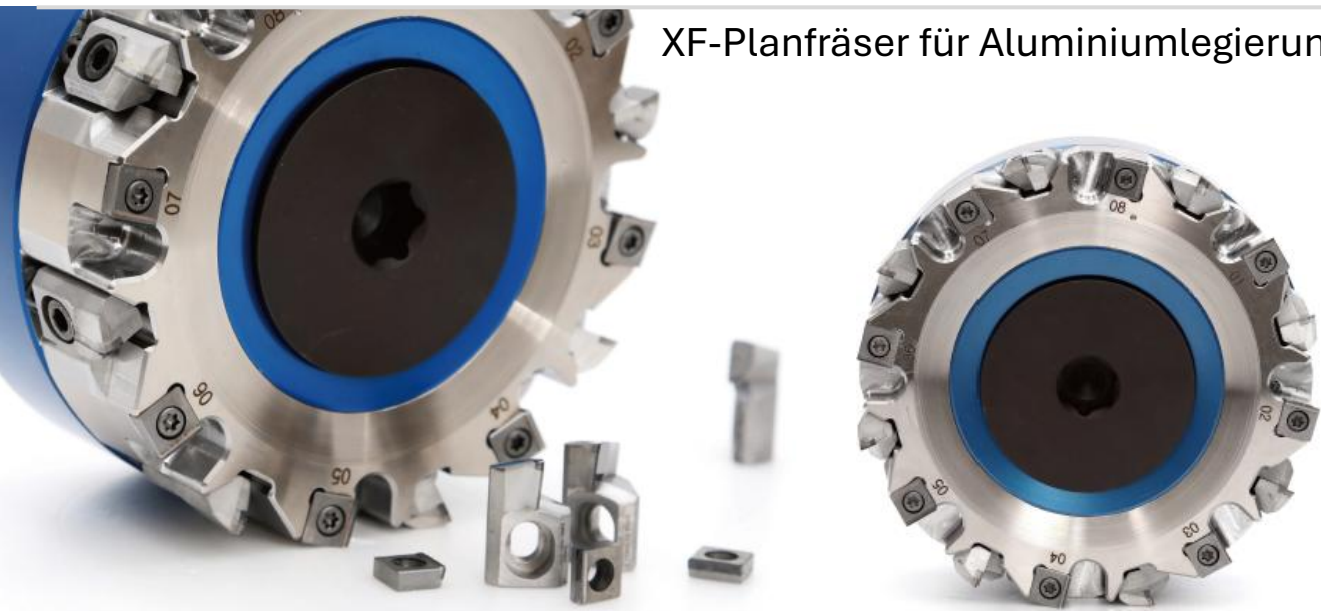
Designed to perfectly fit the rectangular profile and corner radii of EV hairpins, our precision inserts cleanly remove tough PEEK and PAI insulation without scratching the copper conductor.

This flawless surface finish ensures optimal electrical conductivity and defect-free laser welding. Crafted from premium super-hard materials, they deliver exceptional tool life and consistent accuracy in high-speed NC equipment.



XF FACE MILLING CUTTERS FOR AL ALLOYS

XF-Planfräser für Aluminiumlegierungen



ØD	Max. RPM (min ⁻¹)	Cutting Depth (mm)
100	11,000	3mm
125	9,000	3mm
160	7,000	3mm
200	5,500	3mm

Type	Dimensions					Teeth	Insert	Cartridge	Arbor
	ØD	Ød	A	B	H				
XF 10050 -16R (L)	100	31.75	12.7	8	50	16	XF10 - SN	XF CF XF SD	FMA 31.75
XF 12563 -16R (L)	125	38.1	15.9	10	63	16			FMA 38.1
XF 16063 -16R (L)	160	50.8	19.0	11	63	16			FMA 50.8
XF 20063 -18R (L)	200	47.625	25.4	14	63	18			FMA 47.625
XF 25063 -18R (L)	250	47.625	25.4	14	63	18			FMA 47.625

(All dimensions can be customized upon customer's request)



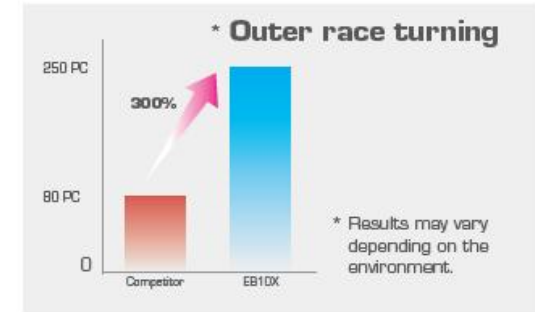
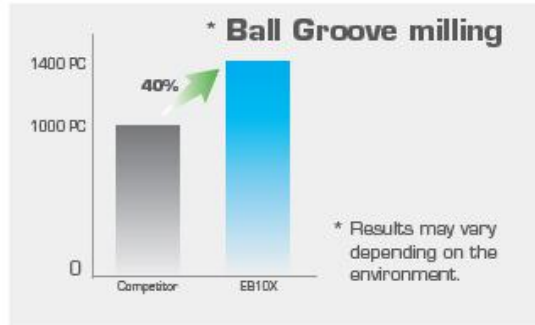
PCBN ENDMILLS & INSERTS FOR CV JOINT

