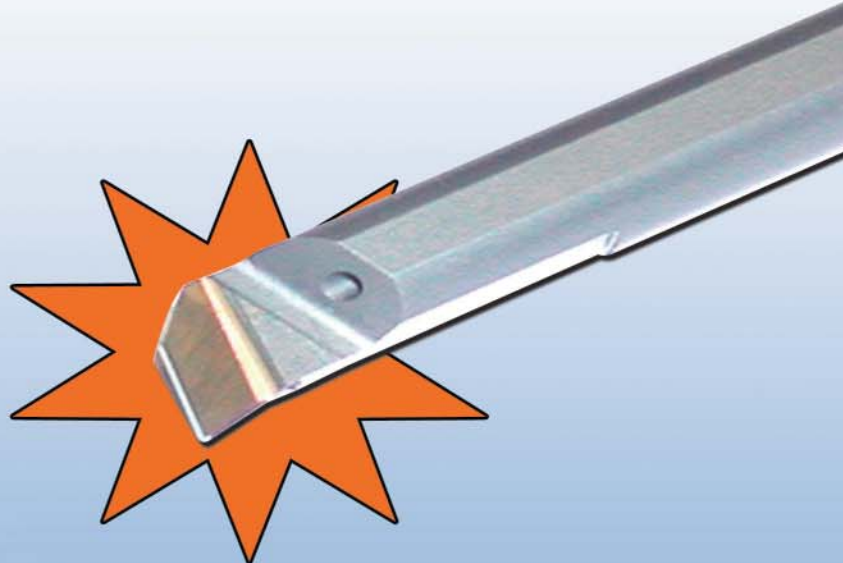




MiniCut

Tipped carbide boring bars!

- Able to achieve depths of up to 7 x D!
- Solid tungsten carbide design!
- 75° positive insert style produces excellent cutter performance!
- Featuring MAXICOOL™ through coolant technology!

