

BXA20

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Tungaloy Report No. 511S1-G

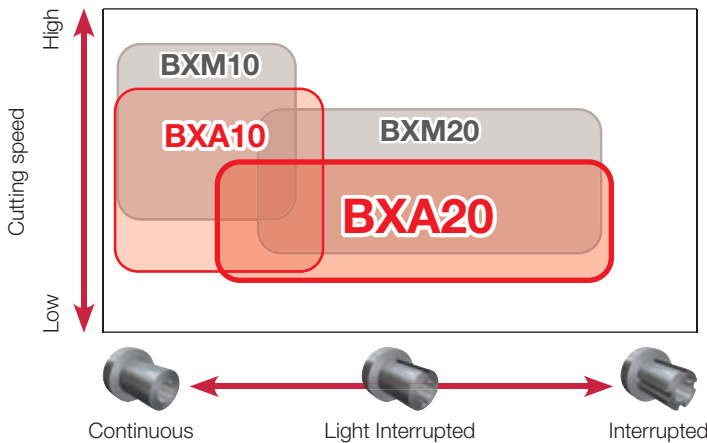
Expansion of 0.1 and 0.2 mm corner radius insert



Ideal for machining small corner radii of hardened steel parts

APPLICATION AREA

The best suitable grade can be selected for your application requirements



BXA10

First choice for continuous to light interrupted cuts
For $V_c = 230$ m/min or less

BXA20

First choice for light to heavy interrupted cuts
For $V_c = 180$ m/min or less

BXM10

Complementary grade for continuous to light interrupted cuts
For extremely high cutting speeds of $V_c = 300$ m/min

BXM20

Complementary grade for light to heavy interrupted cuts
For high cutting speeds of $V_c = 200$ m/min

INSERT LINEUP

Negative type

Shape	Corner R						
	0.2	0.4	0.8	1.2	1.6	2	2.4
C 	●	●	●	●	●	●	●
D 	●	●	●	●	●	●	●
T 	●	●	●	●	●	●	●
V 	●	●	●	●	-	-	-
G 	●	●	●	●	-	-	-

Positive type

Shape	Corner R			
	0.1	0.2	0.4	0.8
C 	-	●	●	●
D 	●	●	●	●
T 	-	●	●	●
V 	●	●	●	●

●: New

INSERT NEGATIVE TYPE

- : Continuous cutting
- ◐ : Light interrupted cutting
- ✱ : Heavy interrupted cutting

Shape	Designation	Material		Dimension (mm)						Edge prep.					Wiper	Chipbreaker	
		BXA10	BXA20	No. of corners	LE	RE	IC	S	D1	Standard	L	LF	LC	H			
		Sharp edge															
2QP-CNGA**	2QP-CNGA120402	●	●		2	2.3	0.2	12.7	4.76	5.16	○						
	2QP-CNGA120402-L	●	●		2	2.3	0.2	12.7	4.76	5.16		○					
	2QP-CNGA120402-LF	●	●		2	2.3	0.2	12.7	4.76	5.16			○				
	2QP-CNGA120402-LC	●	●		2	2.3	0.2	12.7	4.76	5.16				○			

Shape	Designation	Material		Dimension (mm)						Edge prep.					Wiper	Chipbreaker	
		BXA10	BXA20	No. of corners	LE	RE	IC	S	D1	Standard	L	LF	LC	H			
		Sharp edge															
2QP-DNGA**	2QP-DNGA150402	●	●		2	2.7	0.2	12.7	4.76	5.16	○						
	2QP-DNGA150402-L	●	●		2	2.7	0.2	12.7	4.76	5.16		○					
	2QP-DNGA150402-LF	●	●		2	2.7	0.2	12.7	4.76	5.16			○				
	2QP-DNGA150402-LC	●	●		2	2.7	0.2	12.7	4.76	5.16				○			

Shape	Designation	Material		Dimension (mm)						Edge prep.					Wiper	Chipbreaker	
		BXA10	BXA20	No. of corners	LE	RE	IC	S	D1	Standard	L	LF	LC	H			
		Sharp edge															
2QP-GNGA**	*2QP-GNGA120402	●	●		2	2.2	0.2	12.7	4.76	5.16	○						
	*2QP-GNGA120402-L	●	●		2	2.2	0.2	12.7	4.76	5.16		○					
	*2QP-GNGA120402-LF	●	●		2	2.2	0.2	12.7	4.76	5.16			○				
	*2QP-GNGA120402-LC	●	●		2	2.2	0.2	12.7	4.76	5.16				○			

