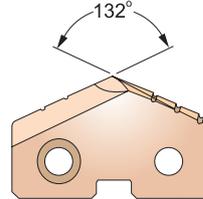


### SPADE DRILL INSERTS - CARBIDE(K20) EINWEG BOHREINSATZ - VOLLHARTMETALL(K20)

- ▶ For use in Gray cast iron up to 220 Brinell, nonferrous metals, copper, brass and aluminum.
- ▶ Set up time can be reduced due to changing inserts easily on the machine.
- ▶ Any non-standard size available.

- ▶ Zur Anwendung in Grauguss bis 220 Brinell, Nichteisen - Metallen, Kupfer, Messing und Aluminium
- ▶ Reduzierte Rüstzeiten, einfacher Einsatzwechsel auf der Maschine
- ▶ Jede Abmessung außerhalb des Kataloges lieferbar



cutting conditions : p.284

Series Min. to Max. (mm/inch)	Diameter			Thick Metric (mm/inch)	EDP No. CARBIDE (K20)		
	Inch (inch)	Metric (mm)	Decimal (inch)		TiN	TiCN	TiAlN
<b>Y</b> 9.50 (.374") to 11.07 (.436")	3/8"	9.50	.3740"	2.4 (3/32")	S1755095	S1760095	S1765095
		9.53	.3750"		S1705024	S1710024	S1715024
	25/64"	9.80	.3860"		S1755098	S1760098	S1765098
		9.92	.3906"		S1705025	S1710025	S1715025
	13/32"	10.00	.3937"		S1755100	S1760100	S1765100
		10.20	.4016"		S1755102	S1760102	S1765102
		10.32	.4063"		S1705026	S1710026	S1715026
		10.50	.4134"		S1755105	S1760105	S1765105
		10.72	.4219"		S1705027	S1710027	S1715027
		10.80	.4252"		S1755108	S1760108	S1765108
<b>Z</b> 11.11(.437") to 12.95(.510")	7/16"	11.00	.4331"	2.4 (3/32")	S1755110	S1760110	S1765110
		11.11	.4375"		S1705028	S1710028	S1715028
	11.50	.4528"	S1755115		S1760115	S1765115	
	29/64"	11.51	.4531"		S1705029	S1710029	S1715029
	15/32"	11.91	.4688"		S1705030	S1710030	S1715030
	12.00	.4724"	S1755120		S1760120	S1765120	
	31/64"	12.30	.4844"		S1705031	S1710031	S1715031
<b>0</b> 12.98 (.511") to 17.65 (.695")	1/2"	12.50	.4921"	3.2 (1/8")	S1755125	S1760125	S1765125
		12.70	.5000"		S1705032	S1710032	S1715032
	13.00	.5118"	S1755130		S1760130	S1765130	
	33/64"	13.10	.5156"		S1705033	S1710033	S1715033
	17/32"	13.49	.5313"		S1705034	S1710034	S1715034
	13.50	.5315"	S1755135		S1760135	S1765135	
	35/64"	13.89	.5469"		S1705035	S1710035	S1715035
	14.00	.5512"	S1755140		S1760140	S1765140	
	9/16"	14.29	.5625"		S1705036	S1710036	S1715036
	14.50	.5709"	S1755145		S1760145	S1765145	
	37/64"	14.68	.5781"		S1705037	S1710037	S1715037
	15.00	.5906"	S1755150		S1760150	S1765150	
	19/32"	15.08	.5938"		S1705038	S1710038	S1715038
39/64"	15.48	.6094"	S1705039	S1710039	S1715039		
15.50	.6102"	S1755155	S1760155	S1765155			
5/8"	15.88	.6250"	S1705040	S1710040	S1715040		
16.00	.6299"	S1755160	S1760160	S1765160			

◎ : Excellent ○ : Good

Non- alloyed Steels, Free Machining Steels	Carbon Steels		Alloy Steels		High Alloyed steels		Structural Steels		Tool Steels		Stainless Steels	Cast Iron		Aluminum	Copper Alloys
	-HRc24 (-HB250)	-HRc28 (-HB275)	HRc28~ (HB275~)	-HRc28 (-HB275)	HRc28~ (HB275~)	-HRc37 (-HB350)	HRc37~ (HB350~)	-HRc24 (-HB250)	HRc24~ (HB250~)	-HRc13 (-HB200)	HRc13~ (HB200~)	-HRc28 (-HB275)	-HRc19 (-HB220)	HRc19~ (HB220~)	-HRc8 (-HB180)
○	○	○	○	○	◎	◎	○	○	○	○	◎	○	○	◎	◎