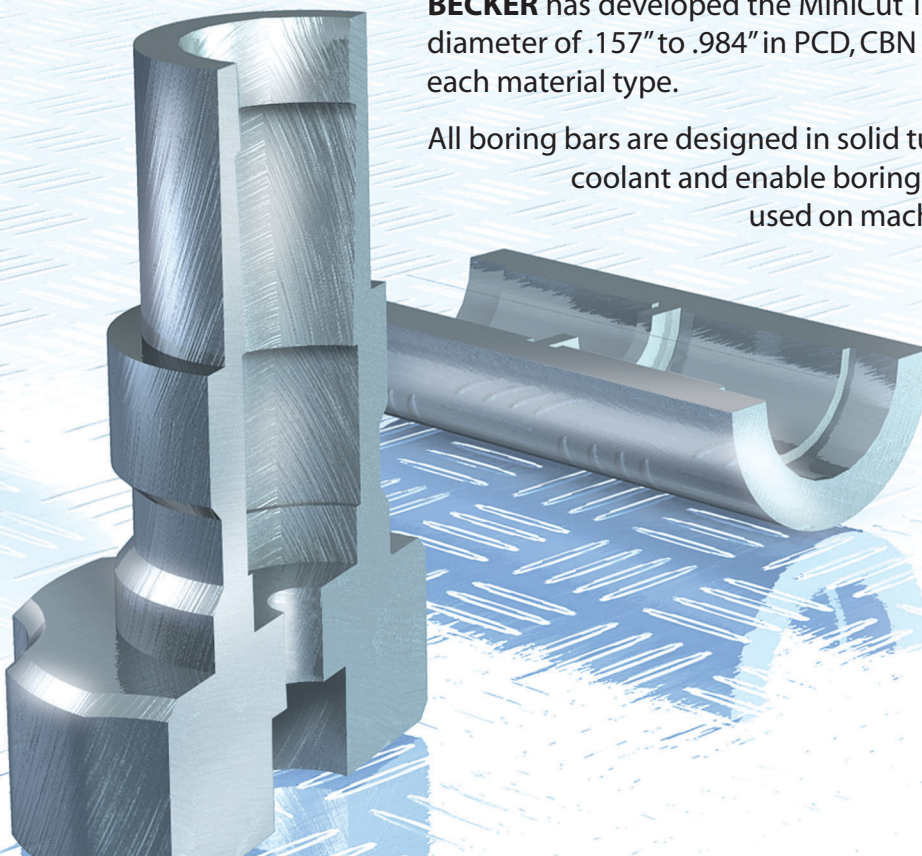


**3/16" & 1/4" I.C. sizes
available in PCD & CBN!**



MiniCut - Index

Tipped Carbide Boring Bars, PCD	page 33	EPHT wiper edge, PCD	page 39
Tipped Carbide Boring Bars, CBN	page 34 & 35	EPHW, PCD	page 39
Adapter Sleeve for Boring Bars	page 35	WCGW Fullface, PCD	page 39
Boring Bar, Solid Carbide, C...SWUC, Inch	page 36	EPHT Fullface, fullface wiper edge, CBN	page 40
Boring Bar, Solid Carbide, E...SEUP, Inch & Metric	page 36	EPHW Fullface, CBN	page 40
EPHT Fullface, fullface wiper edge, PCD	page 37	EPHW Fullface wiper edge, CBN	page 41
EPHW Fullface, fullface wiper edge, PCD	page 37	EPHT EW, EW wiper edge, CBN	page 41
EPHT wiper edge, MDC	page 38	EPHW EW, EW wiper dge, CBN	page 42
EPHW wiper edge, MDC	page 38	EPHW EWS wiper edge, CBN	page 42
EPHT, PCD	page 38	WCGW Fullface, CBN	page 43



BECKER has developed the MiniCut Tool System especially for boring from a diameter of .157" to .984" in PCD, CBN and MDC optimizing the advantages of each material type.

All boring bars are designed in solid tungsten carbide with integrated through coolant and enable boring depths of up to 7xD. Our MiniCut tools are used on machining centers and turning machines.

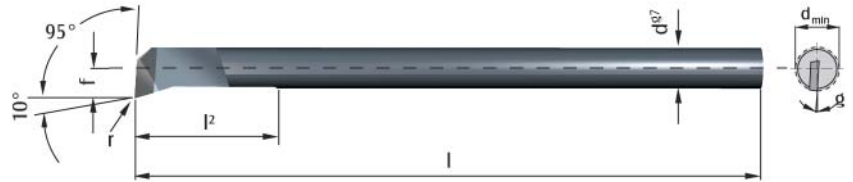
Contrary to most conventional tool systems we use the positive indexable inserts type EPHW and EPHT. The advantages of the 75° insert style enables higher cutting performance and precision. The tipped boring bars have the identical shape for the full diameter range.

The Wiper-Indexable Inserts with neutral or positive rake angle and tipped Wiper- Boring Bars with neutral rake angle are used for high-tech machining with high productivity, also increasing the flexibility of the MiniCut-System considerably.

PCD Tipped Carbide Boring Bars

Cylindrical solid carbide boring bar with one clamping surface, tipped cutting edge and internal coolant feed

For Adapter Sleeves, see page 35



X-GE Right or left hand

X-GE

Right or left hand

Right hand bar shown

PDC-S

PDC

PDC-L

MDC

Designation Right hand	Designation Left hand	Dimensions						DP	DM		
		dmin	l	d ^{g7}	f	l ²	r				
X3.5F-GEUPR01	X3.5F-GEUPL01	.157	3.15	.138	.079	.47	.004				
X3.5F-GEUPR02	X3.5F-GEUPL02						.008				
X04F-GEUPR01	X04F-GEUPL01	.197	3.15	.157	.098	.55	.004				
X04F-GEUPR02	X04F-GEUPL02						.008				
X04F-GEUPR04	X04F-GEUPL04						.016				
X05H-GEUPR01	X05H-GEUPL01	.236	3.94	.197	.118	.71	.004				
X05H-GEUPR02	X05H-GEUPL02						.008				
X05H-GEUPR04	X05H-GEUPL04						.016				
X06H-GEUPR01	X06H-GEUPL01	.275	3.94	.236	.138	.79	.004				
X06H-GEUPR02	X06H-GEUPL02						.008				
X06H-GEUPR04	X06H-GEUPL04						.016				

PCD / MDC Tipped Carbide Boring Bars, wiper edge

Cylindrical solid carbide boring bar with one clamping surface, tipped cutting edge and internal coolant feed

