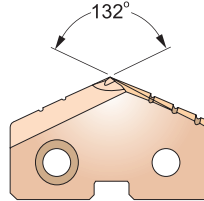


SM-POINT SPADE DRILL INSERTS - CARBIDE(P40) SM-POINT EINWEG BOHREINSATZ - VOLLHARTMETALL(P40)

- ▶ For general use in carbon steels and alloys steels.
- ▶ Improved stability and hole straightness by newly developed thinning design.
- ▶ Less thrust force and excellent self-centering.
- ▶ Any non-standard size available.

- ▶ Für allgemeine Anwendung in Kohlenstoffstählen und legierten Stählen
- ▶ Erhöhte Stabilität und Fluchtgenauigkeit durch neu entwickelte Querschnidengeometrie
- ▶ 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 (P40) | | | |
|--|----------------|----------------|-------------------|------------------------------|--------------------------|----------|----------|----------|
| | 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") | SM855095 | SM860095 | SM865095 | |
| | | 9.53 | .3750" | | SM805024 | SM810024 | SM815024 | |
| | 25/64" | 9.80 | .3858" | | SM855098 | SM860098 | SM865098 | |
| | | 9.92 | .3906" | | SM805025 | SM810025 | SM815025 | |
| | 13/32" | 10.00 | .3937" | | SM855100 | SM860100 | SM865100 | |
| | | 10.20 | .4016" | | SM855102 | SM860102 | SM865102 | |
| | | 10.32 | .4062" | | SM805026 | SM810026 | SM815026 | |
| | | 10.50 | .4134" | | SM855105 | SM860105 | SM865105 | |
| | | 27/64" | 10.72 | | .4219" | SM805027 | SM810027 | SM815027 |
| | | 10.80 | .4252" | | SM855108 | SM860108 | SM865108 | |
| Z 11.11(.437") to 12.95(.510") | 7/16" | 11.00 | .4331" | 2.4 (3/32") | SM855110 | SM860110 | SM865110 | |
| | | 11.11 | .4375" | | SM805028 | SM810028 | SM815028 | |
| | 29/64" | 11.50 | .4528" | | SM855115 | SM860115 | SM865115 | |
| | | 11.51 | .4531" | | SM805029 | SM810029 | SM815029 | |
| | 15/32" | 11.91 | .4688" | | SM805030 | SM810030 | SM815030 | |
| | | 12.00 | .4724" | | SM855120 | SM860120 | SM865120 | |
| | 31/64" | 12.30 | .4844" | | SM805031 | SM810031 | SM815031 | |
| 1/2" | 12.50 | .4921" | SM855125 | SM860125 | SM865125 | | | |
| | 12.70 | .5000" | SM805032 | SM810032 | SM815032 | | | |
| 0 12.98 (.511") to 17.65 (.695") | 33/64" | 13.00 | .5118" | 3.2 (1/8") | SM855130 | SM860130 | SM865130 | |
| | | 13.10 | .5156" | | SM805033 | SM810033 | SM815033 | |
| | 17/32" | 13.49 | .5312" | | SM805034 | SM810034 | SM815034 | |
| | | 13.50 | .5315" | | SM855135 | SM860135 | SM865135 | |
| | 35/64" | 13.89 | .5469" | | SM805035 | SM810035 | SM815035 | |
| | | 14.00 | .5512" | | SM855140 | SM860140 | SM865140 | |
| | 9/16" | 14.29 | .5625" | | SM805036 | SM810036 | SM815036 | |
| | | 14.50 | .5709" | | SM855145 | SM860145 | SM865145 | |
| | 37/64" | 14.68 | .5781" | | SM805037 | SM810037 | SM815037 | |
| | | 15.00 | .5906" | | SM855150 | SM860150 | SM865150 | |
| | 19/32" | 15.08 | .5938" | | SM805038 | SM810038 | SM815038 | |
| | | 15.48 | .6094" | | SM805039 | SM810039 | SM815039 | |
| | 39/64" | 15.50 | .6102" | | SM855155 | SM860155 | SM865155 | |
| 15.88 | | .6250" | SM805040 | SM810040 | SM815040 | | | |
| 5/8" | 15.88 | .6250" | SM855160 | SM860160 | SM865160 | | | |
| | 16.00 | .6299" | | | | | | |

