



heson

Diamant-Bornitrid-Werkzeuge

Diamond-Boron nitride-Tools
Outils Diamantés ou nitrure de bore



Rotating
precision tools
Outils rotatifs
de précision

Rotierende
Präzisionswerkzeuge



Wir fertigen Diamant- und Bornitrid- Werkzeuge für die gesamte Industrie in galvanischer Bindung

Wir bieten das umfangreichste Diamant- und Bornitrid-Werkzeug-Angebot, mit höchstem Qualitätsstandard – zu einem ehrlichen Preis.

Wir produzieren als Familienunternehmen in den Winzerdörfern Dietlingen/Ellmendingen.

In diesen ländlichen Orten sind wir umgeben von herrlichen Weinbergen und Feldern. In unserer Nachbarschaft alte Fachwerkhäuser mit guten Wein- und Speiselokalen, die zum Einkehren einladen.

Wo der schwäbische Fleiß zu Hause ist, fertigen wir mit hohem Aufwand und dem Know how jahrelanger Erfahrung

Diamant- und Bornitrid-Werkzeuge – in vielen Formen und Abmessungen.

Durch ständige und präzise Fertigungsqualität haben wir als führender Diamantfeilen-Hersteller einen festen Platz im Wettbewerb eingenommen. Zuverlässige Lieferbereitschaft und seriöse Auftragsabwicklung sind bei uns selbstverständlich – und Diamanten-Kauf ist Vertrauenssache – ein großer Kundenstamm schenkt uns darum sein Vertrauen.

Um auch in der Zukunft marktorientiert fertigen zu können, sind wir gerne für Sie der Ansprechpartner, der in der Lage ist, mit zu Ihren Problemlösungen beizutragen.

We manufacture electro-plated diamond and boron nitride tools for all industries

We offer the most comprehensive product range of diamond and boron nitride tools featuring highest quality levels combined with a reasonable price.

As a family-owned business we are manufacturing at the vintage villages of Dietlingen/Ellmendingen.

These rural places are surrounded by splendid vineyards and fields. There are old framed houses in our neighbourhood with excellent wine taverns and restaurants, where you are tempted to stop.

In this area we are manufacturing diamond and boron nitride tools in many shapes and dimensions with high technical

efforts and the know-how gathered during many years of experience.

As a leading manufacturer of diamond files we have taken a firm position in the competitive field due to a constant and precise manufacturing quality. Our readiness to deliver and our reliability with regard to order handling are a matter of course. The purchase of diamonds is a matter of trust – and, therefore, a great number of customers place their confidence in our firm.

To ensure that in future our fabrication will be market orientated too, we wish to be your partner for all questions and concerns and we are sure to be able to solve your problems.

Nous fabriquons des outils avec une finition galvanique de diamants ou CBN pour l'industrie générale.

Nous offrons la plus grande gamme d'outils diamantés ou avec un revêtement de nitrure de bore avec un standard de qualité le plus élevé et un prix très raisonnable.

Comme entreprise familiale nous produisons dans les villages viticoles Dietlingen/Ellmendingen.

Dans ces endroits ruraux il y a des vignobles et des champs magnifiques. Près d'ici il y a aussi beaucoup de vieilles maisons à colombage avec des tavernes et des restaurants excellents où on est tenté d'entrer se restaurer.

Là nous fabriquons des outils diamantés et en nitrure de bore avec un grand choix de formes et dimensions et avec une

dépense technique d'un niveau haut et un savoir faire acquis pendant des années d'expérience.

Grâce à une qualité de production précise et constante, nous tenons une place stable comme fabricant de limes diamantées. Une disponibilité sur stock et une exécution sérieuse des commandes sont toujours garanties. Comme l'achat des diamants est une affaire de confiance nous avons gagné celle-ci de beaucoup de clients.

Aussi dans l'avenir nous orienterons notre production sur les besoins du marché. Comme votre partenaire nous sommes sûrement dans une position de résoudre vos problèmes.



Firmengründer
Herbert Sonnenberg



Geschäftsführer
Frank Sonnenberg





Schleif- werkzeuge aus erster Hand

Grinding tools
at first hand

Outils de
rectification
de première
main

Was Diamantwerkzeuge wirklich kosten, sieht man nicht am Preis.

The price doesn't tell what diamond tools
really cost.

Le prix n'indique pas combien les outils
diamantés coûtent vraiment.

Langlebiger ist wirtschaftlicher ist preiswerter.

More durable that's more economic
that's more reasonable.

Plus de longue vie c'est plus économique
c'est plus avantageux.



Qualität in jeder Form

Quality
with each
form

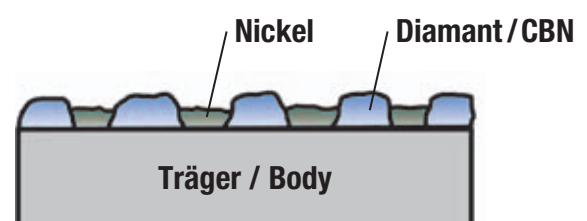
Qualité
avec chaque
forme



**Galvanisch gebundene
Diamant-/Bornitrid-
Werkzeuge**

Electro-plated
diamond/CBN tools

Outils galvanisés de
diamants/CBN





Diamant/Bornitrid Serien- und Sonderanfertigungen

Wir liefern Qualitäts-Werkzeuge in jeder technisch machbaren Form – nach Ihren Anforderungen und Wünschen.



Produziert auf eigenen Drehautomaten die Werkstücke bis zu einem Dm. von 150 mm drehen können.



Beschichtung vom Kunden angelieferter Werkzeugrohlinge

Beschichtung sämtlicher Stahl-Werkstoffe für alle Körnungen in Diamant oder Bornitrid.



Neubeschichtung abgenutzter Werkzeuge

Durch Neubeschichtung vorhandener, abgenutzter Werkzeuge, erzielen unsere Kunden wirtschaftliche Vorteile, da durch sinnvolle Neubeschichtung die Trägerkörper mehrfach verwendet werden können.



Service

Fragen Sie nach den technischen Möglichkeiten – wir bieten Ihnen gerne unseren ganzen Service zu Ihrem Nutzen an.

Diamond/Boron Nitride Series production and specially made to specification

We supply quality tools in any technically possible form upon your specifications and request. Produced on our own automatic lathes, tools can be turned up to a diameter of 150 mm.

Coating of tool blanks which are supplied by our customer

Coating of all steel materials for all grains in diamond or boron nitride.

Recoating of used tools

By means of a recoating of existing, used tools our customers are offered economical advantages, since due to an effective recovering, the bodies can be used several times.

Service

Please ask for technical possibilities – we would be pleased to offer our full service for your benefit.

Diamant/Nitride de Bore Fabrication en série et fabrication spéciale

Nous fournissons des outils de qualité dans chaque forme possible selon vos spécifications et demandes. Fabriqué sur nos propres décolleteuses, les outils peuvent être tournés à un diamètre de 150 mm.

Couchage des ébauches d'outil fournies par nos clients

Revêtement de tous les matériaux en acier pour toutes les granularités en diamant ou nitrure de bore.

Regarnissage des outils usés

Par une recouverture des outils existants et usés, nos clients obtiennent des avantages économiques, car avec un regarnissage ingénieux les corps peuvent être utilisés plusieurs fois.

Service

Demandez des possibilités techniques – nous vous offrons avec plaisir notre service entier à votre profit.



Rotierende
Präzisionswerkzeuge

Galvanisch gebundene Diamant-/Bornitrid- Werkzeuge

Electro-plated
diamond/CBN tools Outils galvanisés de
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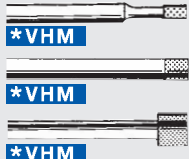
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| 0,7 | VHM | ■ | | | | | | | | | | | | | | | | | | | | | | |
| 0,8 | VHM | ■ | | | | ■ | | | | | | | | | | | | | | | | | | |
| 0,9 | VHM | ■ | | | | | | | | | | | | | | | | | | | | | | |
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| 1,2 | VHM | ■ | | | | | | | | | | | | | | | | | | | | | | |
| 1,3 | VHM | ■ | | | | | | | | | | | | | | | | | | | | | | |
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| 2,8 | VHM | ■ | | | | | | | | | | | | | | | | | | | | | | |
| 2,9 | VHM | ■ | | | | | | | | | | | | | | | | | | | | | | |
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| 4,0 | VHM | | | ■ | | | | | | | | | | | | | | | | | | | | |
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| 6,0 | VHM | | | ■ | | | | | | | | ■ | | | | | | | | | | | | |
| 6,2 | VHM | | | | | | | | | | ■ | | | | | | | | | | | | | |
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| 7,0 | VHM | | | | | | | | | | | ■ | | | | | | | | | | | | |
| 7,2 | VHM | | | | | | | | | | ■ | | | | | | | | | | | | | |
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| 7,4 | VHM | | | | | | | | | | ■ | | | | | | | | | | | | | |
| 8,0 | VHM | | | | | | | | | | | ■ | | | | | | | | | | | | |
| 8,2 | VHM | | | | | | | | | | ■ | | | | | | | | | | | | | |
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| 8,4 | VHM | | | | | | | | | | ■ | | | | | | | | | | | | | |
| 9,2 | VHM | | | | | | | | | | ■ | | | | | | | | | | | | | |
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| 9,4 | VHM | | | | | | | | | | ■ | | | | | | | | | | | | | |
| 10,0 | VHM | | | | | | | | | | | ■ | | | ■ | | | | | | | | | |
| 10,2 | VHM | | | | | | | | | | ■ | | | | | | | | | | | | | |
| 10,3 | VHM | | | | | | | | | | ■ | | | | | | | | | | | | | |

**Galvanisch gebundene
Diamant-/Bornitrid-
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Electro-plated diamond/CBN tools Outils galvanisés de diamants/CBN

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*VHM

*VHM

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| Ø mm | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | | |
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| 12,4 VHM | | | | | | | | | | ■ | | | | | | | | | | | | | | |
| 14,0 VHM | | | | | | | | | | | ■ | | | | | | | | | | | | | |
| 15,0 VHM | | | | | | | | | | | ■ | | ■ | ■ | | | | | | | | | | |
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| 15,4 VHM | | | | | | | | | | ■ | | | | | | | | | | | | | | |
| 16,0 VHM | | | | | | | | | | | ■ | | | | | | | | | | | | | |
| 18,0 VHM | | | | | | | | | | | ■ | | ■ | ■ | | | | | | | | | | |
| 20,0 VHM | | | | | | | | | | | ■ | | ■ | ■ | | | | | | | | | | |
| 25,0 VHM | | | | | | | | | | | | | ■ | ■ | | | | | | | | | | |
| 30,0 VHM | | | | | | | | | | | | | | ■ | | | | | | | | | | |