For Adapter Sleeves, see page 35



X-GE Right or left hand wiper edge

X-GE

Right or left hand wiper edge

Right hand bar shown

PDC-S

PDC

PDC-L

MDC

Designation Right hand	Designation Left hand	Dimensions													
		dmin	l	d ⁹⁷	f	l ²	r	DP				DM			
X3.5F-GEUPRW01	X3.5F-GEUPLW01	.157	3.15	.138	.079	.47	.004		■					■	
X3.5F-GEUPRW02	X3.5F-GEUPLW02						.008		■				■		
X04F-GEUPRW01	X04F-GEUPLW01	.197	3.15	.157	.098	.55	.004		■					■	
X04F-GEUPRW02	X04F-GEUPLW02						.008		■				■		
X04F-GEUPRW04	X04F-GEUPLW04						.016		■				■		
X05H-GEUPRW01	X05H-GEUPLW01	.236	3.94	.197	.118	.71	.004		■					■	
X05H-GEUPRW02	X05H-GEUPLW02						.008		■				■		
X05H-GEUPRW04	X05H-GEUPLW04						.016		■				■		
X06H-GEUPRW01	X06H-GEUPLW01	.275	3.94	.236	.138	.79	.004		■					■	
X06H-GEUPRW02	X06H-GEUPLW02						.008		■				■		
X06H-GEUPRW04	X06H-GEUPLW04						.016		■				■		

Tools - CBN

CBN Tipped Carbide Boring Bars

Cylindrical solid carbide boring bar with one clamping surface, tipped cutting edge and internal coolant feed.

For Adapter Sleeves, see page 35



X-GE Right or left hand

X-GE

Right or left hand

Right hand bar shown

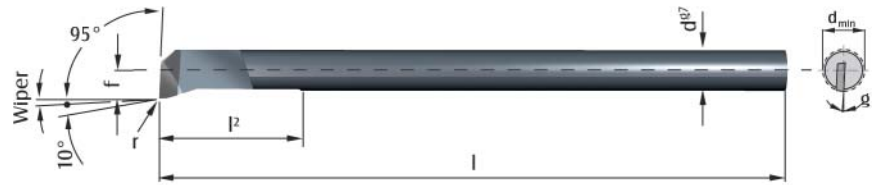
Designation Right hand	Designation Left hand	Dimensions							SBC1	SB10		SB25	SB40	
		dmin	l	d ⁹⁷	f	l ²	r	BH	BL					
X3.5F-GEUPRT01	X3.5F-GEUPLT01	.157	3.15	.138	.079	.47	.004		■	■		■	■	
X3.5F-GEUPRF02	X3.5F-GEUPLF02						.008				■	■		
X3.5F-GEUPRT02	X3.5F-GEUPLT02						.008		■	■		■	■	
X04F-GEUPRT01	X04F-GEUPLT01	.197	3.15	.157	.098	.55	.004		■	■		■	■	
X04F-GEUPRF02	X04F-GEUPLF02						.008				■	■		
X04F-GEUPRT02	X04F-GEUPLT02						.008		■	■		■	■	
X04F-GEUPRF04	X04F-GEUPLF04						.016				■	■		
X04F-GEUPRT04	X04F-GEUPLT04						.016		■	■		■	■	
X05H-GEUPRT01	X05H-GEUPLT01	.236	3.94	.197	.118	.71	.004			■		■	■	
X05H-GEUPRF02	X05H-GEUPLF02						.008				■	■		
X05H-GEUPRT02	X05H-GEUPLT02						.008		■	■		■	■	
X05H-GEUPRF04	X05H-GEUPLF04						.016				■	■		
X05H-GEUPRT04	X05H-GEUPLT04						.016		■	■		■	■	
X06H-GEUPRT01	X06H-GEUPLT01	.275	3.94	.236	.138	.79	.004			■		■	■	
X06H-GEUPRF02	X06H-GEUPLF02						.008				■	■		
X06H-GEUPRT02	X06H-GEUPLT02						.008		■	■		■	■	
X06H-GEUPRF04	X06H-GEUPLF04						.016				■	■		
X06H-GEUPRT04	X06H-GEUPLT04						.016		■	■		■	■	

Note: X3.5T-GEUPLT01: $\underline{F}$ = sharp cutting edge, $\underline{T}$ = T-Land

CBN Tipped Carbide Boring Bars, wiper edge

Cylindrical solid carbide boring bar with one clamping surface, tipped cutting edge and internal coolant feed.