EHWA
SINCE 1975

PCBN-Schaftfräser und -Schneidplatten für Gleichlaufgelenke

In the automotive market, CV-joint machining is increasingly shifting from grinding to cutting. To meet this growing demand, EHWA has been focusing on developing high-precision, high quality endmills.

Recently, EHWA introduced new 6-flutes endmills that offer exceptional durability for high speed machining. EHWA PCBN endmills not only deliver outstanding cutting force, but also offer customized design and tooling solutions based on customer's requests



PCBN-Werkzeuge für Lageranwendungen

PCBN TOOLS FOR

BEARING APPLICATION

EHWA
SINCE 1975

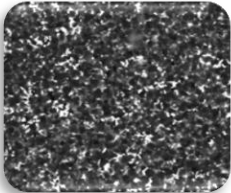
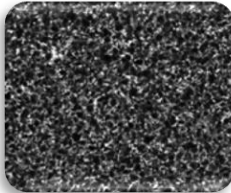
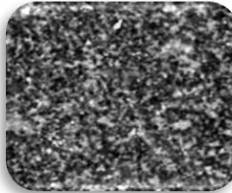
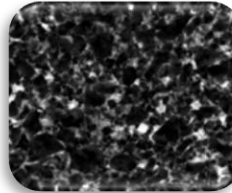


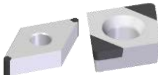
EHWA DIAMOND / WORLD BEST DIAMOND TOOL



PCBN INSERT GRADES FOR BEARING APPLICATIONS

PCBN-Schneidplattensorten für Lageranwendungen

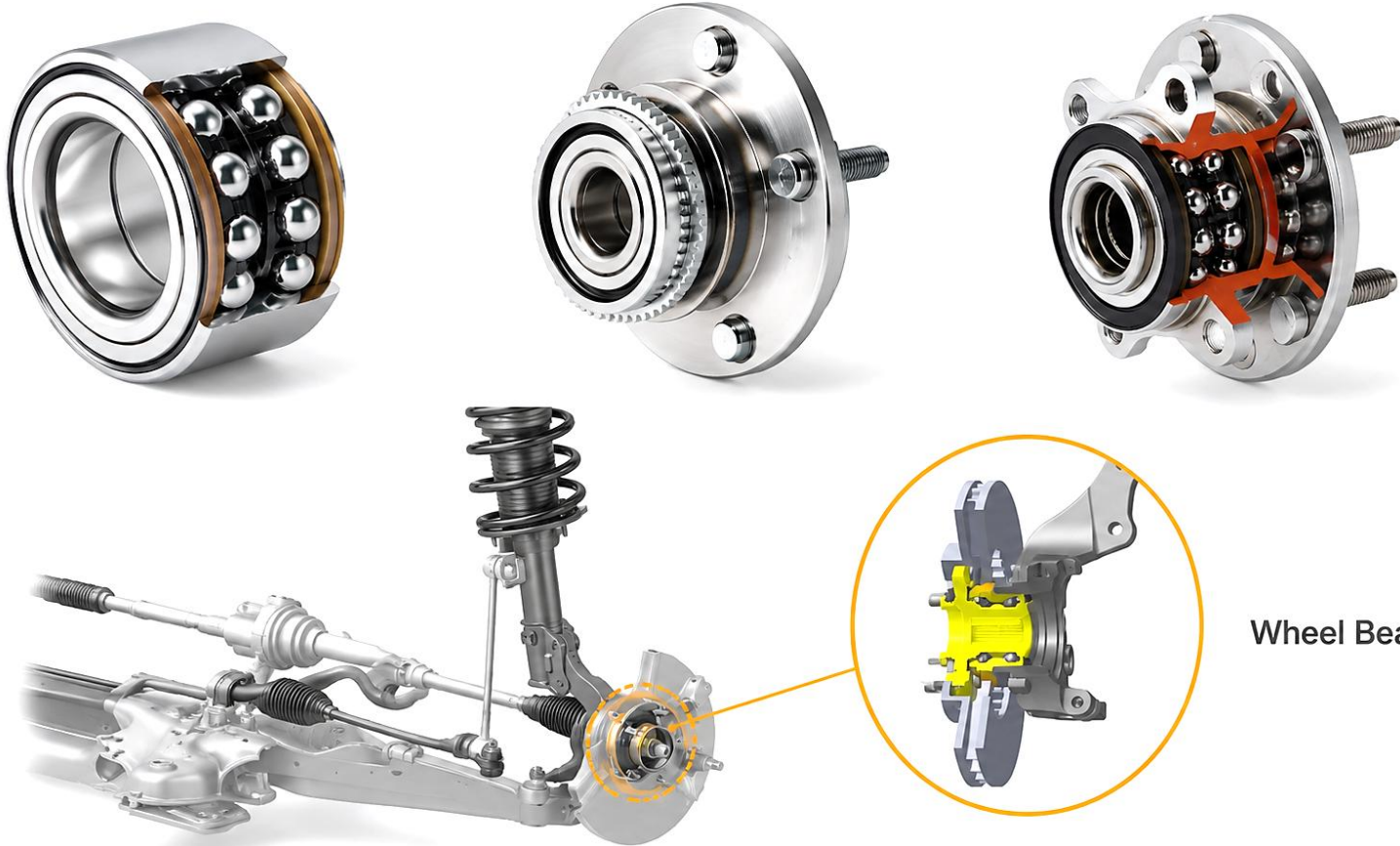
	EBC57S	EBC16S	EBC190	EBC100X
Grain size (μm)	1~2	1~4	2~4	2~10
Diamond vol (%)	60	60~65	65~70	80
Application	Axis Bearings	Axis Bearings Hub Bearings Tapered Bearing	Axis Bearings Hub Bearings Tapered Bearing	Roller Bearings Tapered Bearing
Characteristic	Good wear- resistance Solid shape	Excellent wear- chemical resistance Solid shape	Excellent wear- friction resistance	Excellent wear- friction & impact resistance Solid shape
	Toughness	Toughness	Toughness	Toughness
	Wear resistance	Wear resistance	Wear resistance	Wear resistance
	Cost benefit	Cost benefit	Cost benefit	Cost benefit
Micro structure (x1,000)				