Stahl
Steel

Kugel / Spherical mould / Forme sphérique / Forma esférica

| Ø mm | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 |
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| 0,6 | | | | | | ■ | | | | | | | | | | | | | | | | |
| 0,7 | | | | | | ■ | | | | | | | | | | | | | | | | |
| 0,8 | | | | | | ■ | | | | | | | | | | | | | | | | |
| 0,9 | | | | | | ■ | | | | | | | | | | | | | | | | |
| 1,0 | | | | | | ■ | | | | | | | | | | | | | | | | |
| 1,1 | | | | | | ■ | | | | | | | | | | | | | | | | |
| 1,2 | | | | | | ■ | | | | | | | | | | | | | | | | |
| 1,3 | | | | | | ■ | | | | | | | | | | | | | | | | |
| 1,4 | | | | | | ■ | | | | | | | | | | | | | | | | |
| 1,5 | | | | | | ■ | | | | | | | | | | | | | | | | |
| 1,6 | | | | | | ■ | | | | | | | | | | | | | | | | |
| 1,7 | | | | | | ■ | | | | | | | | | | | | | | | | |
| 1,8 | | | | | | ■ | | | | | | | | | | | | | | | | |
| 1,9 | | | | | | ■ | | | | | | | | | | | | | | | | |
| 2,0 | | | | ■ | | ■ | | | | | | | | | | | | | | | | |
| 2,5 | | | | ■ | | ■ | | | | | | | | | | | | | | | | |
| 3,0 | | | | ■ | | ■ | | | | | | | | | | | | | | | | |
| 4,0 | | | | ■ | | ■ | | | | | | | | | | | | | | | | |
| 5,0 | | | | ■ | | ■ | | | | | | | | | | | | | | | | |
| 6,0 | | | | | | ■ | | | | | | | | | | | | | | | | |
| 8,0 | | | | | | ■ | | | | | | | | | | | | | | | | |
| 10,0 | | | | | | ■ | | | | | | | | | | | | | | | | |
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| 18,0 | | | | | | ■ | | | | | | | | | | | | | | | | |
| 20,0 | | | | | | ■ | | | | | | | | | | | | | | | | |
| 22,0 | | | | | | ■ | | | | | | | | | | | | | | | | |
| 25,0 | | | | | | ■ | | | | | | | | | | | | | | | | |
| 30,0 | | | | | | ■ | | | | | | | | | | | | | | | | |



*VHM

Kugel VOLLHARTMETALL / Spherical mould solid hard metal / Forme sphérique métal dur massif / Forma esférica

| Ø mm | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 |
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| 8,0 VHM | | | | | | | ■ | | | | | | | | | | | | | | | |



Rotierende
Präzisionswerkzeuge

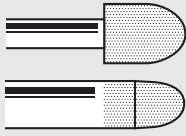
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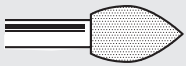
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Steel

Halbkugel / Half ball / Demi-boule

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Stahl
Steel

Flamme / Flame / Flamme

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Stahl
Steel

Kegelstifte / Tapered pins / Goupilles coniques

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|------|------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | | | | | | | | | | | | | | | | | | |
| 3,0 | | | | | | | | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4,0 | | | | | | | | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5,0 | | | | | | | | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6,0 | | | | | | | | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8,0 | | | | | | | | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10,0 | | | | | | | | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12,0 | | | | | | | | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14,0 | | | | | | | | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16,0 | | | | | | | | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18,0 | | | | | | | | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20,0 | | | | | | | | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25,0 | | | | | | | | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30,0 | | | | | | | | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35,0 | | | | | | | | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40,0 | | | | | | | | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Stahl
Steel

Konusschleifstifte / Cone abrasive pencils / Meulettes coniques sur tige

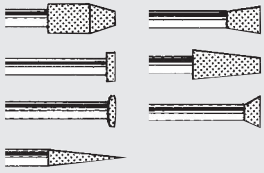
| Gradzahl / Ges.-Winkel | Seite/Page | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | | | | | | | | | | | | | | | | | | |
| 5° | | | | | | | | | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6° | | | | | | | | | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8° | | | | | | | | | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10° | | | | | | | | | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12° | | | | | ■ | | | | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14° | | | | | | | | | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16° | | | | | | | | | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18° | | | | | | | | | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20° | | | | | | | | | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Galvanisch gebundene
Diamant-/Bornitrid-
Werkzeuge**

Electro-plated diamond/CBN tools Outils galvanisés de diamants/CBN

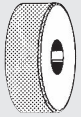
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Stahl / Steel

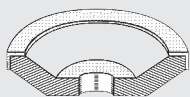
| Schleifstifte, Formschleifstifte / Abrasive pencils, shaped abrasive pencils / Meulettes sur tige, meulettes fe forme | |
|---|---|
| Ø mm | Seite/Page |
| | 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 |
| 6,0 | ■ |
| 0,1-3,0 | ■ |
| 6,0-3,0 | ■ |
| 3,5-6,0 | ■ |
| 6,0-2,5 | ■ |



| Schleifwalzen / Diamond-boron nitride grinding disks / Meules diamantées au nitrure de bore / Muelas de diamante/nitruro de boro | |
|--|---|
| Walzen- Ø mm | Seite/Page |
| | 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 |
| 10 | ■ |
| 12 | ■ |
| 15 | ■ |
| 18 | ■ |
| 20 | ■ |
| 25 | ■ |
| 30 | ■ |
| 35 | ■ |
| 40 | ■ |
| 45 | ■ |
| 50 | ■ |
| 60 | ■ |
| 75 | ■ |



| Trennscheiben / Separating disks / Meules à tronçonner / Muelas para tronzar | |
|--|---|
| Scheiben- Ø mm | Seite/Page |
| | 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 |
| 20 | ■ |
| 25 | ■ |
| 32 | ■ |
| 40 | ■ |
| 50 | ■ |
| 63 | ■ |
| 100 | ■ |
| 125 | ■ |



| Topscheibe / Cup wheel / Meule forme coupelle | |
|---|---|
| Ø mm | Seite/Page |
| | 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 |
| 80 | ■ |



Rotierende
Präzisionswerkzeuge



Anwendungsinformationen



Drehzahlrechner

Wann Diamant?

Diamantwerkzeuge werden eingesetzt bei der Bearbeitung von:

- Hartmetall
- Keramik
- Glas
- Gummi
- Kunststoff
- Nichteisenmetalle
- härtbaren Hartstoffen
- Supernickellegierungen
- Ferriten
- Aufpanzerungen
- Stählen mit geringerer Härte

Wann Bornitrid- Werkzeuge?

Kubisches Bornitrid-CBN wird eingesetzt vorwiegend bei:

gehärteten Eisenlegierungen (hochlegiert), wie:

- Werkzeugstähle
- Matritzenstähle
- Kugellagerstähle
- rostfreie Stähle
- Eisenlegierungen (zum Teil auch weich)
- Aufpanzerungen
- harte Hochtemperaturwerkstoffe auf Kobalt- oder Nickelbasis
- Supernickellegierungen

Diamanten/Monokristalliner/ Industriediamanten

Unsere blockigen aber schneidfreudigen Diamanten sind in der industriellen Technik weit verbreitet in Schleif-, Läpp- und Polierprozessen. Der Diamant weist eine monokristalline Gitterstruktur auf, die Gleitebenen sind parallel zur optischen Achse orientiert. Bei Belastung bricht das monokristalline Diamantkorn entlang der parallelen Spaltenebenen. Hierdurch entstehen Körner in blockiger Form mit scharfen Schneidkanten.

Diamant ist der härteste bekannte Werkstoff. Zunächst nur als Naturdiamant eingesetzt, der dann nach Größe sortiert, zermahlen oder einer Oberflächenbehandlung unterzogen wurde. Erst seit der Entwicklung der Diamantsynthese-Technologie können Diamantkörnchen auch mit kontrollierten Eigenschaften hergestellt werden. Die Form des Kristalls kann so beeinflusst werden, dass sie unregelmäßig und scharf oder ein vollkommener Oktaeder ist, während gleichzeitig die Festigkeit des Kristalls über einen größeren Wertebereich eingestellt werden kann.

Bei der Herstellung synthetischer Diamantkörnchen spielen Verarbeitungsverfahren und Qualitätskontrolle eine sehr wichtige Rolle. Die Körnungen werden nicht einfach nur nach Größe und

Form sortiert, sondern auch nach Reinheit, Festigkeit und thermischer Stabilität klassifiziert.

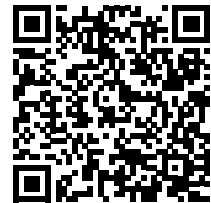
CBN Black (kubisches Bornitrid)

Kubisches Bornitrid (CBN) ist nach synthetischem Diamant der zweithärteste Werkstoff und wird aus hexagonalem Bornitrid unter Bedingungen synthetisiert , die denen bei der Herstellung von synthetischem Diamant aus Graphit ähnelt. Zu den wünschenswerten Eigenschaften eines Schleifmittels zählen große Härte, Zähigkeit, Abriebfestigkeit , thermische und chemische Beständigkeit sowie die Fähigkeit während des Einsatzes scharfe Schneidkanten zu behalten.

Härte ist eine entscheidende Eigenschaft für jedes Schleifmittel. Jedoch erleiden die meisten Schleifmittel bei hohen Temperaturen während der Anwendung einen Härteverlust. Einer der physikalischen Vorzüge von CBN gegenüber herkömmlichen Schleifmitteln ist, dass es seine höhere Härte bei Umgebungstemperatur über einen großen Temperaturbereich hinweg beibehält.

CBN Schleifmittel ermöglichen beim Schleifen, Honen und Feinschlichten gehärteter Eisenwerkstoffe und schwer zerspanbarer Legierungen im Vergleich zu herkömmlichen Schleifmitteln eine höhere

Produktivität und beträchtlich längere Werkzeugstandzeiten. CBN ist beim Schleifen von Werkzeugen sowie bei Schleifvorgängen in der Massenfertigung fest etabliert, und wird in der Automobilindustrie ebenso genutzt wie im allgemeinen Maschinenbau, sowie in der Luft- und Raumfahrtindustrie . Anwendungsbeispiele hierfür sind Nockenwellen, Kurbelwellen, Einspritzdüsen, Getriebeteile, Getriebe, Gleichlaufgelenke, Lenkteile und Kompressorkomponenten. Zu den vielen Vorteilen von CBN gehört die verbesserte Oberflächenbeschaffenheit und die Erzeugung günstigerer Druckeigenstressungen auf der Oberfläche.



Info [English](#)