For Adapter Sleeves, see below



X-GE Right or left hand wiper edge

Right hand bar shown

Designation Right hand	Designation Left hand	Dimensions						SBC1	SB10	SB25	SB40
		d _{min}	l ¹	d _{h7}	f	l ²	r	BH	BL		
X3.5F-GEUPRTW01	X3.5F-GEUPLTW01						.004	■	■	■	■
X3.5F-GEUPRFW02	X3.5F-GEUPLFW02	.157	3.15	.138	.079	.47	.008		■	■	■
X3.5F-GEUPRTW02	X3.5F-GEUPLTW02						.008	■	■	■	■
X04F-GEUPRFW02	X04F-GEUPLFW02						.008		■	■	■
X04F-GEUPRTW02	X04F-GEUPLTW02	.197	3.15	.157	.098	.55	.008	■	■	■	■
X04F-GEUPRTW03	X04F-GEUPLTW03						.012		■	■	■
X05H-GEUPRFW02	X05H-GEUPLFW02						.008		■	■	■
X05H-GEUPRTW02	X05H-GEUPLTW02	.236	3.94	.197	.118	.71	.008	■	■	■	■
X05H-GEUPRTW04	X05H-GEUPLTW04						.016		■	■	■
X06H-GEUPRFW02	X06H-GEUPLFW02						.008		■	■	■
X06H-GEUPRTW02	X06H-GEUPLTW02	.275	3.94	.236	.138	.79	.008	■	■	■	■
X06H-GEUPRFW04	X06H-GEUPLFW04						.016		■	■	■
X06H-GEUPRTW04	X06H-GEUPLTW04						.016		■	■	■

Adapter Sleeve for Boring Bars form X...GEUP

Adapter Sleeves enable versatile use of the boring bars in all areas

Coolant feed is provided through the adapter.

Only for BECKER - Form X...GE



Inch

Designation	D	d	d _{H7}	d _{H7} mm	H	l	Boring Bar
ADAP-0.625-35	.625	.157	.138	3.5	.551	3.94	X 3.5 F - GEUP R/L
ADAP-0.625-40	.625	.197	.157	4	.551	3.94	X 04 F - GEUP R/L
ADAP-0.625-50	.625	.236	.197	5	.551	3.94	X 05 H - GEUP R/L
ADAP-0.625-60	.625	.315	.236	6	.551	3.94	X 06 H - GEUP R/L

Metric

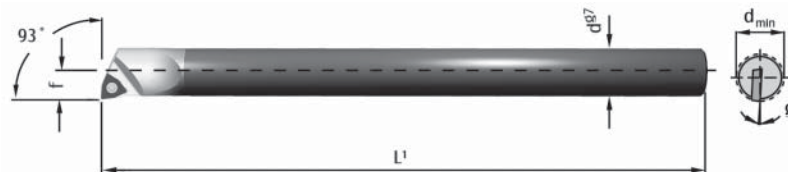
Designation	D	d	d _{H7}	H	l	Boring Bar
ADAP-1635	16	4	3.5	14	100	X 3.5 F - GEUP R/L
ADAP-1640	16	5	4	14	100	X 04 F - GEUP R/L
ADAP-1650	16	6	5	14	100	X 05 H - GEUP R/L
ADAP-1660	16	6	6	14	100	X 06 H - GEUP R/L

Note: X3.5T-GEUPLT01: F= sharp cutting edge, l= T-Land

Tools for PCD / CBN

Boring Bar, Solid Carbide, Design C...SWUC, right or left hand

Boring bar with cylindrical solid carbide shank



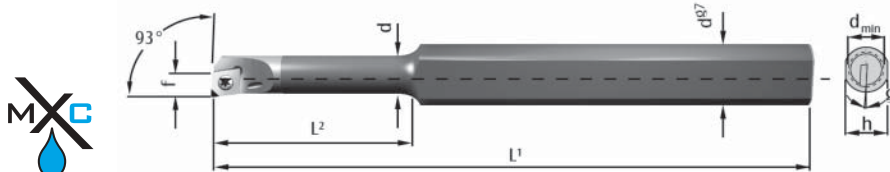
Inch

Designation Right hand	Designation Left hand	d min	d ⁹⁷	d ⁹⁷ mm	f	L¹	g	Insert
C03A-SWUCR-12	C03A-SWUCL-12	.228	.188	4.78	.114	4.000	17°	WCGW-1.21..
C04A-SWUCR-12	C04A-SWUCL-12	.312	.250	6.35	.156	4.000	17°	WCGW-1.21..
*E04A-SWUCR-12	*E04A-SWUCL-12	.312	.250	6.35	.156	4.000	17°	WCGW-1.21..