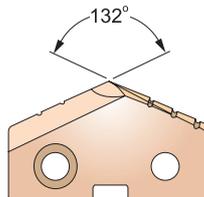
**YG SPADE DRILLS**

**SERIES 0,1**

**SPADE DRILL INSERTS - CARBIDE(K20)  
EINWEG BOHREINSATZ - VOLLHARTMETALL(K20)**

- ▶ For use in Gray cast iron up to 220 Brinell, nonferrous metals, copper, brass and aluminum.
- ▶ Set up time can be reduced due to changing inserts easily on the machine.
- ▶ Any non-standard size available.

- ▶ Zur Anwendung in Grauguss bis 220 Brinell, Nichteisen - Metallen, Kupfer, Messing und Aluminium
- ▶ Reduzierte Rüstzeiten, einfacher Einsatzwechsel auf der Maschine
- ▶ Jede Abmessung außerhalb des Kataloges lieferbar



cutting conditions : p.284

Series Min. to Max. (mm/inch)	Diameter			Thick Metric (mm/inch)	EDP No. CARBIDE (K20)				
	Inch (inch)	Metric (mm)	Decimal (inch)		TiN	TiCN	TiAlN		
<b>0</b>  12.98(.511") to 17.65(.695")	41/64"	16.27	.6406"	3.2 (1/8")	S1705041	S1710041	S1715041		
		16.50	.6496"		S1755165	S1760165	S1765165		
	21/32"	16.67	.6563"		S1705042	S1710042	S1715042		
		17.00	.6693"		S1755170	S1760170	S1765170		
	43/64"	17.07	.6719"		S1705043	S1710043	S1715043		
		17.46	.6875"		S1705044	S1710044	S1715044		
	11/16"	17.50	.6890"		S1755175	S1760175	S1765175		
		17.86	.7031"		S1705045	S1710045	S1715045		
	<b>1</b>  17.53 (.690") to 24.38 (.960")	45/64"	18.00		.7087"	4.0 (5/32")	S1755180	S1760180	S1765180
			18.26		.7188"		S1705046	S1710046	S1715046
23/32"		18.50	.7283"	S1755185	S1760185		S1765185		
		18.65	.7344"	S1705047	S1710047		S1715047		
47/64"		19.00	.7480"	S1755190	S1760190		S1765190		
		19.05	.7500"	S1705048	S1710048		S1715048		
3/4"		19.45	.7656"	S1705049	S1710049		S1715049		
		19.50	.7677"	S1755195	S1760195		S1765195		
25/32"		19.84	.7813"	S1705050	S1710050		S1715050		
		20.00	.7874"	S1755200	S1760200		S1765200		
51/64"		20.24	.7969"	S1705051	S1710051		S1715051		
		20.50	.8071"	S1755205	S1760205		S1765205		
13/16"		20.64	.8125"	S1705052	S1710052		S1715052		
		21.00	.8268"	S1755210	S1760210		S1765210		
27/32"		21.43	.8438"	S1705054	S1710054		S1715054		
		21.83	.8594"	S1705055	S1710055		S1715055		
55/64"		22.00	.8661"	S1755220	S1760220		S1765220		
		22.23	.8750"	S1705056	S1710056		S1715056		
7/8"		22.62	.8906"	S1705057	S1710057		S1715057		
		23.00	.9055"	S1755230	S1760230		S1765230		
29/32"	23.02	.9063"	S1705058	S1710058	S1715058				
	23.42	.9219"	S1705059	S1710059	S1715059				
59/64"	23.42	.9219"	S1705060	S1710060	S1715060				
	23.81	.9375"	S1755240	S1760240	S1765240				
15/16"	24.00	.9449"							

◎ : Excellent ○ : Good

Non-alloyed Steels, Free Machining Steels	Carbon Steels		Alloy Steels		High Alloyed steels		Structural Steels		Tool Steels		Stainless Steels	Cast Iron		Aluminum	Copper Alloys
	-HRc24 (-HB250)	-HRc28 (-HB275)	HRc28~ (-HB275~)	-HRc28 (-HB275)	HRc28~ (-HB275~)	-HRc37 (-HB350)	HRc37~ (-HB350~)	-HRc24 (-HB250)	HRc24~ (-HB250~)	-HRc13 (-HB200)		HRc13~ (-HB200~)	-HRc28 (-HB275)		
○	○	○	○	○	◎	◎	○	○	○	○	◎	○	○	◎	◎