1
a

**Diamant-
Bornitrid-
Schleifstifte
*VHM**
Zylinderform


Cylindrical mould
Forme cylindrique



Bestell-Beispiel

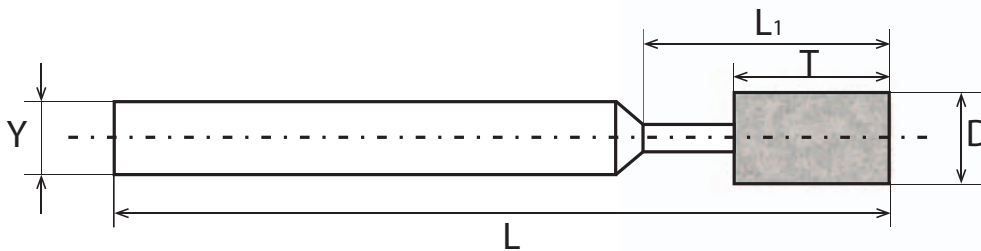
D-S 101/D126
B-S 101/B126

***VHM** Voll-Hart-Metall
Solid hard metal
Métal dur massif

| Best.-Nr. | Kopf-Ø mm | D | Belaglänge | | Schaft-Ø | | Halslänge | | Gesamtlänge | | Körnung | | | |
|---|--------------|-------------|------------|---|----------|---|-----------|----------------|-------------|----|---------|----------------------|----------------|------------------|
| | | | mm | T | mm | Y | mm | L ₁ | mm | L | | | | |
|  | | | | | | | | | | | | Schaft-Ø 3 mm | Diamant | Bornitrid |
| B/D-S 100/4 | 0,4 | *VHM | 2 | | | | | | | 40 | | Max D30 | Max B30 | |
| B/D-S 100/5 | 0,5 | *VHM | 2 | | | | | | | 40 | | Max D64 | Max B64 | |
| B/D-S 100/6 | 0,6 | *VHM | 3 | | | | | | | 40 | | Max D91 | Max B91 | |
| B/D-S 100/7 | 0,7 | *VHM | 3 | | | | | | | 40 | | Max D91 | Max B91 | |
| B/D-S 100/8 | 0,8 | *VHM | 3 | | | | | | | 40 | | Max D91 | Max B91 | |
| B/D-S 100/9 | 0,9 | *VHM | 3 | | | | | | | 40 | | Max D91 | Max B91 | |
| B/D-S 101 | 1,0 | *VHM | 3 | | | | | | | 40 | | | | |
| B/D-S 101/1 | 1,1 | *VHM | 3 | | | | | | | 40 | | D 151 | B 151 | |
| B/D-S 101/2 | 1,2 | *VHM | 3 | | | | | | | 40 | | | | |
| B/D-S 101/3 | 1,3 | *VHM | 3 | | | | | | | 40 | | | | |
| B/D-S 101/4 | 1,4 | *VHM | 3 | | | | | | | 40 | | | | |
| B/D-S 102 | 1,5 | *VHM | 3 | | | | | | | 40 | | D 126 | B 126 | |
| B/D-S 102/6 | 1,6 | *VHM | 4 | | | | | | | 40 | | | | |
| B/D-S 102/7 | 1,7 | *VHM | 4 | | | | | | | 40 | | | | |
| B/D-S 102/8 | 1,8 | *VHM | 4 | | | | | | | 40 | | D 107 | B 107 | |
| B/D-S 102/9 | 1,9 | *VHM | 4 | | | | | | | 40 | | | | |
| B/D-S 103 | 2,0 | *VHM | 5 | | | | | | | 40 | | | | |
| B/D-S 103/1 | 2,1 | *VHM | 5 | | | | | | | 40 | | D 91 | B 91 | |
| B/D-S 103/2 | 2,2 | *VHM | 5 | | | | | | | 40 | | | | |
| B/D-S 103/3 | 2,3 | *VHM | 5 | | | | | | | 40 | | | | |
| B/D-S 103/4 | 2,4 | *VHM | 5 | | | | | | | 40 | | | | |
| B/D-S 104 | 2,5 | *VHM | 5 | | | | | | | 40 | | D 76 | B 76 | |
| B/D-S 104/6 | 2,6 | *VHM | 5 | | | | | | | 40 | | | | |
| B/D-S 104/7 | 2,7 | *VHM | 5 | | | | | | | 40 | | | | |
| B/D-S 104/8 | 2,8 | *VHM | 5 | | | | | | | 40 | | D 64 | B 64 | |
| B/D-S 104/9 | 2,9 | *VHM | 5 | | | | | | | 40 | | | | |
| B/D-S 105 | 3,0 | *VHM | 5 | | | | | | | 40 | | D 54 | B 54 | |
| | | | | | | | | | | | | D 46 | B 46 | |
| | | | | | | | | | | | | D 252 | B 252 | |
| | | | | | | | | | | | | D 30 | B 30 | |
| | | | | | | | | | | | | D 181 | B 181 | |

Ø 3 mm
***VHM**

siehe nächste Seite Ergänzungen Halslängen L₁
see your next page completion for L₁
voyez prochaine page complément pour L₁



| | Diamant | Bornitrid |
|--|---------|-----------|
| | D 30 | B 30 |
| | D 181 | B 181 |
| | D 54 | B 54 |
| | D 46 | B 46 |
| | D 252 | B 252 |
| | D 91 | B 91 |
| | D 107 | B 107 |
| | D 126 | B 126 |
| | D 151 | B 151 |

Info:
L1-Längen können variieren aufgrund der Schichtstärke der verschiedenen Körnungen der dazu notwendigen Rohlinge für den End-Durchmesser.

Info:
L1-linear measures can vary due to thickness of diamond of the several grains and necessary blanks for the end-diameter.

Info:
L1-longueurs peuvent varier à cause d'épaisseur du diamant des grains différents et les ébauches nécessaires pour le diamètre définitif.

1

a

Diamant-Bornitrid-Schleifstifte
***VHM**
Zylinderform

Cylindrical mould
Forme cylindrique

| Best.-Nr. | Kopf-Ø mm | D | Halslänge mm | Körnung | Halslänge mm | Körnung lieferbar bis |
|---------------------|-----------|-------------|--------------|---------------------|--------------|-----------------------|
| INFO → Körnung → L1 | | | | | | |
| B/D-S 100/4 | 0,4 | *VHM | L1 3 | bis Korn 54 | | |
| B/D-S 100/5 | 0,5 | *VHM | L1 5 | bis Korn 54 | L1 3 | ab 64 |
| B/D-S 100/6 | 0,6 | *VHM | L1 5 | bis Korn 91 | | |
| B/D-S 100/7 | 0,7 | *VHM | L1 6 | bis Korn 46 | L1 5 | ab 54 bis 91 |
| B/D-S 100/8 | 0,8 | *VHM | L1 10 | bis Korn 46 | L1 6 | ab 54 bis 91 |
| B/D-S 100/9 | 0,9 | *VHM | L1 10 | bis Korn 91 | | |
| B/D-S 101 | 1,0 | *VHM | L1 10 | bis Korn 126 | L1 6 | ab 151 bis 252 |
| B/D-S 101/1 | 1,1 | *VHM | L1 15 | bis Korn 54 | L1 10 | ab 64 bis 252 |
| B/D-S 101/2 | 1,2 | *VHM | L1 15 | bis Korn 91 | L1 10 | ab 107 bis 252 |
| B/D-S 101/3 | 1,3 | *VHM | L1 15 | bis Korn 126 | L1 10 | ab 151 bis 252 |
| B/D-S 101/4 | 1,4 | *VHM | L1 15 | bis Korn 181 | L1 10 | ab 252 |
| B/D-S 102 | 1,5 | *VHM | L1 15 | bei allen Körnungen | | |
| B/D-S 102/6 | 1,6 | *VHM | L1 15 | bei allen Körnungen | | |
| B/D-S 102/7 | 1,7 | *VHM | L1 15 | bei allen Körnungen | | |
| B/D-S 102/8 | 1,8 | *VHM | L1 15 | bei allen Körnungen | | |
| B/D-S 102/9 | 1,9 | *VHM | L1 15 | bei allen Körnungen | | |
| B/D-S 103 | 2,0 | *VHM | L1 15 | bei allen Körnungen | | |
| B/D-S 103/1 | 2,1 | *VHM | L1 16 | bis Korn 54 | L1 15 | ab 64 bis 252 |
| B/D-S 103/2 | 2,2 | *VHM | L1 16 | bis Korn 91 | L1 15 | ab 107 bis 252 |
| B/D-S 103/3 | 2,3 | *VHM | L1 16 | bis Korn 126 | L1 15 | ab 151 bis 252 |
| B/D-S 103/4 | 2,4 | *VHM | L1 16 | bis Korn 181 | L1 15 | ab 252 |
| B/D-S 104 | 2,5 | *VHM | L1 16 | bei allen Körnungen | | |
| B/D-S 104/6 | 2,6 | *VHM | L1 17 | bis Korn 54 | L1 16 | ab 64 bis 252 |
| B/D-S 104/7 | 2,7 | *VHM | L1 17 | bis Korn 91 | L1 16 | ab 107 bis 252 |
| B/D-S 104/8 | 2,8 | *VHM | L1 17 | bis Korn 126 | L1 16 | ab 151 bis 252 |
| B/D-S 104/9 | 2,9 | *VHM | L1 17 | bis Korn 181 | L1 16 | ab 252 |
| B/D-S 105 | 3,0 | *VHM | L1 17 | bei allen Körnungen | | |


***VHM** Voll-Hart-Metall
Solid hard metal
Métal dur massif

1

b


Zylinderform

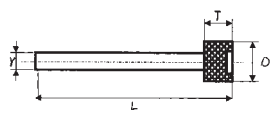
Cylindrical mould
Forme cylindrique



Bestell-Beispiel
D-S 106/D126
B-S 106/B126

S Stahl
Steel

| Best.-Nr. | Kopf-Ø mm | D | Belaglänge mm | T | Schaft-Ø mm | Y | Gesamtlänge mm | L |
|--|-----------|---|---------------|---|---------------------------|----|----------------|---------|
|  Schaft-Ø 3 mm | | | | | | | | |
| B/D-S 105/1 | 3,1 | | 5 | | Ø 3 mm S | | 40 | Körnung |
| B/D-S 105/2 | 3,2 | | 5 | | | 40 | | |
| B/D-S 105/3 | 3,3 | | 5 | | | 40 | | |
| B/D-S 105/4 | 3,4 | | 5 | | | 40 | | |
| B/D-S 106 | 3,5 | | 5 | | | 40 | | |
| B/D-S 106/6 | 3,6 | | 5 | | | 40 | | |
| B/D-S 106/7 | 3,7 | | 5 | | | 40 | | |
| B/D-S 106/8 | 3,8 | | 5 | | | 40 | | |
| B/D-S 106/9 | 3,9 | | 5 | | | 40 | | |
| B/D-S 107 | 4,0 | | 5 | | | 40 | | |
| B/D-S 108 | 4,5 | | 5 | | | 40 | | |
| B/D-S 109 | 5,0 | | 6 | | | 40 | | |
| B/D-S 110 | 6,0 | | 7 | | | 40 | | |



Diamant

D 30 D 46

D 54 D 64

D 76 D 91

D 107 D 126

D 151 D 181

D 252

Bornitrid

B 30 B 46

B 54 B 64

B 76 B 91

B 107 B 126

B 151 B 181

B 252



1C

Diamant- Bornitrid- Schleifstifte

Zylinderform

Cylindrical mould

Forme cylindrique




Bestell-Beispiel

D-S111/20/D 126

B-S111/20/B 126

***VHM** Voll-Hart-Metall
Solid hard metal
Métal dur massif


S Stahl
Steel

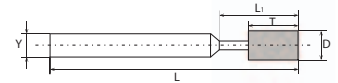
| Best.-Nr. | Kopf-Ø mm | D | Belaglänge mm | T | Schaft-Ø mm | Y | Halslänge mm | L ₁ | Gesamtlänge mm | L | Körnung |
|--|--------------|-------------|------------------|---|--------------------|-----------------------|-----------------|----------------|-------------------|----|--------------------------|
|  Schaft-Ø 6 mm | | | | | | | | | | | |
| B/D-S 111/20 | 2,0 | | 4 | | Ø 6 mm S | | 20 | | 60 | | Diamant Bornitrid |
| B/D-S 111/25 | 2,5 | | 4 | | | 20 | | 60 | | | |
| B/D-S 111/30 | 3,0 | | 5 | | | 20 | | 60 | | | |
| B/D-S 111/35 | 3,5 | | 5 | | | 20 | | 60 | | | |
| B/D-S 111/40 | 4,0 | | 7 | | | 20 | | 60 | | | |
| B/D-S 111/45 | 4,5 | | 7 | | | 20 | | 60 | | | |
| B/D-S 111/50 | 5,0 | | 7 | | | 20 | | 60 | | | |
| B/D-S 111/55 | 5,5 | | 7 | | | 20 | | 60 | | | |
| B/D-S 111 | 6,0 | | 7 | | | 20 | | 60 | | | |
| B/D-S 111/20 VH | 2,0 | *VHM | 4 | | | Ø 6 mm *VHM | | 20 | | 60 | |
| B/D-S 111/25 VH | 2,5 | *VHM | 4 | | 20 | | | 60 | | | |
| B/D-S 111/30 VH | 3,0 | *VHM | 5 | | 20 | | | 60 | | | |
| B/D-S 111/35 VH | 3,5 | *VHM | 5 | | 20 | | | 60 | | | |
| B/D-S 111/40 VH | 4,0 | *VHM | 7 | | 20 | | | 60 | | | |
| B/D-S 111/45 VH | 4,5 | *VHM | 7 | | 20 | | | 60 | | | |
| B/D-S 111/50 VH | 5,0 | *VHM | 7 | | 20 | | | 60 | | | |
| B/D-S 111/55 VH | 5,5 | *VHM | 7 | | 20 | | | 60 | | | |
| B/D-S 111 VH | 6,0 | *VHM | 7 | | 20 | | | 60 | | | |