*This item is supplied with coolant

Boring Bar, Solid Carbide, Design E...SEUP, right or left hand

Boring bar with cylindrical solid carbide shank,
two clamping surfaces and internal coolant feed

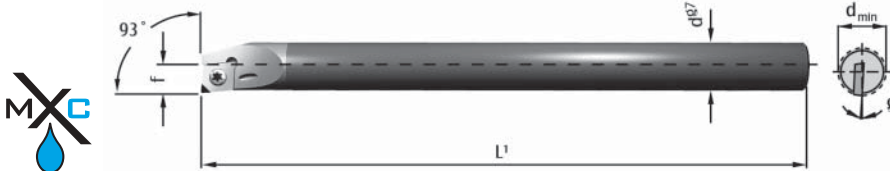


Metric

Designation	d min	d	f	L¹	L²	d ⁹⁷	d ⁹⁷ mm	h	g	Insert
E0610H-SEUPR/L-04	.268	.236	.134	3.94	1.42	.394	10	.31	9°	EPH.. 1.51..
E0710K-SEUPR/L-04	.331	.276	.173	4.92	1.65	.394	10	.31	5°	EPH.. 1.51..
E0810K-SEUPR/L-04	.374	.315	.193	4.92	1.89	.394	10	.31	5°	EPH.. 1.51..

Boring Bar, Solid Carbide, Design E...SEUP, right or left hand

Boring bar with cylindrical solid carbide shank
and internal coolant feed



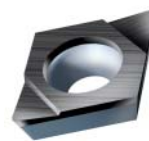
Inch

Designation Right hand	Designation Left hand	d min	d ⁹⁷	d ⁹⁷ mm	f	L¹	g	Insert
E04H-SEUPR-15	E04H-SEUPL-15	.290	.250	6.35	.142	4	5°	EPH.. 1.51..
E05K-SEUPR-15	E05K-SEUPL-15	.350	.312	7.94	.173	5	5°	EPH.. 1.51..
E06M-SEUPR-2	E06M-SEUPL-2	.400	.375	9.53	.205	6	5°	EPH.. 21.2..

Metric

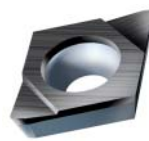
Designation Right hand	Designation Left hand	d min	d ⁹⁷	d ⁹⁷ mm	f	L¹	g	Insert
E06F-SEUPR-04	E06F-SEUPL-04	.268	.236	6	.134	3.15	9°	EPH.. 1.51..
E07H-SEUPR-04	E07H-SEUPL-04	.331	.276	7	.173	3.94	5°	EPH.. 1.51..
E08H-SEUPR-04	E08H-SEUPL-04	.374	.315	8	.193	3.94	5°	EPH.. 1.51..
E10K-SEUPR-06	E10K-SEUPL-06	.453	.394	10	.228	4.92	5°	EPH.. 21.2..
E12M-SEUPR-06	E12M-SEUPL-06	.531	.472	12	.272	5.91	3°	EPH.. 21.2..
E16R-SEUPR-06	E16R-SEUPL-06	.728	.630	16	.386	7.87	0°	EPH.. 21.2..

Note: for right hand boring bars use left hand wiper inserts, for left hand boring bars use right hand wiper inserts



EPHT Fullface

Insert	Designation	Dimensions						PDC-S	PDC	PDC-L	MDC	
		d	d ¹	s	l	l ¹	r	DP			DM	
	EPHT-1.510-VM					--	.004	■	■			
	EPHT-1.510.5-VM	.187	.087	.062	.193	--	.008	■	■			
	EPHT-1.511-VM					--	.016	■	■			

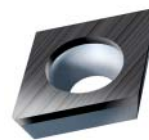


EPHT Fullface right or left hand wiper edge

Insert	Designation	Dimensions						PDC-S	PDC	PDC-L	MDC	
		d	d ¹	s	l	l ¹	r	DP			DM	
	EPHT-1.510R/LW-VM					--	.004	■	■			
	EPHT-1.510.5R/LW-VM	.187	.087	.062	.193	--	.008	■	■			
	EPHT-1.511R/LW-VM					--	.016	■	■			

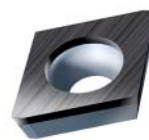
Left hand shown

Ordering Example: 10 pcs. EPHT-1.510RW-VM PDC (Right Hand)