* Tungaloy's standard

● : New

INSERT NEGATIVE TYPE

- : Continuous cutting
- ◐ : Light interrupted cutting
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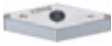
Shape	Designation			Dimension (mm)						Edge prep.					Wiper	Chipbreaker	
		BXA10	BXA20	No. of corners	LE	RE	IC	S	D1	Standard	Sharp edge	L	LFLC	H			
3QP-TNGA**	3QP-TNGA160402	●	●								○						
	3QP-TNGA160402-L	●	●									○					
	3QP-TNGA160402-LF	●	●										○				
	3QP-TNGA160402-LC	●	●											○			



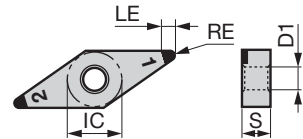
P	Steel																
M	Stainless																
K	Cast iron																
N	Non-ferrous																
S	Superalloy																
H	Hard material	●	●														



Shape	Designation			Dimension (mm)						Edge prep.					Wiper	Chipbreaker	
		BXA10	BXA20	No. of corners	LE	RE	IC	S	D1	Standard	Sharp edge	L	LFLC	H			
2QP-VNGA**	2QP-VNGA160402	●	●								○						
	2QP-VNGA160402-L	●	●									○					
	2QP-VNGA160402-LF	●	●										○				
	2QP-VNGA160402-LC	●	●											○			



P	Steel																
M	Stainless																
K	Cast iron																
N	Non-ferrous																
S	Superalloy																
H	Hard material	●	●														



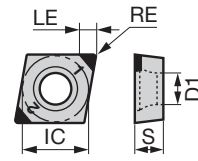
● : New

INSERT POSITIVE TYPE

- : Continuous cutting
- ◐ : Light interrupted cutting
- ✱ : Heavy interrupted cutting



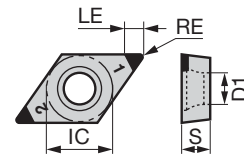
P	Steel																			
M	Stainless																			
K	Cast iron																			
N	Non-ferrous																			
S	Superalloy																			
H	Hard material	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●



Shape	Designation	BXA10	BXA20	No. of corners	Dimension (mm)					Edge prep.					Wiper	Chipbreaker					
					LE	RE	IC	S	D1	Standard	Sharp edge	L	LF	LC			H				
2QP-CCGW**	2QP-CCGW060202	●	●	2	2.3	0.2	6.35	2.38	2.8	○											
	2QP-CCGW060202-L	●	●	2	2.3	0.2	6.35	2.38	2.8		○										
	2QP-CCGW060202-LF	●	●	2	2.3	0.2	6.35	2.38	2.8			○									
	2QP-CCGW060202-LC	●	●	2	2.3	0.2	6.35	2.38	2.8				○								
	2QP-CCGW09T302	●	●	2	2.3	0.2	9.525	3.97	4.4	○											
	2QP-CCGW09T302-L	●	●	2	2.3	0.2	9.525	3.97	4.4		○										
	2QP-CCGW09T302-LF	●	●	2	2.3	0.2	9.525	3.97	4.4			○									
	2QP-CCGW09T302-LC	●	●	2	2.3	0.2	9.525	3.97	4.4				○								
	2QP-CCGW09T302-H	●	●	2	2.3	0.2	9.525	3.97	4.4					○							
2QP-CPGW**	2QP-CPGW080202	●	●	2	2.3	0.2	7.94	2.38	3.4	○											
	2QP-CPGW090302	●	●	2	2.3	0.2	9.525	3.18	4.4	○											



P	Steel																			
M	Stainless																			
K	Cast iron																			
N	Non-ferrous																			
S	Superalloy																			
H	Hard material	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●





Shape	Designation	BXA10	BXA20	No. of corners	Dimension (mm)					Edge prep.					Wiper	Chipbreaker					
					LE	RE	IC	S	D1	Standard	Sharp edge	L	LF	LC			H				
2QP-DCGW**	2QP-DCGW070202-L	●	●	2	2.7	0.2	6.35	2.38	2.8		○										
	2QP-DCGW070202-LF	●	●	2	2.7	0.2	6.35	2.38	2.8			○									
	2QP-DCGW070202-LC	●	●	2	2.7	0.2	6.35	2.38	2.8				○								
	2QP-DCGW11T301	●	●	2	2.8	0.1	9.525	3.97	4.4	○											
	2QP-DCGW11T302-L	●	●	2	2.7	0.2	9.525	3.97	4.4		○										
	2QP-DCGW11T302-LF	●	●	2	2.7	0.2	9.525	3.97	4.4			○									
	2QP-DCGW11T302-LC	●	●	2	2.7	0.2	9.525	3.97	4.4				○								
	2QP-DCGW11T302-H	●	●	2	2.7	0.2	9.525	3.97	4.4					○							