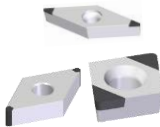
VARIOUS HUB BEARING

EHWA
SINCE 1975

Verschiedene Radnabenlager



Wheel Bearing

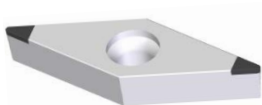


PCBN INSERTS FOR BEARINGS

EHWA
SINCE 1975

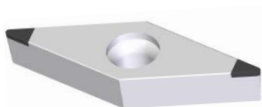
PCBN-Schneidplatten für Lager

OUTER RACE



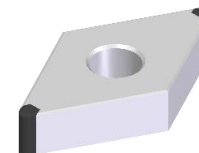
VBGW160408

INNER RACE



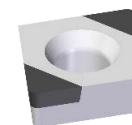
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HUB SHAFT

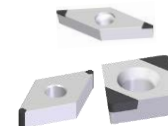
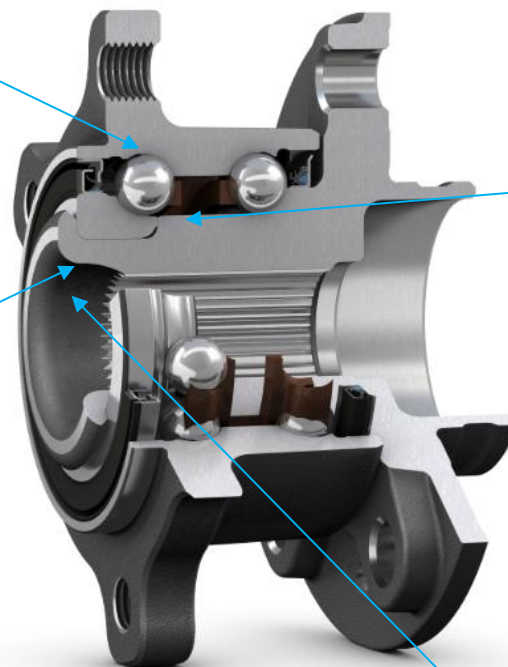