1d

* Auf Wunsch
Belag 10 mm
Upon request
coating 10 mm
Sur demande
revêtement 10 mm

S Stahl
Steel

| Best.-Nr. | Kopf-Ø mm | D | Belaglänge mm | T | Schaft-Ø mm | Y | Halslänge mm | L ₁ | Gesamtlänge mm | L | Körnung |
|--|--------------|---|------------------|---|--------------------|---|-----------------|----------------|-------------------|---|--------------------------|
|  Schaft-Ø 6 mm | | | | | | | | | | | |
| B/D-S 112 | 7,0 | | 10 | | Ø 6 mm S | | | | 60 | | Diamant Bornitrid |
| B/D-S 113 | 8,0 | | 10 | | | | | 60 | | | |
| B/D-S 114 | 9,0 | | 10 | | | | | 60 | | | |
| B/D-S 115 | 10,0 | | 10 | | | | | 60 | | | |
| B/D-S 116 | 12,0 | | 15/10 * | | | | | 60 | | | |
| B/D-S 117 | 15,0 | | 15/10 * | | | | | 60 | | | |



1e

Formschleifstifte

shaped abrasive pencils





meulettes fe forme



Bestell-Beispiel

D-S126/D 126
B-S126/B 126

S Stahl
Steel

| Best.-Nr. | Kopf-Ø mm | D | Belaglänge mm | T | Schaft-Ø mm | Y | Halslänge mm | L ₁ | Gesamtlänge mm | L | Körnung | | | | | | |
|---|--------------|---|------------------|-----|----------------|----------|-----------------|----------------|-------------------|---|---------|-----------|-------|-------|-------|-------|------|
| Schaft-Ø 3 mm | | | | | | | | | | | | | | | | | |
|  | | | D-S 126 | 40° | | | | | | | Diamant | | | | | | |
|  | | | D-S 127 | | | | | | | | | Borritrid | | | | | |
|  | | | D-S 128 | | | | | | | | | | | | | | |
|  | | | D-S 129 | 12° | | | | | | | | | | | | | |
| B/D-S 126 | 6,0 | | 10,0 | | Ø 3 mm | S | | | 40 | | D 151 | | | | | | |
| B/D-S 127 | 6,0 | | 1,5 | | | | | | 40 | | | D 126 | | | | | |
| B/D-S 128 | 6,0 | | 1,0 | | | | | | 40 | | | | B 151 | | | | |
| B/D-S 129 | 0,1-3,0 | | 14,0 | | | | | | 40 | | | | | B 126 | | | |
| B/D-S 130 | 6,0-3,0 | | 6,0 | | | | | | 40 | | | | | | D 107 | | |
| B/D-S 131 | 3,5-6,0 | | 10,0 | | | | | | 40 | | | | | | | B 107 | |
| B/D-S 132 | 6,0-2,5 | | 2,5 | | | | | | 40 | | | | | | | | D 91 |
| | | | | | | | | | | | | | | | | | |

2a



Diamant-Borritrid-Schleifstifte

Zylinderform

Cylindrical mould

Forme cylindrique

S Stahl
Steel


| Best.-Nr. | Kopf-Ø mm | D | Belaglänge mm | T | Schaft-Ø mm | Y | Halslänge mm | L ₁ | Gesamtlänge mm | L | Körnung | | | | | | |
|---|--------------|---|------------------|---|----------------|----------|-----------------|----------------|-------------------|---|---------|------|------|----|------|------|------|
| Schaft-Ø 2,35 mm | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | Diamant | | | | | | |
| B/D-S 203 | 2,0 | | 5,0 | | Ø 2,35 mm | S | 13 | | 40 | | | D 91 | | | | | |
| Schaft-Ø 2,35 mm | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | B 91 | | | | |
| B/D-S 205 | 3,0 | | 5,0 | | | | Ø 2,35 mm | S | | | | | | 40 | | D 76 | |
| B/D-S 207 | 4,0 | | 6,0 | | | | | | | | | | | 40 | | | B 76 |
| B/D-S 209 | 5,0 | | 6,0 | | | | | | | | | | | 40 | | | |
| B/D-S 210 | 6,0 | | 6,0 | | | | | | | | 40 | | | | B 64 | | |
| B/D-S 213 | 8,0 | | 8,0 | | | | | | 40 | | D 54 | | | | | | |
| B/D-S 215 | 10,0 | | 10,0 | | | | | | 40 | | | B 54 | | | | | |

Kugelform

Spherical mould

Forme sphérique

S Stahl
Steel



| Best.-Nr. | Kopf-Ø mm | D | Belaglänge mm | T | Schaft-Ø mm | Y | Halslänge mm | L ₁ | Gesamtlänge mm | L | Körnung | | | | |
|--|--------------|---|------------------|---|----------------|----------|-----------------|----------------|-------------------|----|---------|------|------|-------|------|
| Schaft-Ø 2,35 mm | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | Diamant | | | | |
| B/D-S 218 | 2,0 | | | | Ø 2,35 mm | S | 10 | | 40 | | | D 46 | | | |
| B/D-S 219 | 3,0 | | | | | | | | 10 | 40 | | | | D 252 | |
| B/D-S 220 | 4,0 | | | | | | | | 10 | 40 | | | | | B 46 |
| B/D-S 221 | 5,0 | | | | | | | | 10 | 40 | | | | | |
| | | | | | | | | | | | | | D 30 | | |

Formschleifstifte

shaped abrasive pencils

meulettes fe forme

S Stahl
Steel

| Best.-Nr. | Kopf-Ø mm | D | Belaglänge mm | T | Schaft-Ø mm | Y | Halslänge mm | L ₁ | Gesamtlänge mm | L | Körnung |
|---|--------------|---|------------------|---|----------------|----------|-----------------|----------------|-------------------|---|---------|
| Schaft-Ø 2,35 mm | | | | | | | | | | | |
|  | | | | | | | | | | | Diamant |
| B/D-S 228 | 6,0 | | 1,0 | | Ø 2,35 mm | S | | | 40 | | |
| Schaft-Ø 2,35 mm | | | | | | | | | | | |
|  | | | | | | | | | | | Diamant |
| B/D-S 229 | 0,1-3,0 | | 12 | | Ø 2,35 mm | S | | | 40 | | |



3a

Diamant- Bornitrid- Schleifstifte

Zylinderform


Cylindrical mould

Forme cylindrique



Bestell-Beispiel

D-S 800/D 126
B-S 800/B 126

| Best.-Nr. | Kopf-Ø | | Belaglänge | | Schaft-Ø | | Halslänge | | Gesamtlänge | | Körnung mm |
|--|--------|------|------------|---|----------|------|-----------|----------------|-------------|---|---------------|
| | mm | D | mm | T | mm | Y | mm | L ₁ | mm | L | |
|  | | | | | | | | | | | |
| B/D-S 800 | 0,8 | | 4 | | 3 | S | 9 | | 55 | | Diamant |
| B/D-S 801 | 1,0 | | 4 | | 3 | S | 9 | | 55 | | |
| B/D-S 802 | 1,3 | | 4 | | 3 | S | 13 | | 55 | | |
| B/D-S 803 | 1,5 | | 4 | | 3 | S | 13 | | 55 | | |
| B/D-S 804 | 1,8 | | 4 | | 3 | S | 13 | | 55 | | |
| B/D-S 805 | 2,0 | | 4 | | 3 | S | 16 | | 55 | | |
| B/D-S 806 | 2,5 | | 4 | | 3 | S | 16 | | 55 | | |
| B/D-S 807 | 3,0 | | 5 | | 3 | S | 20 | | 55 | | |
| B/D-S 800 VH | 0,8 | *VHM | 4 | | 3 | *VHM | 9 | | 55 | | |
| B/D-S 801 VH | 1,0 | *VHM | 4 | | 3 | *VHM | 9 | | 55 | | |
| B/D-S 802 VH | 1,3 | *VHM | 4 | | 3 | *VHM | 13 | | 55 | | |
| B/D-S 803 VH | 1,5 | *VHM | 4 | | 3 | *VHM | 13 | | 55 | | |
| B/D-S 804 VH | 1,8 | *VHM | 4 | | 3 | *VHM | 13 | | 55 | | |
| B/D-S 805 VH | 2,0 | *VHM | 4 | | 3 | *VHM | 16 | | 55 | | |
| B/D-S 806 VH | 2,5 | *VHM | 4 | | 3 | *VHM | 16 | | 55 | | |
| B/D-S 807 VH | 3,0 | *VHM | 5 | | 3 | *VHM | 20 | | 55 | | |
| B/D-S 808 | 3,5 | | 5 | | 3 | S | - | | 55 | | |
| B/D-S 809 | 4,0 | | 5 | | 3 | S | - | | 55 | | |
| B/D-S 810 | 4,5 | | 5 | | 3 | S | - | | 55 | | |
| B/D-S 811 | 5,0 | | 5 | | 3 | S | - | | 55 | | |
| B/D-S 812 | 5,0 | | 7 | | 6 | S | 25 | | 75 | | |
| B/D-S 813 | 6,0 | | 7 | | 6 | S | 30 | | 75 | | |
| B/D-S 814 | 7,0 | | 8 | | 6 | S | - | | 75 | | |
| B/D-S 815 | 8,0 | | 8 | | 6 | S | - | | 75 | | |
| B/D-S 816 | 10,0 | | 10 | | 6 | S | - | | 90 | | |
| B/D-S 817 | 12,0 | | 10 | | 10 | S | - | | 90 | | |
| B/D-S 819 | 15,0 | | 10 | | 10 | S | - | | 90 | | |
| B/D-S 820 | 3,0 | | 4 | | 6 | S | 36 | | 90 | | |
| B/D-S 821 | 4,0 | | 5 | | 6 | S | 36 | | 90 | | |
| B/D-S 822 | 5,0 | | 6 | | 6 | S | 36 | | 90 | | |
| B/D-S 823 | 6,0 | | 7 | | 6 | S | 45 | | 90 | | |
| B/D-S 824 | 8,0 | | 8 | | 6 | S | - | | 90 | | |
| B/D-S 825 | 8,6 | | 8 | | 8 | S | - | | 110 | | |
| B/D-S 826 | 10,0 | | 10 | | 8 | S | - | | 110 | | |
| B/D-S 827 | 10,6 | | 10 | | 10 | S | - | | 110 | | |
| B/D-S 828 | 12,0 | | 10 | | 10 | S | - | | 110 | | |
| B/D-S 829 | 15,0 | | 10 | | 10 | S | - | | 110 | | |