EPHW Fullface

Insert	Designation	Dimensions						PDC-S	PDC	PDC-L	MDC	
		d	d ¹	s	l	l ¹	r	DP			DM	
	EPHW-1.510-VM					--	.004	■	■			
	EPHW-1.510.5-VM	.187	.087	.062	.193	--	.008	■	■			
	EPHW-1.511-VM					--	.016	■	■			



EPHW Fullface right or left hand wiper edge

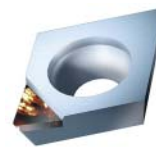
Insert	Designation	Dimensions						PDC-S	PDC	PDC-L	MDC	
		d	d ¹	s	l	l ¹	r	DP			DM	
	EPHW-1.510R/LW-VM					--	.004	■	■			
	EPHW-1.510.5R/LW-VM	.187	.087	.062	.193	--	.008	■	■			
	EPHW-1.511R/LW-VM					--	.016	■	■			

Left hand shown

Ordering Example: 10 pcs. EPHW-1.510RW-VM PDC (Right Hand)

Inserts - PCD / MDC

EPHT Right or left hand wiper edge



Insert	Designation	Dimensions						PDC-S	PDC	PDC-L	MDC		
		d	d ¹	s	l	l ¹	r	DP			DM		
	EPHT-1.510R/LW					.063	.004					■	
	EPHT-1.510.5R/LW	.187	.087	.062	.193	.059	.008					■	
	EPHT-1.511R/LW					.051	.016					■	
	EPHT-21.20R/LW					.102	.004					■	
	EPHT-21.20.5R/LW	.250	.110	.078	.260	.094	.008					■	
	EPHT-21.21R/LW					.086	.016					■	

Left hand shown

Ordering Example: 10 pcs. EPHT-1.510RW MDC (Right Hand)

EPHW Right or left hand wiper edge

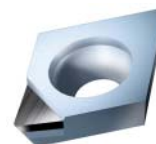


Insert	Designation	Dimensions						PDC-S	PDC	PDC-L	MDC		
		d	d ¹	s	l	l ¹	r	DP			DM		
	EPHW-1.510R/LW					.063	.004					■	
	EPHW-1.510.5R/LW	.187	.087	.062	.193	.059	.008					■	
	EPHW-1.511R/LW					.051	.016					■	
	EPHW-21.20R/LW					.102	.004					■	
	EPHW-21.20.5R/LW	.250	.110	.078	.260	.094	.008					■	
	EPHW-21.21R/LW					.086	.016					■	

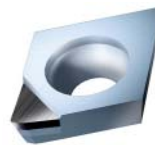
Left hand shown

Ordering Example: 10 pcs. EPHT-1.510RW MDC (Right Hand)

EPHT



Insert	Designation	Dimensions						PDC-S	PDC	PDC-L	MDC		
		d	d ¹	s	l	l ¹	r	DP			DM		
	EPHT-21.20					.122	.004		■	■			
	EPHT-21.20.5	.250	.110	.078	.260	.118	.008		■	■			
	EPHT-21.21					.110	.016		■	■			

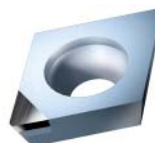


EPHT Right or left hand wiper edge

Insert	Designation	Dimensions						PDC-S	PDC	PDC-L	MDC	
		d	d ¹	s	l	l ¹	r	DP			DM	
	EPHT-21.20R/LW					.122	.004	■	■			
	EPHT-21.20.5R/LW	.250	.110	.078	.260	.118	.008	■	■			
	EPHT-21.21R/LW					.110	.016	■	■			

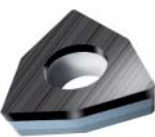
Left hand shown

Ordering Example: 10 pcs. EPHT-21.20RW PDC (Right Hand)



EPHW

Insert	Designation	Dimensions						PDC-S	PDC	PDC-L	MDC	
		d	d ¹	s	l	l ¹	r	DP			DM	
	EPHW-21.20					.122	.004	■	■			
	EPHW-21.20.5	.250	.110	.078	.260	.118	.008	■	■			
	EPHW-21.21					.110	.016	■	■			

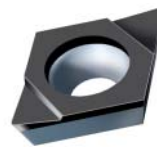


WCGW Fullface

Insert	Designation	Dimensions						PDC-S	PDC	PDC-L	MDC	
		d	d ¹	s	l	l ¹	r	DP			DM	
	WCGW-1.210.5-VM					.106	.008		■			
	WCGW-1.211-VM	.156	.091	.062	--	.106	.016		■			