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Shape	Designation	Material		Dimension (mm)						Edge prep.					Wiper	Chipbreaker	
		BXA10	BXA20	No. of corners	LE	RE	IC	S	D1	Standard	L	LF	LC	H			
										Sharp edge							
		P Steel															
		M Stainless															
		K Cast iron															
		N Non-ferrous															
		S Superalloy															
		H Hard material	●	●													
	3QP-TPGW**	3QP-TPGW080202	●	●	3	2.3	0.2	4.76	2.38	2.3	○						
		3QP-TPGW090202	●	●	3	2.3	0.2	5.56	2.38	2.5	○						
		3QP-TPGW110202	●	●	3	2.3	0.2	6.35	2.38	2.8	○						
		3QP-TPGW110302-L	●	●	3	2.3	0.2	6.35	3.18	3.4		○					
		3QP-TPGW110302-LF	●	●	3	2.3	0.2	6.35	3.18	3.4			○				
	3QP-TPGW110302-LC	●	●	3	2.3	0.2	6.35	3.18	3.4				○				
	3QP-TPGW110302-H	●	●	3	2.3	0.2	6.35	3.18	3.4					○			
	3QP-TPGW130302	●	●	3	2.3	0.2	7.94	3.18	3.4	○							
	3QP-TPGW16T302	●	●	3	2.3	0.2	9.525	3.97	4.4	○							
	3QP-TPGW160402	●	●	3	2.3	0.2	9.525	4.76	4.4	○							
	3QP-TPGW160402-H	●	●	3	2.3	0.2	9.525	4.76	4.4					○			

Shape	Designation	Material		Dimension (mm)						Edge prep.					Wiper	Chipbreaker
		BXA10	BXA20	No. of corners	LE	RE	IC	S	D1	Standard	L	LF	LC	H		
										Sharp edge						
		P Steel														
		M Stainless														
		K Cast iron														
		N Non-ferrous														
	S Superalloy															
	H Hard material	●	●													
3QP-TCGW**	3QP-TCGW090202	●	●	3	2.3	0.2	5.56	2.38	2.5	○						
	3QP-TCGW110202	●	●	3	2.3	0.2	6.35	2.38	2.8	○						
	3QP-TCGW16T302	●	●	3	2.3	0.2	9.525	3.97	4.4	○						

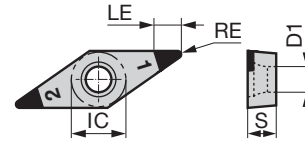
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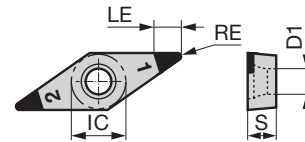
P	Steel																			
M	Stainless																			
K	Cast iron																			
N	Non-ferrous																			
S	Superalloy																			
H	Hard material	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●



Shape	Designation	BXA10	BXA20	No. of corners	Dimension (mm)					Edge prep.					Wiper	Chipbreaker						
					LE	RE	IC	S	D1	Standard	Sharp edge	L	LF	LC			H					
2QP-VBGW**	2QP-VBGW110202	●	●	2	3.5	0.2	6.35	2.38	2.8	○												
	2QP-VBGW110301	●	●	2	3.7	0.1	6.35	3.18	2.8	○												
	2QP-VBGW110302	●	●	2	3.5	0.2	6.35	3.18	2.8	○												
	2QP-VBGW110302-L	●	●	2	3.5	0.2	6.35	3.18	2.8		○											
	2QP-VBGW110302-LF	●	●	2	3.5	0.2	6.35	3.18	2.8			○										
	2QP-VBGW110302-LC	●	●	2	3.5	0.2	6.35	3.18	2.8				○									
	2QP-VBGW160402	●	●	2	3.5	0.2	9.525	4.76	4.4	○												
	2QP-VBGW160402-L	●	●	2	3.5	0.2	9.525	4.76	4.4		○											
	2QP-VBGW160402-LF	●	●	2	3.5	0.2	9.525	4.76	4.4			○										
	2QP-VBGW160402-LC	●	●	2	3.5	0.2	9.525	4.76	4.4				○									
	2QP-VBGW160402-H		●	2	3.5	0.2	9.525	4.76	4.4												○	



P	Steel																					
M	Stainless																					
K	Cast iron																					
N	Non-ferrous																					
S	Superalloy																					
H	Hard material	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●



Shape	Designation	BXA10	BXA20	No. of corners	Dimension (mm)					Edge prep.					Wiper	Chipbreaker						
					LE	RE	IC	S	D1	Standard	Sharp edge	L	LF	LC			H					
2QP-VCGW**	2QP-VCGW080202	●	●	2	3.5	0.2	4.76	2.38	2.3	○												
	2QP-VCGW160402	●	●	2	3.5	0.2	9.525	4.76	4.4	○												
	2QP-VCGW160402-H	●	●	2	3.5	0.2	9.525	4.76	4.4												○	

● : New

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