DNGA150408

INNER DIA



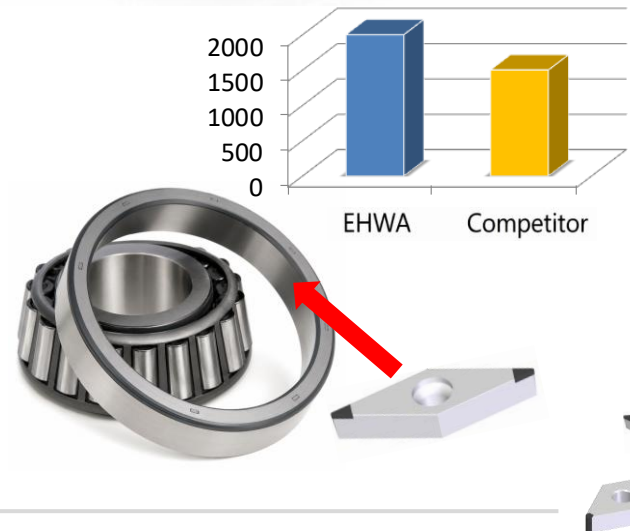
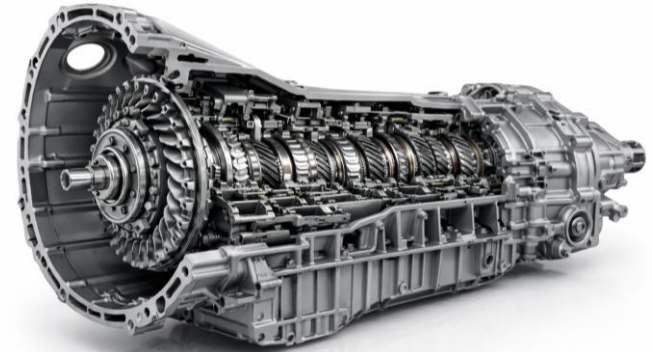
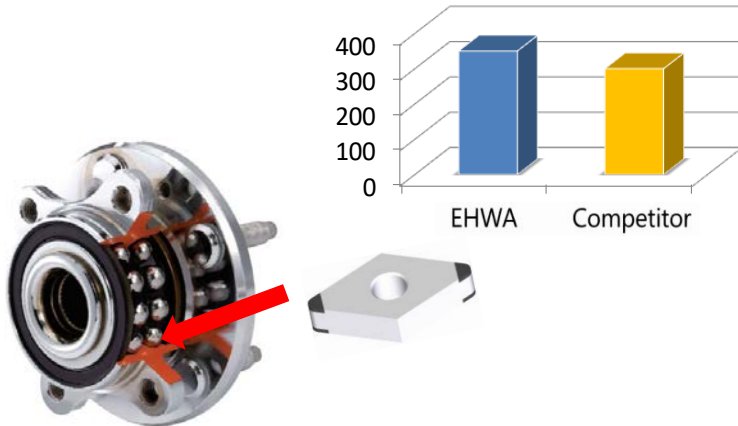
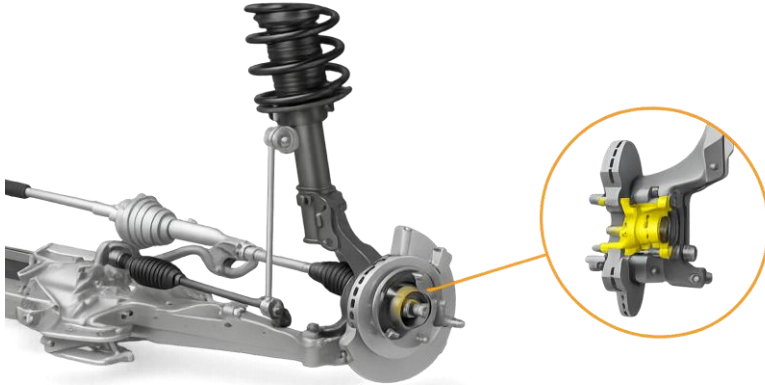
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PCBN INSERTS FOR BEARINGS

EHWA
SINCE 1975

PCBN-Schneidplatten für Lager

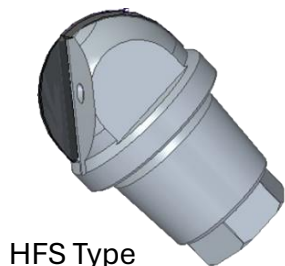


PCBN ENDMILL FOR BALL TRACK

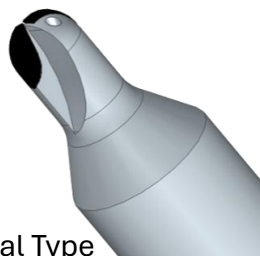
EHWA
SINCE 1975

PCBN-Schaftfräser für Kugellaufbahnen

Ball Track Hard Milling

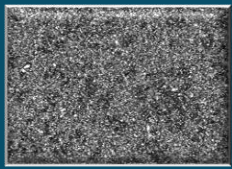
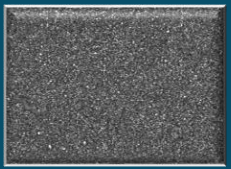


HFS Type



Normal Type

PCBN Ball Endmill

Micro Structure (x500)		
	EB510	EB10X
Grain size(um)	1.0~1.5	1.0
Characteristic	Good wear-friction & impact resistance	Excellent wear-friction & impact resistance