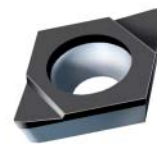
Inserts - CBN

EPHT Fullface



Insert	Designation	Dimensions						PBC-10	PBC-15	PBC-17	PBC-20	PBC-25	PBC-30	PBC-40
		d	d ¹	s	l	l ¹	r	BH			BL			
	EPHT-1.510.5F-VM					--	.008	■	■	■		■		■
	EPHT-1.510.7F-VM	.187	.087	.062	.193	--	.012	■				■		■
	EPHT-1.511F-VM					--	.016	■				■		■

EPHT Fullface right or left hand wiper edge

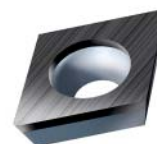


Insert	Designation	Dimensions						PBC-10	PBC-15	PBC-17	PBC-20	PBC-25	PBC-30	PBC-40
		d	d ¹	s	l	l ¹	r	BH			BL			
	EPHT-1.510.5FR/LW-VM					--	.008	■	■	■		■		■
	EPHT-1.510.7FR/LW-VM	.187	.087	.062	.193	--	.012	■	■			■		■

Left hand shown

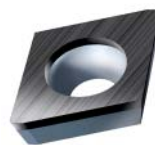
Ordering Example: 10 pcs. EPHT-1.510.5FRW-VM PBC-10 (Right Hand)

EPHW Fullface

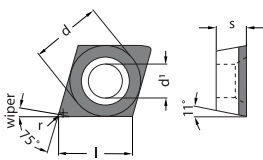


Insert	Designation	Dimensions						PBC-10	PBC-15	PBC-17	PBC-20	PBC-25	PBC-30	PBC-40
		d	d ¹	s	l	l ¹	r	BH			BH			
	EPHW-1.510F-VM					--	.004	■				■		■
	EPHW-1.510T-VM					--	.004	■			■	■	■	■
	EPHW-1.510.5F-VM					--	.008	■	■	■		■		■
	EPHW-1.510.5T-VM					--	.008	■	■	■	■	■	■	■
	EPHW-1.510.7F-VM	.187	.087	.062	.193	--	.012	■	■	■		■		■
	EPHW-1.510.7T-VM					--	.012	■		■	■	■	■	■
	EPHW-1.511F-VM					--	.016	■	■			■		■
	EPHW-1.511T-VM					--	.016	■		■	■	■	■	■

Note: EPHT-1.510.5F-VM: F= sharp cutting edge, T= T-Land

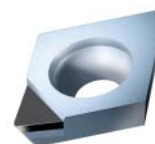


EPHW Fullface right or left hand wiper edge

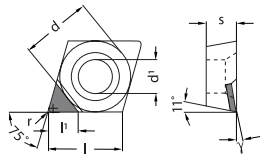
Insert	Designation	Dimensions						PBC-10	PBC-15	PBC-17	PBC-20	PBC-25	PBC-30	PBC-40
		d	d ¹	s	l	l ¹	r	BH			BL			
	EPHW-1.510TR/LW-VM	.187	.087	.062	.193	--	.004	■			■	■	■	■
	EPHW-1.510.5FR/LW-VM					--	.008	■	■	■		■		■
	EPHW-1.510.5TR/LW-VM					--	.008	■	■	■	■	■	■	■
	EPHW-1.511TR/LW-VM					--	.016	■			■	■	■	■

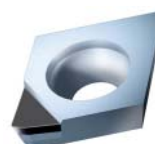
Left hand shown

Ordering Example: 10 pcs. EPHW-1.510TRW-VM PBC-10 (Right Hand)

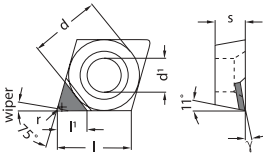


EPHT EW

Insert	Designation	Dimensions						PBC-10	PBC-15	PBC-17	PBC-20	PBC-25	PBC-30	PBC-40
		d	d ¹	s	l	l ¹	r	BH			BL			
	EPHT-21.20.5F-EW	.250	.110	.078	.260	.118	.008	■	■	■		■		■
	EPHT-21.21F-EW					.110	.016	■	■	■		■		■