***VHM** Voll-Hart-Metall
Solid hard metal
Métal dur massif

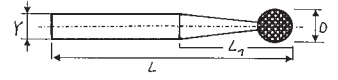
S Stahl
Steel



Rotierende
Präzisionswerkzeuge



ZOLL Tarifnummer 82075060



4a

Diamant-
Bornitrid-
Schleifstife

Kugelform

Spherical mould

Forme sphérique



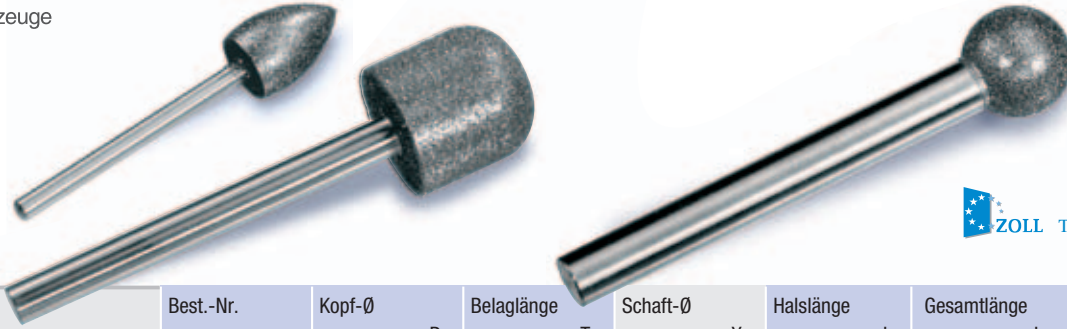
Bestell-Beispiel

D-S 118/D 126
B-S 118/B 126

S Stahl
Steel

ANDERE Ø AUF ANFRAGE

| Best.-Nr. | Kopf-Ø mm | D | Belaglänge mm | | Schaft-Ø mm | | Halslänge mm | | Gesamtlänge mm | | Körnung | |
|--------------|--------------|---|------------------|---|----------------|------|-----------------|----------------|-------------------|---|---------|-----------|
| | | | mm | T | mm | Y | mm | L ₁ | mm | L | Diamant | Bornitrid |
| | | | | | | | | | | | | |
| B/D-S 118/05 | 0,5 | | | | | | 10 | | 40 | | Max D30 | Max B30 |
| B/D-S 118/06 | 0,6 | | | | | | 10 | | 40 | | Max D64 | Max B64 |
| B/D-S 118/07 | 0,7 | | | | | | 10 | | 40 | | Max D91 | Max B91 |
| B/D-S 118/08 | 0,8 | | | | | | 10 | | 40 | | Max D91 | Max B91 |
| B/D-S 118/09 | 0,9 | | | | | | 10 | | 40 | | Max D91 | Max B91 |
| B/D-S 118/10 | 1,0 | | | | | | 10 | | 40 | | | |
| B/D-S 118/11 | 1,1 | | | | | | 10 | | 40 | | D 181 | B 181 |
| B/D-S 118/12 | 1,2 | | | | | | 10 | | 40 | | | |
| B/D-S 118/13 | 1,3 | | | | | | 10 | | 40 | | | |
| B/D-S 118/14 | 1,4 | | | | | | 10 | | 40 | | D 151 | B 151 |
| B/D-S 118/15 | 1,5 | | | | | | 10 | | 40 | | | |
| B/D-S 118/16 | 1,6 | | | | | | 10 | | 40 | | D 126 | B 126 |
| B/D-S 118/17 | 1,7 | | | | | | 10 | | 40 | | | |
| B/D-S 118/18 | 1,8 | | | | | | 10 | | 40 | | | |
| B/D-S 118/19 | 1,9 | | | | | | 10 | | 40 | | D 107 | B 107 |
| B/D-S 118 | 2,0 | | | | | | 10 | | 40 | | | |
| B/D-S 119/25 | 2,5 | | | | | | 10 | | 40 | | D 91 | B 91 |
| B/D-S 119 | 3 | | | | | | 10 | | 40 | | | |
| B/D-S 120 | 4 | | | | | | 10 | | 40 | | | |
| B/D-S 121 | 5 | | | | | | 13 | | 40 | | D 76 | B 76 |
| B/D-S 122 | 6 | | | | | | 13 | | 40 | | | |
| B/D-S 123/50 | 5 | | | | | | 20 | | 60 | | D 64 | B 64 |
| B/D-S 123/60 | 6 | | | | | | 20 | | 60 | | | |
| B/D-S 123 | 8 | | | | | | 20 | | 60 | | D 54 | B 54 |
| B/D-S 124 | 10 | | | | | | 20 | | 60 | | | |
| B/D-S 125 | 12 | | | | | | | | 60 | | | |
| B/D-S 125/14 | 14 | | | | | | | | 80 | | D 46 | B 46 |
| B/D-S 125/15 | 15 | | | | | | | | 80 | | | |
| B/D-S 125/16 | 16 | | | | | | | | 80 | | | |
| B/D-S 125/18 | 18 | | | | | | | | 80 | | D 30 | B 30 |
| B/D-S 125/20 | 20 | | | | | | | | 80 | | D 252 | B 252 |
| B/D-S 125/22 | 22 | | | | | Ø 8 | | | 80 | | | |
| B/D-S 125/25 | 25 | | | | | mm | | | 80 | | | |
| B/D-S 125/30 | 30 | | | | | Ø 10 | | | 80 | | | |



4b


Kugelform

***VHM**

Spherical mould

Forme sphérique

***VHM** Voll-Hart-Metall
Solid hard metal
Métal dur massif

| Best.-Nr. | Kopf-Ø | | Belaglänge | | Schaft-Ø | | Halslänge | | Gesamtlänge | | Körnung | |
|---|--------|-------------|------------|---|-----------------------|---|-----------|----------------|-------------|-----|---------------------------|-----------------------------|
| | mm | D | mm | T | mm | Y | mm | L ₁ | mm | L | | |
|  | | | | | | | | | | | Diamant D 252 D 181 | Bornitrid B 252 B 181 |
| Schaft-Ø 3 mm | | | | | | | | | | | | |
| B/D-S 140 VH | 4 | *VHM | | | Ø 3 mm *VHM | | | | | 77 | | |
| B/D-S 145 VH | 5 | *VHM | | | | | | | | 77 | | |
| B/D-S 150 VH | 6 | *VHM | | | | | | | | 77 | | |
| B/D-S 155 VH | 7 | *VHM | | | | | | | | 77 | | |
| B/D-S 160 VH | 8 | *VHM | | | | | | | | 77 | | |
| B/D-S 165 VH | 4 | *VHM | | | | | | | | 102 | | |
| B/D-S 170 VH | 5 | *VHM | | | | | | | | 102 | | |
| B/D-S 175 VH | 6 | *VHM | | | | | | | | 102 | | |
| B/D-S 180 VH | 7 | *VHM | | | | | | | | 102 | | |
| B/D-S 185 VH | 8 | *VHM | | | | | | | | 102 | | |

5a

Diamant- Bornitrid- Schleifstifte

Halbkugelfrom

Spherical form
Half ball

Forme sphérique
Demi-boule

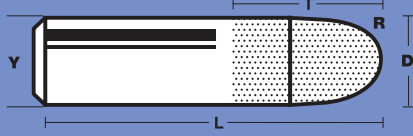


Bestell-Beispiel

D-S 910/D 126

B-S 910/B 126

S Stahl
Steel

| Best.-Nr. | Kopf-Ø | | Belaglänge | | Schaft-Ø | | Radius | Gesamtlänge | | | |
|---|--------|---|------------|---|--------------------|--------------------|--------|-------------|------------------------------------|--------------------------------------|----|
| | mm | D | mm | T | mm | Y | | | | | |
|  | | | | | | | | | Diamant D 151 D 126 D 107 | Bornitrid B 151 B 126 B 107 | |
| Halbkugel | | | | | | | | | | | |
| B/D-S 910 | 3 | | 15 | | Ø 3 mm S | | 1,5 | 40 | | | |
| B/D-S 912 | 4 | | 10 | | | | 2,0 | 40 | | | |
| B/D-S 914 | 5 | | 10 | | | | 2,5 | 40 | | | |
| B/D-S 916 | 6 | | 10 | | | | 3,0 | 40 | | | |
| B/D-S 918 | 8 | | 10 | | | | 4,0 | 40 | | | |
| B/D-S 920 | 10 | | 10 | | | | 5,0 | 40 | | | |
| B/D-S 922 | 6 | | 20 | | | Ø 6 mm S | 3,0 | 60 | | | |
| B/D-S 924 | 8 | | 15 | | | | | 4,0 | | | 60 |
| B/D-S 926 | 10 | | 15 | | | | | 5,0 | | | 60 |
| B/D-S 928 | 12 | | 15 | | | | | 6,0 | | | 60 |
| B/D-S 930 | 14 | | 15 | | | | | 7,0 | 60 | | |
| B/D-S 932 | 16 | | 15 | | | | | 8,0 | 60 | | |
| B/D-S 934 | 18 | | 15 | | | 9,0 | 60 | | | | |
| B/D-S 936 | 20 | | 15 | | | 10,0 | 60 | | | | |

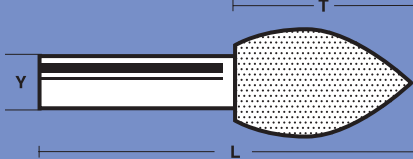
5b

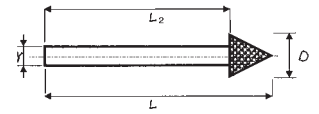
Flamme

Flame

Flamme

S Stahl
Steel

| Best.-Nr. | Kopf-Ø | | Belaglänge | | Schaft-Ø | | Radius | Gesamtlänge | | |
|---|--------|---|------------|---|--------------------|---|--------|-------------|-----------------|-------------------|
| | mm | D | mm | T | mm | Y | | | | |
|  | | | | | | | | | Diamant D 30 | Bornitrid B 30 |
| Flamme Schaft-Ø 3 mm | | | | | | | | | | |
| B/D-S 980 | 4 | | 8 | | Ø 3 mm S | | | 40 | | |
| B/D-S 982 | 5 | | 10 | | | | | 40 | | |
| B/D-S 984 | 6 | | 10 | | | | | 40 | | |
| B/D-S 986 | 7 | | 12 | | | | | 40 | | |
| B/D-S 988 | 8 | | 13 | | | | | 40 | | |
| B/D-S 990 | 10 | | 15 | | | | | 40 | | |



6a

Kegel- Schleifstifte

Taper abrasive pins

Goupilles abrasives
coniques



Bestell-Beispiel


D-S 700/60°/D 126

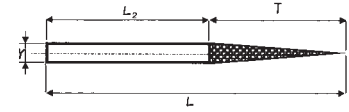
B-S 700/60°/B 126

S Stahl
Steel

* Auf Wunsch
lieferbar in 8/10 mm
Upon request
available in 8/10 mm
Sur demande
disponible en 8/10 mm

**Auf Wunsch in 10 mm

| Best.-Nr. | Kopf-Ø mm | D | Schaft-Ø mm | Y | Gesamtwinkel Grad° | α | Schaftlänge mm | L ₂ | Gesamtlänge mm | L | Körnung | | |
|--|--------------|---|----------------|----------|--|----|--|----------------|-------------------|----|---------|-----------|---------|
|  | | | | | | | | | | | | | |
| B/D-S 700 | 3 | | 3 | S | Andere Ø und Gesamtwinkel auf Anfrage Other total angles upon request Sur demande autres angles totaux | | | | 40 | | Diamant | | |
| B/D-S 705 | 4 | | 3 | S | | | | 40 | | | D 252 | Bornitrid | |
| B/D-S 710 | 5 | | 3 | S | | | | 40 | | | D 181 | B 181 | |
| B/D-S 715 | 6 | | 3 | S | | | | 40 | | | D 151 | B 151 | |
| B/D-S 720 | 6 | | 6 | S | | | 120° | | | 60 | | D 126 | B 126 |
| B/D-S 725 | 8 | | 6 | S | | | 90° | | 60 | | | D 107 | B 107 |
| B/D-S 730 | 10 | | 6 | S | | | 60° | | 60 | | | D 91 | B 91 |
| B/D-S 735 | 12 | | 6 | S | | | 45° | | 60 | | | D 76 | B 76 |
| B/D-S 740 | 14 | | 6 | S | | | | | 60 | | | D 64 | B 64 |
| B/D-S 742 | 15 | | 6 | S | | | | | 60 | | | D 54 | B 54 |
| B/D-S 745 | 16 | | 6 | S | | | | | 60 | | | D 46 | B 46 |
| B/D-S 750 | 18 | | 6 | S | | | | | 60 | | | D 30 | B 30 |
| B/D-S 755 | 20 | | 6 * | S | | | Alle Ø lieferbar in Ø lieferbar in 60° 90° 120° | | | | | | Diamant |
| B/D-S 760 | 25 | | 6 * | S | | 60 | | | | | | Bornitrid | |
| B/D-S 765 | 30 | | 6 * | S | | 60 | | | | | | | |
| B/D-S 770 | 35 | | 8 ** | S | | 60 | | | | | | | |
| B/D-S 775 | 40 | | 8 ** | S | | 60 | | | | | | | |