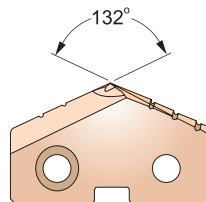
◎ : Excellent ○ : Good

| Non-alloy 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 |
| ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ○ | ○ | ○ | ○ | ○ | ○ |

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SM-POINT EINWEG BOHREINSATZ - VOLLHARTMETALL(P40)

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cutting conditions : p.284

| Series Min. to Max. (mm/inch) | Diameter | | | Thick Metric (mm/inch) | EDP No. CARBIDE (P40) | | |
|--|----------------|----------------|-------------------|------------------------------|--------------------------|----------|----------|
| | Inch (inch) | Metric (mm) | Decimal (inch) | | TiN | TiCN | TiAlN |
| 0 12.98(.511") to 17.65(.695") | 41/64" | 16.27 | .6406" | 3.2 (1/8") | SM805041 | SM810041 | SM815041 |
| | | 16.50 | .6496" | | SM855165 | SM860165 | SM865165 |
| | 21/32" | 16.67 | .6562" | | SM805042 | SM810042 | SM815042 |
| | | 17.00 | .6693" | | SM855170 | SM860170 | SM865170 |
| | 43/64" | 17.07 | .6719" | | SM805043 | SM810043 | SM815043 |
| | 11/16" | 17.46 | .6875" | | SM805044 | SM810044 | SM815044 |
| | | 17.50 | .6890" | | SM855175 | SM860175 | SM815175 |
| | 45/64" | 17.86 | .7031" | | SM805045 | SM810045 | SM815045 |
| | | 18.00 | .7087" | | SM855180 | SM860180 | SM865180 |
| | 23/32" | 18.26 | .7188" | | SM805046 | SM810046 | SM815046 |
| | 18.50 | .7283" | SM855185 | SM860185 | SM865185 | | |
| 47/64" | 18.65 | .7344" | SM805047 | SM810047 | SM815047 | | |
| | 19.00 | .7480" | SM855190 | SM860190 | SM865190 | | |
| 3/4" | 19.05 | .7500" | SM805048 | SM810048 | SM815048 | | |
| 49/64" | 19.45 | .7656" | SM805049 | SM810049 | SM815049 | | |
| | 19.50 | .7677" | SM855195 | SM860195 | SM865195 | | |
| 1 17.53 (.690") to 24.38 (.960") | 25/32" | 19.84 | .7812" | 4.0 (5/32") | SM805050 | SM810050 | SM815050 |
| | | 20.00 | .7874" | | SM855200 | SM860200 | SM865200 |
| | 51/64" | 20.24 | .7969" | | SM805051 | SM810051 | SM815051 |
| | | 20.50 | .8071" | | SM855205 | SM860205 | SM865205 |
| | 13/16" | 20.64 | .8125" | | SM805052 | SM810052 | SM815052 |
| | | 21.00 | .8268" | | SM855210 | SM860210 | SM865210 |
| | 27/32" | 21.43 | .8438" | | SM805054 | SM810054 | SM815054 |
| | 55/64" | 21.83 | .8594" | | SM805055 | SM810055 | SM815055 |
| | | 22.00 | .8661" | | SM855220 | SM860220 | SM865220 |
| | 7/8" | 22.23 | .8750" | | SM805056 | SM810056 | SM815056 |
| | 57/64" | 22.62 | .8906" | | SM805057 | SM810057 | SM815057 |
| | | 23.00 | .9055" | | SM855230 | SM860230 | SM865230 |
| | 29/32" | 23.02 | .9062" | | SM805058 | SM810058 | SM815058 |
| | 59/64" | 23.42 | .9219" | | SM805059 | SM810059 | SM815059 |
| | 15/16" | 23.81 | .9375" | | SM805060 | SM810060 | SM815060 |
| | 24.00 | .9449" | SM855240 | SM860240 | SM865240 | | |

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| 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) | | |
| ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ○ | ○ | ○ | ○ | ○ |