EPHT EW right or left hand wiper edge

Insert	Designation	Dimensions						PBC-10	PBC-15	PBC-17	PBC-20	PBC-25	PBC-30	PBC-40
		d	d ¹	s	l	l ¹	r	BH			BL			
	EPHT-21.20.5FR/LW-EW	.250	.110	.078	.260	.118	.008	■	■	■		■		■
	EPHT-21.21FR/LW-EW					.110	.016	■				■		■

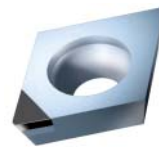
Left hand shown

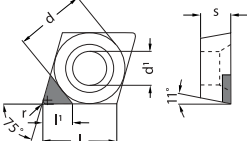
Ordering Example: 10 pcs. EPHT-21.20.5FRW-EW PBC-10 (Right Hand)

Note: EPHT-1.510.5F-VM: F= sharp cutting edge, T= T-Land

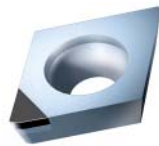
Inserts - CBN

EPHW EW



Insert	Designation	Dimensions						PBC	PBC	PBC	PBC	PBC	PBC	PBC	
		d	d ¹	s	l	l ¹	r	BH			BL				
	EPHW-21.20F-EW	.250	.110	.078	.260	.122	.004	■				■			■
	EPHW-21.20T-EW					.122	.004	■			■	■	■	■	■
	EPHW-21.205F-EW					.118	.008	■	■	■		■			■
	EPHW-21.205T-EW					.118	.008	■	■	■	■	■	■	■	■
	EPHW-21.21F-EW					.110	.016	■	■	■		■			■
	EPHW-21.22T-EW					.094	.031	■	■	■	■	■	■	■	■
	EPHW-21.22F-EW					.094	.031	■	■	■		■			■
	EPHW-21.22T-EW					.094	.031	■	■	■	■	■	■	■	■

EPHW EW right or left hand wiper edge

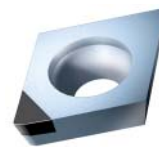


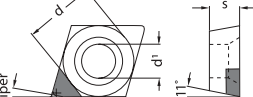
Insert	Designation	Dimensions						PBC	PBC	PBC	PBC	PBC	PBC	PBC
		d	d ¹	s	l	l ¹	r	BH			BL			
	EPHW-21.205FR/LW-EW	.250	.110	.078	.260	.118	.008	■	■	■		■		■
	EPHW-21.205TR/LW-EW					.118	.008	■	■	■	■	■	■	■
	EPHW-21.21FR/LW-EW					.110	.016	■	■	■		■		■
	EPHW-21.21TR/LW-EW					.110	.016	■	■	■	■	■	■	■

Left hand shown

Ordering Example: 10 pcs. EPHW-21.205FRW-EW PBC-10 (Right Hand)

EPHW EWS right or left hand wiper edge

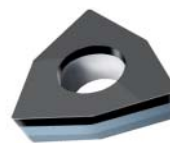


Insert	Designation	Dimensions						SBC	SB1	SB2	SB4	
		d	d ¹	s	l	l ¹	r	BH	BL			
	EPHW-21.20TR/LW-EWS	.250	.110	.078	.260	.122	.004		■		■	■
	EPHW-21.205FR/LW-EWS					.118	.008		■		■	■
	EPHW-21.205TR/LW-EWS					.118	.008		■		■	■
	EPHW-21.21FR/LW-EWS					.110	.016		■		■	■
	EPHW-21.21TR/LW-EWS					.110	.016		■		■	■

Left hand shown

Ordering Example: 10 pcs. EPHW-21.205FRW-EWS SB10 (Right Hand)

Note: EPHT-1.510.5E-VM: E= sharp cutting edge, l= T-Land



WCGW Fullface

Insert	Designation	Dimensions						PBC-10	PBC-15	PBC-17	PBC-20	PBC-25	PBC-30	PBC-40
		d	d ¹	s	l	l ¹	r	BH			BL			
	WCGW-1.210.5F-VM	.156	.091	.062	--	.106	.008	■	■	■	■	■	■	■
	WCGW-1.210.5T-VM					.106	.008	■			■	■	■	■
	WCGW-1.211F-VM					.106	.016	■			■	■	■	■
	WCGW-1.211T-VM					.106	.016	■	■	■	■	■	■	■

Note: EPHT-1.510.5F-VM: F= sharp cutting edge, T= T-Land

Notes

[illegible]