

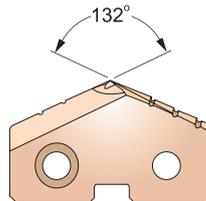
Y/G SPADE DRILLS

SERIES **Y,Z,0**

SM-POINT SPADE DRILL INSERTS FOR CAST IRON - CARBIDE(K10) SM-POINT EINWEG BOHREINSATZ - VOLLHARTMETALL(K10)

- ▶ High performance on Gray cast iron over 220 Brinell, malleable cast iron with short chips, silicon aluminum and copper alloys.
- ▶ Improved stability and hole straightness by newly developed thinning design.
- ▶ Less thrust force and excellent self-centering.
- ▶ Any non-standard size available.

- ▶ Beste Leistung in Grauguss über 220 Brinell, kurzspanendem Kugelgraphitguss, Si-Aluminium und Kupferlegierungen
- ▶ Erhöhte Stabilität und Fluchtgenauigkeit durch neu entwickelte Querschnittsgeometrie
- ▶ Verminderte Bohrkraft und ausgezeichnete Selbstzentrierung
- ▶ Jede Abmessung außerhalb des Kataloges lieferbar



cutting conditions : p.284

Series Min. to Max. (mm/inch)	Diameter			Thick Metric (mm/inch)	EDP No. CARBIDE (K10)		
	Inch (inch)	Metric (mm)	Decimal (inch)		TiN	TiCN	TiAlN
Y 9.50 (.374") to 11.07 (.436")	3/8"	9.50	.3740"	2.4 (3/32")	SM655095	SM660095	SM665095
		9.53	.3750"		SM605024	SM610024	SM615024
	25/64"	9.80	.3858"		SM655098	SM660098	SM665098
		9.92	.3906"		SM605025	SM610025	SM615025
	13/32"	10.00	.3937"		SM655100	SM660100	SM665100
		10.20	.4016"		SM655102	SM660102	SM665102
	27/64"	10.32	.4062"		SM605026	SM610026	SM615026
		10.50	.4134"		SM655105	SM660105	SM665105
	11.07 (.436")	10.72	.4219"		SM605027	SM610027	SM615027
			.4252"		SM655108	SM660108	SM665108
Z 11.11(.437") to 12.95(.510")	7/16"	11.00	.4331"	2.4 (3/32")	SM655110	SM660110	SM665110
		11.11	.4375"		SM605028	SM610028	SM615028
	11.50	.4528"	SM655115		SM660115	SM665115	
	29/64"	11.51	.4531"		SM605029	SM610029	SM615029
	15/32"	11.91	.4688"		SM605030	SM610030	SM615030
	12.00	.4724"	SM655120		SM660120	SM665120	
	31/64"	12.30	.4844"		SM605031	SM610031	SM615031
0 12.98 (.511") to 17.65 (.695")	1/2"	12.50	.4921"	3.2 (1/8")	SM655125	SM660125	SM665125
		12.70	.5000"		SM605032	SM610032	SM615032
	13.00	.5118"	SM655130		SM660130	SM665130	
	33/64"	13.10	.5156"		SM605033	SM610033	SM615033
	17/32"	13.49	.5312"		SM605034	SM610034	SM615034
	13.50	.5315"	SM655135		SM660135	SM665135	
	35/64"	13.89	.5469"		SM605035	SM610035	SM615035
	14.00	.5512"	SM655140		SM660140	SM665140	
	9/16"	14.29	.5625"		SM605036	SM610036	SM615036
	14.50	.5709"	SM655145		SM660145	SM665145	
17.65 (.695")	37/64"	14.68	.5781"	3.2 (1/8")	SM605037	SM610037	SM615037
		15.00	.5906"		SM655150	SM660150	SM665150
	19/32"	15.08	.5938"		SM605038	SM610038	SM615038
	39/64"	15.48	.6094"		SM605039	SM610039	SM615039
	15.50	.6102"	SM655155		SM660155	SM665155	
	5/8"	15.88	.6250"		SM605040	SM610040	SM615040
16.00	.6299"	SM655160	SM660160	SM665160			

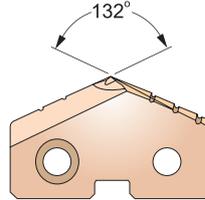
◎ : Excellent ○ : Good

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)		
												◎	◎		

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	Inch (inch)	Metric (mm)	Decimal (inch)		CARBIDE (K10)		
					TiN	TiCN	TiAlN
0 12.98(.511") to 17.65(.695")	41/64"	16.27	.6406"	3.2 (1/8")	SM605041	SM610041	SM615041
		16.50	.6496"		SM655165	SM660165	SM665165
	21/32"	16.67	.6562"		SM605042	SM610042	SM615042
		17.00	.6693"		SM655170	SM660170	SM665170
	43/64"	17.07	.6719"		SM605043	SM610043	SM615043
	11/16"	17.46	.6875"		SM605044	SM610044	SM615044
1 17.53 (.690") to 24.38 (.960")		17.50	.6890"	4.0 (5/32")	SM655175	SM660175	SM665175
	45/64"	17.86	.7031"		SM605045	SM610045	SM615045
		18.00	.7087"		SM655180	SM660180	SM665180
	23/32"	18.26	.7188"		SM605046	SM610046	SM615046
		18.50	.7283"		SM655185	SM660185	SM665185
	47/64"	18.65	.7344"		SM605047	SM610047	SM615047
		19.00	.7480"		SM655190	SM660190	SM665190
	3/4"	19.05	.7500"		SM605048	SM610048	SM615048
	49/64"	19.45	.7656"		SM605049	SM610049	SM615049
		19.50	.7677"		SM655195	SM660195	SM665195
	25/32"	19.84	.7812"		SM605050	SM610050	SM615050
		20.00	.7874"		SM655200	SM660200	SM665200
	51/64"	20.24	.7969"		SM605051	SM610051	SM615051
		20.50	.8071"		SM655205	SM660205	SM665205
	13/16"	20.64	.8125"		SM605052	SM610052	SM615052
		21.00	.8268"		SM655210	SM660210	SM665210
	27/32"	21.43	.8438"		SM605054	SM610054	SM615054
	55/64"	21.83	.8594"		SM605055	SM610055	SM615055
		22.00	.8661"		SM655220	SM660220	SM665220
	7/8"	22.23	.8750"		SM605056	SM610056	SM615056
57/64"	22.62	.8906"	SM605057	SM610057	SM615057		
	23.00	.9055"	SM655230	SM660230	SM665230		
29/32"	23.02	.9062"	SM605058	SM610058	SM615058		
59/64"	23.42	.9219"	SM605059	SM610059	SM615059		
15/16"	23.81	.9375"	SM605060	SM610060	SM615060		
	24.00	.9449"	SM655240	SM660240	SM665240		

◎ : 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)
												◎	◎		