7
a

**Diamant-
Bornitrid-
Schleifstifte**

**Konus-
Schleifstifte**

Diamond /
Boron nitride -
abrasive pencils

Meulettes diamant/
niture de bore

Cone abrasive pencils

Meulettes coniques
sur tige



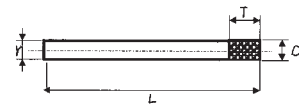
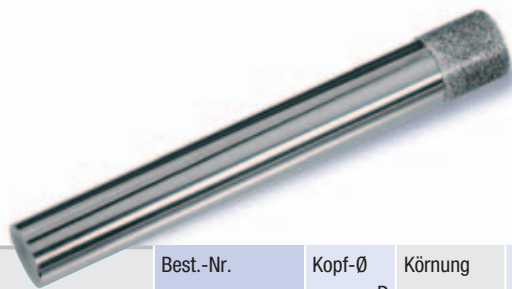
Bestell-Beispiel

D-S 60/5/D 126

B-S 60/5/B 126

| Best.-Nr. | Schaft-Ø mm | Y | Gradzahl/ Ges.-Winkel | Schaftlänge mm | L ₂ | Belaglänge mm | T | Gesamtlänge mm | L | Körnung mm |
|-------------|----------------|---|--------------------------|-------------------|----------------|------------------|---|-------------------|---|---------------|
| B/D-S 60/5 | Ø 6 mm | S | 5° | 60 | | 68 | | 128 | | Diamant |
| B/D-S 60/6 | | | 6° | 60 | | 55 | | 115 | | D 252 |
| B/D-S 60/8 | | | 8° | 60 | | 40 | | 100 | | D 181 |
| B/D-S 60/10 | | | 10° | 60 | | 34 | | 94 | | D 151 |
| B/D-S 60/12 | | | 12° | 60 | | 26 | | 86 | | D 126 |
| B/D-S 60/14 | | | 14° | 60 | | 24 | | 84 | | B 126 |
| B/D-S 60/16 | | | 16° | 60 | | 21 | | 81 | | B 107 |
| B/D-S 60/18 | | | 18° | 60 | | 19 | | 79 | | B 107 |
| B/D-S 60/20 | | | 20° | 60 | | 17 | | 77 | | B 107 |
| | | | | | | | | | | |
| | | | | | | | | | | Bornitrid |

S Stahl
Steel



8a

Vollhartmetall- Schleifstifte

***VHM**

Diamant-Bornitrid
für Koordinaten-
schleifen

Diamond-boron nitride
for jig grinding

Diamant-nitride
de bore pour taille
en coordonnées



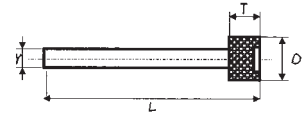
Bestell-Beispiel

D-S 301/D 126

B-S 301/B 126

***VHM** Voll-Hart-Metall
Solid hard metal
Métal dur massif

| Best.-Nr. | Kopf-Ø mm | D | Körnung | Kopf-Ø mm | D | Körnung | Kopf-Ø mm | D | Körnung | Belaglänge mm | T | Schaft-Ø mm | Y | Gesamtlänge mm | L |
|-----------|--------------|---|---------|--------------|---|---------|--------------|---|---------|------------------|---|----------------|---|-------------------|---|
| B/D-S 301 | 2,2 | D | D 76 | 2,3 | D | D 107 | 2,4 | D | D 151 | 3,0 | T | 2,0 | Y | 50 | |
| B/D-S 302 | | | D 91 | | | D 126 | | | D 181 | | | | | 75 | |
| B/D-S 303 | | | B 91 | | | B 126 | | | B 181 | | | | | 100 | |
| | | | B 76 | | | B 107 | | | B 151 | | | | | | |
| B/D-S 304 | 3,2 | D | D 76 | 3,3 | D | D 107 | 3,4 | D | D 151 | 4,0 | T | 3,0 | Y | 50 | |
| B/D-S 305 | | | D 91 | | | D 126 | | | D 181 | | | | | 75 | |
| B/D-S 306 | | | B 91 | | | B 126 | | | B 181 | | | | | 100 | |
| | | | B 76 | | | B 107 | | | B 151 | | | | | | |
| B/D-S 307 | 4,2 | D | D 76 | 4,3 | D | D 107 | 4,4 | D | D 151 | 5,0 | T | 4,0 | Y | 50 | |
| B/D-S 308 | | | D 91 | | | D 126 | | | D 181 | | | | | 75 | |
| B/D-S 309 | | | B 91 | | | B 126 | | | B 181 | | | | | 100 | |
| | | | B 76 | | | B 107 | | | B 151 | | | | | | |
| B/D-S 310 | 5,2 | D | D 76 | 5,3 | D | D 107 | 5,4 | D | D 151 | 5,0 | T | 5,0 | Y | 50 | |
| B/D-S 311 | | | D 91 | | | D 126 | | | D 181 | | | | | 75 | |
| B/D-S 312 | | | B 91 | | | B 126 | | | B 181 | | | | | 100 | |
| | | | B 76 | | | B 107 | | | B 151 | | | | | | |
| B/D-S 313 | 6,2 | D | D 76 | 6,3 | D | D 107 | 6,4 | D | D 151 | 7,0 | T | 6,0 | Y | 50 | |
| B/D-S 314 | | | D 91 | | | D 126 | | | D 181 | | | | | 75 | |
| B/D-S 315 | | | B 91 | | | B 126 | | | B 181 | | | | | 100 | |
| | | | B 76 | | | B 107 | | | B 151 | | | | | | |
| B/D-S 316 | 7,2 | D | D 76 | 7,3 | D | D 107 | 7,4 | D | D 151 | 7,0 | T | 7,0 | Y | 50 | |
| B/D-S 317 | | | D 91 | | | D 126 | | | D 181 | | | | | 75 | |
| B/D-S 318 | | | B 91 | | | B 126 | | | B 181 | | | | | 100 | |
| | | | B 76 | | | B 107 | | | B 151 | | | | | | |
| B/D-S 319 | 8,2 | D | D 76 | 8,3 | D | D 107 | 8,4 | D | D 151 | 10,0 | T | 8,0 | Y | 50 | |
| B/D-S 320 | | | D 91 | | | D 126 | | | D 181 | | | | | 75 | |
| B/D-S 321 | | | B 91 | | | B 126 | | | B 181 | | | | | 100 | |
| | | | B 76 | | | B 107 | | | B 151 | | | | | | |
| B/D-S 322 | 9,2 | D | D 76 | 9,3 | D | D 107 | 9,4 | D | D 151 | 10,0 | T | 9,0 | Y | 50 | |
| B/D-S 323 | | | D 91 | | | D 126 | | | D 181 | | | | | 75 | |
| B/D-S 324 | | | B 91 | | | B 126 | | | B 181 | | | | | 100 | |
| B/D-S 325 | | | B 76 | | | B 107 | | | B 151 | | | | | 130 | |
| B/D-S 326 | 10,2 | D | D 76 | 10,3 | D | D 107 | 10,4 | D | D 151 | 10,0 | T | 10,0 | Y | 50 | |
| B/D-S 327 | | | D 91 | | | D 126 | | | D 181 | | | | | 75 | |
| B/D-S 328 | | | B 91 | | | B 126 | | | B 181 | | | | | 100 | |
| B/D-S 329 | | | B 76 | | | B 107 | | | B 151 | | | | | 130 | |
| B/D-S 330 | 12,2 | D | D 76 | 12,3 | D | D 107 | 12,4 | D | D 151 | 10,0 | T | 12,0 | Y | 50 | |
| B/D-S 331 | | | D 91 | | | D 126 | | | D 181 | | | | | 75 | |
| B/D-S 332 | | | B 91 | | | B 126 | | | B 181 | | | | | 100 | |
| B/D-S 333 | | | B 76 | | | B 107 | | | B 151 | | | | | 130 | |
| B/D-S 334 | 15,2 | D | D 76 | 15,3 | D | D 107 | 15,4 | D | D 151 | 15,0 | T | 15,0 | Y | 50 | |
| B/D-S 335 | | | D 91 | | | D 126 | | | D 181 | | | | | 75 | |
| B/D-S 336 | | | B 91 | | | B 126 | | | B 181 | | | | | 100 | |
| B/D-S 337 | | | B 76 | | | B 107 | | | B 151 | | | | | 130 | |



9a

Vollhartmetall- Schleifstifte

***VHM**

Diamant-Bornitrid
für Koordinaten-
schleifen

Diamond-boron ni-
tride for jig
grinding

Diamant-nitruere
de bore pour taille
en coordonnées

**

D: Stirnseite belegt
ohne Aussparung

GB: Front sice
without recess

F: Face avant est
sans logement



Bestell-Beispiel

D-S 350/D 126

B-S 350/B 126

***VHM** Voll-Hart-Metall
Solid hard metal
Métal dur massif

| Best.-Nr. | Kopf-Ø mm | D | Belaglänge mm | T | Schaft-Ø mm | Y | Gesamtlänge mm | L | Körnung |
|-----------|--------------|---|------------------|---|----------------|------|-------------------|---|-----------|
| B/D-S 350 | 5 ** | | 5 | | 3 | *VHM | 75 | | Diamant |
| B/D-S 351 | | | 5 | | 3 | *VHM | 100 | | |
| B/D-S 352 | 6 ** | | 5 | | 3 | *VHM | 80 | | D 252 |
| B/D-S 353 | | | 5 | | 3 | *VHM | 100 | | |
| B/D-S 354 | 8 | | 8 | | 3 | *VHM | 80 | | D 181 |
| B/D-S 355 | | | 8 | | 3 | *VHM | 100 | | |
| B/D-S 356 | 7 | | 8 | | 6 | *VHM | 75 | | D 151 |
| B/D-S 357 | | | 8 | | 6 | *VHM | 100 | | |
| B/D-S 358 | 8 | | 8 | | 6 | *VHM | 75 | | D 151 |
| B/D-S 359 | | | 8 | | 6 | *VHM | 100 | | |
| B/D-S 360 | 10 | | 10 | | 6 | *VHM | 110 | | D 126 |
| B/D-S 361 | | | 10 | | 8 | *VHM | 110 | | |
| B/D-S 362 | | | 10 | | 9,52 | *VHM | 110 | | D 107 |
| B/D-S 363 | | | 10 | | 6 | *VHM | 110 | | |
| B/D-S 364 | 12 | | 10 | | 8 | *VHM | 110 | | D 91 |
| B/D-S 365 | | | 10 | | 9,52 | *VHM | 110 | | |
| B/D-S 366 | | | 10 | | 10 | *VHM | 110 | | D 76 |
| B/D-S 367 | | | 10 | | 6 | *VHM | 110 | | |
| B/D-S 368 | 14 | | 10 | | 8 | *VHM | 110 | | D 64 |
| B/D-S 369 | | | 10 | | 9,52 | *VHM | 110 | | |
| B/D-S 370 | | | 10 | | 10 | *VHM | 110 | | D 54 |
| B/D-S 371 | | | 10 | | 6 | *VHM | 110 | | |
| B/D-S 372 | 15 | | 10 | | 8 | *VHM | 110 | | D 46 |
| B/D-S 373 | | | 10 | | 9,52 | *VHM | 110 | | |
| B/D-S 374 | | | 10 | | 10 | *VHM | 110 | | D 30 |
| B/D-S 375 | | | 10 | | 6 | *VHM | 110 | | |
| B/D-S 376 | 16 | | 10 | | 8 | *VHM | 110 | | Diamant |
| B/D-S 377 | | | 10 | | 9,52 | *VHM | 110 | | |
| B/D-S 378 | | | 10 | | 10 | *VHM | 110 | | Bornitrid |
| B/D-S 379 | | | 10 | | 6 | *VHM | 110 | | |
| B/D-S 380 | 18 | | 10 | | 8 | *VHM | 110 | | Bornitrid |
| B/D-S 381 | | | 10 | | 9,52 | *VHM | 110 | | |
| B/D-S 382 | | | 10 | | 10 | *VHM | 110 | | Bornitrid |
| B/D-S 383 | | | 10 | | 6 | *VHM | 110 | | |
| B/D-S 384 | 20 | | 10 | | 8 | *VHM | 110 | | Bornitrid |
| B/D-S 385 | | | 10 | | 9,52 | *VHM | 110 | | |
| B/D-S 386 | | | 10 | | 10 | *VHM | 110 | | Bornitrid |

