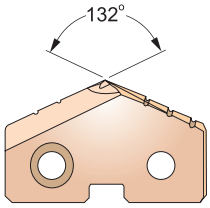
SPADE DRILLS

SERIES Y,Z,0

SM-POINT SPADE DRILL INSERTS - SUPER HSS T15
SM-POINT EINWEG BOHREINSATZ - SUPER HSS T15

- For use in high nickel alloys and materials over 280 Brinell.
- Improved stability and hole straightness by newly developed thinning design.
- Less thrust force and excellent self-centering.
- Any non-standard size available.

- Zur Anwendung bei legierten Stählen mit hohem Nickelanteil und Werkstoffen über 280 Brinell
- Erhöhte Stabilität und Fluchtgenauigkeit durch neu entwickelteQuerschneidengeometrie
- Verminderte Bohrkraft und ausgezeichnete Selbstzentrierung
- Jede Abmessung außerhalb des Kataloges lieferbar



cutting conditions : p.283

Series Min. to Max. (mm/inch)	Diameter			Thick	EDP No.		
					SUPER HSS (T15)		
	Inch (inch)	Metric (mm)	Decimal (inch)	Metric (mm/inch)	TiN	TiCN	TiAIN
Y 9.50 (.374″) to 11.07 (.436″)		9.50	.3740"	2.4 (3/32″)	SM155095	SM160095	SM165095
	3/8″	9.53	.3750"		SM105024	SM110024	SM115024
		9.80	.3858"		SM155098	SM160098	SM165098
	25/64″	9.92	.3906"		SM105025	SM110025	SM115025
		10.00	.3937"		SM155100	SM160100	SM165100
		10.20	.4016"		SM155102	SM160102	SM165102
	13/32″	10.32	.4062"		SM105026	SM110026	SM115026
		10.50	.4134"		SM155105	SM160105	SM165105
	27/64″	10.72	.4219"		SM105027	SM110027	SM115027
		10.80	.4252"		SM155108	SM160108	SM165108
		11.00	.4331"		SM155110	SM160110	SM165110
Z 11.11(.437″) to 12.95(.510″)	7/16″	11.11	.4375"	2.4 (3/32″)	SM105028	SM110028	SM115028
		11.50	.4528"		SM155115	SM160115	SM165115
	29/64″	11.51	.4531"		SM105029	SM110029	SM115029
	15/32″	11.91	.4688"		SM105030	SM110030	SM115030
		12.00	.4724"		SM155120	SM160120	SM165120
	31/64″	12.30	.4844"		SM105031	SM110031	SM115031
		12.50	.4921"		SM155125	SM160125	SM165125
	1/2″	12.70	.5000"		SM105032	SM110032	SM115032
0 12.98 (.511″) to 17.65 (.695″)		13.00	.5118"	3.2 (1/8″)	SM155130	SM160130	SM165130
	33/64″	13.10	.5156"		SM105033	SM110033	SM115033
	17/32″	13.49	.5312"		SM105034	SM110034	SM115034
		13.50	.5315"		SM155135	SM160135	SM165135
	35/64″	13.89	.5469"		SM105035	SM110035	SM115035
		14.00	.5512"		SM155140	SM160140	SM165140
	9/16″	14.29	.5625"		SM105036	SM110036	SM115036
		14.50	.5709"		SM155145	SM160145	SM165145
	37/64″	14.68	.5781"		SM105037	SM110037	SM115037
		15.00	.5906"		SM155150	SM160150	SM165150
	19/32″	15.08	.5938"		SM105038	SM110038	SM115038
	39/64″	15.48	.6094"		SM105039	SM110039	SM115039
		15.50	.6102"		SM155155	SM160155	SM165155
	5/8″	15.88	.6250"		SM105040	SM110040	SM115040
		16.00	.6299"		SM155160	SM160160	SM165160

◎ : 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)	~HB110
◎	◎	◎	◎	○	○	○	◎	◎	○	○	○	○	◎	○	○

SPADE DRILLS

SERIES 0,1

SM-POINT SPADE DRILL INSERTS - SUPER HSS T15
SM-POINT EINWEG BOHREINSATZ - SUPER HSS T15

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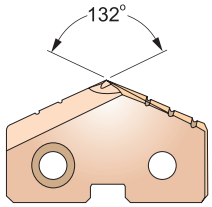

cutting conditions : p.283

Series Min. to Max. (mm/inch)	Diameter Inch (inch)	Diameter Metric (mm)	Diameter Decimal (inch)	Thick Metric (mm/inch)	EDP No. SUPER HSS (T15) TiN	TiCN	TiAlN
0 12.98(.511″) to 17.65(.695″)	41/64″	16.27	.6406"	3.2 (1/8″)	SM105041	SM110041	SM115041
		16.50	.6496"		SM155165	SM160165	SM165165
	21/32″	16.67	.6562"		SM105042	SM110042	SM115042
		17.00	.6693"		SM155170	SM160170	SM165170
	43/64″	17.07	.6719"		SM105043	SM110043	SM115043
	11/16″	17.46	.6875"		SM105044	SM110044	SM115044
		17.50	.6890"		SM155175	SM160175	SM165175
1 17.53 (.690″) to 24.38 (.960″)	45/64″	17.86	.7031"	4.0 (5/32″)	SM105045	SM110045	SM115045
		18.00	.7087"		SM155180	SM160180	SM165180
	23/32″	18.26	.7188"		SM105046	SM110046	SM115046
		18.50	.7283"		SM155185	SM160185	SM165185
	47/64″	18.65	.7344"		SM105047	SM110047	SM115047
		19.00	.7480"		SM155190	SM160190	SM165190
	3/4″	19.05	.7500"		SM105048	SM110048	SM115048
	49/64″	19.45	.7656"		SM105049	SM110049	SM115049
		19.50	.7677"		SM155195	SM160195	SM165195
	25/32″	19.84	.7812"		SM105050	SM110050	SM115050
		20.00	.7874"		SM155200	SM160200	SM165200
	51/64″	20.24	.7969"		SM105051	SM110051	SM115051
		20.50	.8071"		SM155205	SM160205	SM165205
	13/16″	20.64	.8125"		SM105052	SM110052	SM115052
		21.00	.8268"		SM155210	SM160210	SM165210
	27/32″	21.43	.8438"		SM105054	SM110054	SM115054
	55/64″	21.83	.8594"		SM105055	SM110055	SM115055
		22.00	.8661"		SM155220	SM160220	SM165220
	7/8″	22.23	.8750"		SM105056	SM110056	SM115056
	57/64″	22.62	.8906"		SM105057	SM110057	SM115057
		23.00	.9055"		SM155230	SM160230	SM165230
	29/32″	23.02	.9062"		SM105058	SM110058	SM115058
	59/64″	23.42	.9219"		SM105059	SM110059	SM115059
	15/16″	23.81	.9375"		SM105060	SM110060	SM115060
		24.00	.9449"		SM155240	SM160240	SM165240

◎ : 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)	~HB110
◎	◎	◎	◎	○	○	○	◎	◎	○	○	○	○	◎	○	○