9_b

Schleifstifte
mit zentraler
Innenkühlung

***VHM**

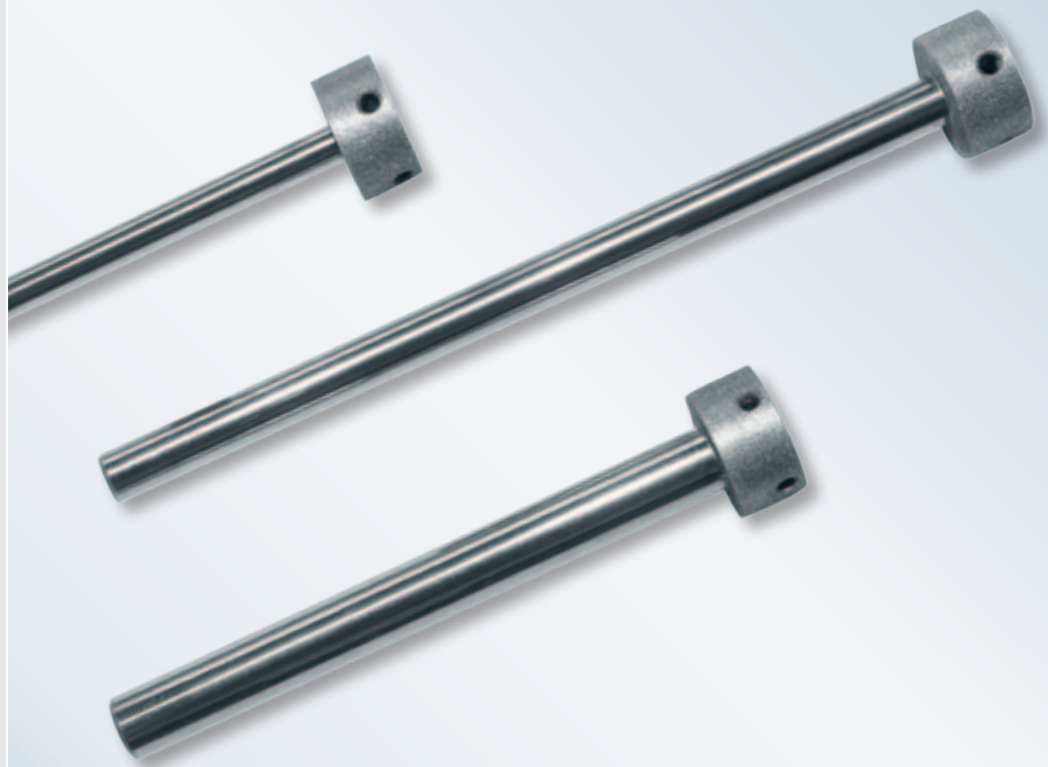
Galvanisch gebundener
Diamant/CBN-Bornitrid
VHM h6 Schleifstift mit
zentraler Innenkühlung

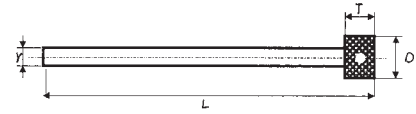
Besonders gut geeignet
bei gehärteten, langen
Durchgangsbohrungen
oder Sacklochbohrungen
für hervorragende Schleif-
ergebnisse des Werk-
stückes. Besatz kosten-
günstig wiederbelegbar!

Eine Zentralbohrung
im Schaft und drei Auslass-
bohrungen (120°) am Um-
fang des Schleifkopfes,
sorgen für direkte Kühlung
und Abtransport des Schleif-
segments beim Schleif-
prozess.

Tx704

NEU





9_b

Tx 704

***VHM**

Galvanisch
gebundener
Diamant/CBN-
Bornitrid VHM h6
Schleifstift mit
zentraler Innen-
kühlung

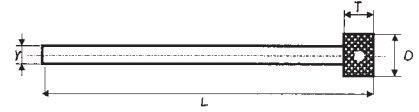


Bestell-Beispiel

TX 704/20/D 126
TX 704/20/B 126

| Best.-Nr. | Kopf-Ø mm | D | Belaglänge | | Schaft-Ø | | Gesamtlänge | | ZKÜ Ø mm | Körnung | |
|-----------|--------------|---|------------|---|----------|-------------|-------------|---|-------------|---------|-----------|
| | | | mm | T | mm | Y | mm | L | | | |
| TX 704/01 | 10 | | 10 | | 6 | *VHM | 110 | | 1,8 | Diamant | Bornitrid |
| TX 704/02 | 10 | | 10 | | 6 | *VHM | 150 | | 1,8 | | |
| TX 704/03 | 10 | | 10 | | 6 | *VHM | 200 | | 1,8 | | |
| TX 704/04 | 10 | | 10 | | 6 | *VHM | 250 | | 1,8 | | |
| TX 704/05 | 12 | | 10 | | 6 | *VHM | 110 | | 1,8 | | |
| TX 704/06 | 12 | | 10 | | 6 | *VHM | 150 | | 1,8 | | |
| TX 704/07 | 12 | | 10 | | 6 | *VHM | 200 | | 1,8 | | |
| TX 704/08 | 12 | | 10 | | 6 | *VHM | 250 | | 1,8 | | |
| TX 704/09 | 15 | | 15 | | 6 | *VHM | 110 | | 1,8 | | |
| TX 704/10 | 15 | | 15 | | 6 | *VHM | 150 | | 1,8 | | |
| TX 704/11 | 15 | | 15 | | 6 | *VHM | 200 | | 1,8 | | |
| TX 704/12 | 15 | | 15 | | 6 | *VHM | 250 | | 1,8 | | |
| TX 704/13 | 18 | | 15 | | 6 | *VHM | 110 | | 1,8 | | |
| TX 704/14 | 18 | | 15 | | 6 | *VHM | 150 | | 1,8 | | |
| TX 704/15 | 18 | | 15 | | 6 | *VHM | 200 | | 1,8 | | |
| TX 704/16 | 18 | | 15 | | 6 | *VHM | 250 | | 1,8 | | |
| TX 704/17 | 20 | | 15 | | 6 | *VHM | 110 | | 1,8 | | |
| TX 704/18 | 20 | | 15 | | 6 | *VHM | 150 | | 1,8 | | |
| TX 704/19 | 20 | | 15 | | 6 | *VHM | 200 | | 1,8 | | |
| TX 704/20 | 20 | | 15 | | 6 | *VHM | 250 | | 1,8 | | |
| TX 704/21 | 12 | | 10 | | 8 | *VHM | 110 | | 2,5 | | |
| TX 704/22 | 12 | | 10 | | 8 | *VHM | 150 | | 2,5 | | |
| TX 704/23 | 12 | | 10 | | 8 | *VHM | 200 | | 2,5 | | |
| TX 704/24 | 12 | | 10 | | 8 | *VHM | 250 | | 2,5 | | |
| TX 704/25 | 15 | | 15 | | 8 | *VHM | 110 | | 2,5 | | |
| TX 704/26 | 15 | | 15 | | 8 | *VHM | 150 | | 2,5 | | |
| TX 704/27 | 15 | | 15 | | 8 | *VHM | 200 | | 2,5 | | |
| TX 704/28 | 15 | | 15 | | 8 | *VHM | 250 | | 2,5 | | |
| TX 704/29 | 18 | | 15 | | 8 | *VHM | 110 | | 2,5 | | |
| TX 704/30 | 18 | | 15 | | 8 | *VHM | 150 | | 2,5 | | |
| TX 704/31 | 18 | | 15 | | 8 | *VHM | 200 | | 2,5 | | |
| TX 704/32 | 18 | | 15 | | 8 | *VHM | 250 | | 2,5 | | |
| TX 704/33 | 20 | | 15 | | 8 | *VHM | 110 | | 2,5 | | |
| TX 704/34 | 20 | | 15 | | 8 | *VHM | 150 | | 2,5 | | |
| TX 704/35 | 20 | | 15 | | 8 | *VHM | 200 | | 2,5 | | |
| TX 704/36 | 20 | | 15 | | 8 | *VHM | 250 | | 2,5 | | |
| TX 704/37 | 25 | | 15 | | 8 | *VHM | 110 | | 2,5 | | |

***VHM** Voll-Hart-Metall
Solid hard metal
Métal dur massif



9_b

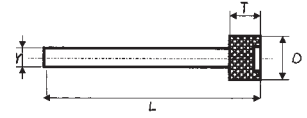
Tx 704

*VHM

Galvanisch
gebundener
Diamant/CBN-
Bornitrid VHM h6
Schleifstift mit
zentraler Innen-
kühlung

| Best.-Nr. | Kopf-Ø | | Belaglänge | | Schaft-Ø | | Gesamtlänge | | ZKÜ Ø mm | Körnung | |
|-----------|--------|---|------------|---|----------|------|-------------|---|-------------|---------|-----------|
| | mm | D | mm | T | mm | Y | mm | L | | Diamant | Bornitrid |
| TX 704/38 | 25 | | 15 | | 8 | *VHM | 150 | | 2,5 | Diamant | Bornitrid |
| TX 704/39 | 25 | | 15 | | 8 | *VHM | 200 | | 2,5 | Diamant | Bornitrid |
| TX 704/40 | 25 | | 15 | | 8 | *VHM | 250 | | 2,5 | Diamant | Bornitrid |
| TX 704/41 | 15 | | 15 | | 10 | *VHM | 110 | | 3,0 | D 252 | B 252 |
| TX 704/42 | 15 | | 15 | | 10 | *VHM | 150 | | 3,0 | D 252 | B 252 |
| TX 704/43 | 15 | | 15 | | 10 | *VHM | 200 | | 3,0 | D 181 | B 181 |
| TX 704/44 | 15 | | 15 | | 10 | *VHM | 250 | | 3,0 | D 181 | B 181 |
| TX 704/45 | 18 | | 15 | | 10 | *VHM | 110 | | 3,0 | D 151 | B 151 |
| TX 704/46 | 18 | | 15 | | 10 | *VHM | 150 | | 3,0 | D 151 | B 151 |
| TX 704/47 | 18 | | 15 | | 10 | *VHM | 200 | | 3,0 | D 151 | B 151 |
| TX 704/48 | 18 | | 15 | | 10 | *VHM | 250 | | 3,0 | D 151 | B 151 |
| TX 704/49 | 20 | | 15 | | 10 | *VHM | 110 | | 3,0 | D 126 | B 126 |
| TX 704/50 | 20 | | 15 | | 10 | *VHM | 150 | | 3,0 | D 126 | B 126 |
| TX 704/51 | 20 | | 15 | | 10 | *VHM | 200 | | 3,0 | D 107 | B 107 |
| TX 704/52 | 20 | | 15 | | 10 | *VHM | 250 | | 3,0 | D 107 | B 107 |
| TX 704/53 | 25 | | 15 | | 10 | *VHM | 110 | | 3,0 | D 91 | B 91 |
| TX 704/54 | 25 | | 15 | | 10 | *VHM | 150 | | 3,0 | D 91 | B 91 |
| TX 704/55 | 25 | | 15 | | 10 | *VHM | 200 | | 3,0 | D 91 | B 91 |
| TX 704/56 | 25 | | 15 | | 10 | *VHM | 250 | | 3,0 | D 91 | B 91 |
| TX 704/57 | 30 | | 20 | | 10 | *VHM | 110 | | 3,0 | D 76 | B 76 |
| TX 704/58 | 30 | | 20 | | 10 | *VHM | 150 | | 3,0 | D 76 | B 76 |
| TX 704/59 | 30 | | 20 | | 10 | *VHM | 200 | | 3,0 | D 64 | B 64 |
| TX 704/60 | 30 | | 20 | | 10 | *VHM | 250 | | 3,0 | D 64 | B 64 |
| | | | | | | | | | | D 54 | B 54 |
| | | | | | | | | | | D 46 | B 46 |
| | | | | | | | | | | D 30 | B 30 |
| | | | | | | | | | | Diamant | Bornitrid |

*VHM Voll-Hart-Metall
Solid hard metal
Métal dur massif



10_a

Diamant- Bornitrid- Schleifstifte

Zylinderform

Cylindrical mould

Forme cylindrique

**

D: Stirnseite belegt
ohne Aussparung

GB: Front sice
without recess

F: Face avant est
sans logement



Bestell-Beispiel

D-S 401/D 126

B-S 401/B 126

| Best.-Nr. | Kopf-Ø mm | Schaft-Ø D mm | Gesamtlänge Y mm | Belaglänge L mm | Körnung T mm |
|-----------|--------------|---------------------|------------------------|-----------------------|--------------------|
| B/D-S 401 | 4,5 ** | 4,0 | 50 | 5 | Diamant |
| B/D-S 402 | | | 75 | | |
| B/D-S 403 | 5,0 ** | 4,0 | 50 | 5 | D 252 |
| B/D-S 404 | | | 75 | | |
| B/D-S 405 | 5,5 ** | 4,0 | 50 | 5 | D 181 |
| B/D-S 406 | | | 60 | | |
| B/D-S 407 | | 5,0 | 50 | | |
| B/D-S 408 | | | 70 | | |
| B/D-S 409 | | | 80 | | |
| B/D-S 410 | 6,0 ** | 4,0 | 50 | 6 | D 151 |
| B/D-S 411 | | | 60 | | |
| B/D-S 412 | | 5,0 | 50 | | |
| B/D-S 413 | | | 70 | | |
| B/D-S 414 | 6,5 ** | 5,0 | 80 | 6 | D 107 |
| B/D-S 415 | | | 50 | | |
| B/D-S 416 | | | 70 | | |
| B/D-S 417 | | 6,0 | 80 | | |
| B/D-S 418 | | | 70 | | |
| B/D-S 419 | 7,0 | 6,0 | 80 | 10,0 | D 91 |
| B/D-S 420 | | | 100 | | |
| B/D-S 421 | | | 70 | | |
| B/D-S 422 | 7,5 | 6,0 | 80 | 10,0 | D 76 |
| B/D-S 423 | | | 100 | | |
| B/D-S 424 | 8,0 | 6,0 | 70 | 10,0 | D 64 |
| B/D-S 425 | | | 80 | | |
| B/D-S 426 | | | 100 | | |
| B/D-S 427 | | | 70 | | |
| B/D-S 428 | 8,5 | 6,0 | 80 | 10,0 | D 54 |
| B/D-S 429 | | | 100 | | |
| B/D-S 430 | | | 70 | | |
| B/D-S 431 | 9,0 | 6,0 | 80 | 10,0 | D 46 |
| B/D-S 432 | | | 100 | | |
| B/D-S 433 | | 8,0 | 70 | | |
| B/D-S 434 | | | 80 | | |
| B/D-S 435 | | | 100 | | |
| B/D-S 436 | 9,0 | 6,0 | 70 | 10,0 | Diamant |
| B/D-S 437 | | | 80 | | |
| B/D-S 438 | | 8,0 | 100 | | |
| B/D-S 439 | | | 70 | | |
| B/D-S 440 | 9,0 | 8,0 | 80 | 10,0 | Bornitrid |
| B/D-S 441 | | | 100 | | |

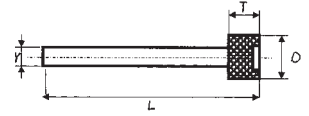
S Stahl
Steel



Rotierende
Präzisionswerkzeuge



ZOLL Tarifnummer 82075060



10_a

Diamant-
Bornitrid-
Schleifstifte

Zylinderform

Cylindrical mould

Forme cylindrique



Bestell-Beispiel

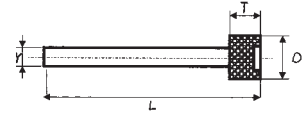
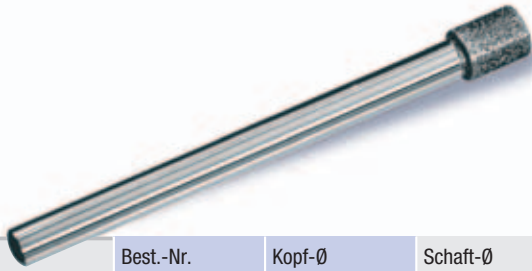
D-S 442/D 126

B-S 442/B 126

| Best.-Nr. | Kopf-Ø | | Schaft-Ø | | Gesamtlänge | Belaglänge | | Körnung | |
|-----------|--------|------|----------|----|-------------|------------|-------|-----------|-----------|
| | mm | D | mm | Y | | mm | T | | |
| B/D-S 442 | 9,5 | 6,0 | S | 70 | 100 | 10,0 | 10,0 | Diamant | |
| B/D-S 443 | | | | | | | | | Bornitrid |
| B/D-S 444 | | | | | | | | | |
| B/D-S 445 | | | | | | | | | |
| B/D-S 446 | | | | | | | | | |
| B/D-S 447 | | | | | | | | | |
| B/D-S 448 | 10,0 | 6,0 | S | 70 | 100 | 10,0 | D 181 | | |
| B/D-S 449 | | | | | | | | Bornitrid | |
| B/D-S 450 | | | | | | | | | |
| B/D-S 451 | | | | | | | | | |
| B/D-S 452 | | | | | | | | | |
| B/D-S 453 | | | | | | | | | |
| B/D-S 454 | 10,5 | 6,0 | S | 70 | 100 | 15,0 | D 151 | | |
| B/D-S 455 | | | | | | | | Bornitrid | |
| B/D-S 456 | | | | | | | | | |
| B/D-S 457 | | | | | | | | | |
| B/D-S 458 | | | | | | | | | |
| B/D-S 459 | | | | | | | | | |
| B/D-S 460 | 11,0 | 6,0 | S | 70 | 100 | 15,0 | D 126 | | |
| B/D-S 461 | | | | | | | | Bornitrid | |
| B/D-S 462 | | | | | | | | | |
| B/D-S 463 | | | | | | | | | |
| B/D-S 464 | | | | | | | | | |
| B/D-S 465 | | | | | | | | | |
| B/D-S 466 | 11,0 | 8,0 | S | 70 | 100 | 15,0 | D 107 | | |
| B/D-S 467 | | | | | | | | Bornitrid | |
| B/D-S 468 | | | | | | | | | |
| B/D-S 469 | | | | | | | | | |
| B/D-S 470 | | | | | | | | | |
| B/D-S 471 | | | | | | | | | |
| B/D-S 472 | 11,5 | 10,0 | S | 70 | 100 | 15,0 | D 91 | | |
| B/D-S 473 | | | | | | | | Bornitrid | |
| B/D-S 474 | | | | | | | | | |
| B/D-S 475 | | | | | | | | | |
| B/D-S 476 | | | | | | | | | |
| B/D-S 477 | | | | | | | | | |
| B/D-S 478 | 12,0 | 6,0 | S | 70 | 100 | 15,0 | D 76 | | |
| B/D-S 479 | | | | | | | | Bornitrid | |
| B/D-S 480 | | | | | | | | | |
| B/D-S 481 | | | | | | | | | |
| B/D-S 482 | | | | | | | | | |
| B/D-S 483 | | | | | | | | | |
| B/D-S 484 | 12,0 | 8,0 | S | 70 | 100 | 15,0 | D 64 | | |
| B/D-S 485 | | | | | | | | Bornitrid | |
| B/D-S 486 | | | | | | | | | |
| B/D-S 487 | | | | | | | | | |
| B/D-S 488 | | | | | | | | | |
| B/D-S 489 | | | | | | | | | |

Auf Wunsch Belaglänge 10 mm
Upon request coating length 10 mm
Sur demande longueur de revêtement 10 mm

S Stahl
Steel



10_a

Diamant-
Bornitrid-
Schleifstifte

Zylinderform

Cylindrical mould

Forme cylindrique



Bestell-Beispiel

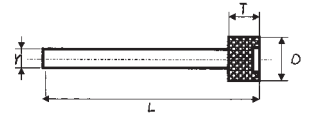
D-S 490/D 126

B-S 490/B 126

| Best.-Nr. | Kopf-Ø mm | D | Schaft-Ø mm | Y | Gesamtlänge mm | L | Belaglänge mm | T | Körnung mm | |
|-----------|--------------|------|----------------|------|-------------------|------|------------------|------|---------------|---------|
| B/D-S 490 | 12,5 | 12,5 | 6,0 | S | 70 | 15,0 | 15,0 | 15,0 | Diamant | |
| B/D-S 491 | | | | | 80 | | | | | |
| B/D-S 492 | | | | | 100 | | | | | |
| B/D-S 493 | | | 70 | 8,0 | S | | | | | 70 |
| B/D-S 494 | | | 80 | | | | | | | |
| B/D-S 495 | | | 100 | | | | | | | |
| B/D-S 496 | | | 80 | 10,0 | S | | | | | 80 |
| B/D-S 497 | | | 100 | | | | | | | |
| B/D-S 498 | | | 120 | | | | | | | |
| B/D-S 499 | | | 13,0 | 13,0 | 6,0 | | | | | S |
| B/D-S 500 | 80 | | | | | | | | | |
| B/D-S 501 | 100 | | | | | | | | | |
| B/D-S 502 | 70 | 8,0 | | | S | 70 | | | | |
| B/D-S 503 | 80 | | | | | | | | | |
| B/D-S 504 | 100 | | | | | | | | | |
| B/D-S 505 | 80 | 10,0 | | | S | 80 | | | | |
| B/D-S 506 | 100 | | | | | | | | | |
| B/D-S 507 | 120 | | | | | | | | | |
| B/D-S 508 | 13,5 | 13,5 | | | 6,0 | S | 70 | 15,0 | 15,0 | Diamant |
| B/D-S 509 | | | 80 | | | | | | | |
| B/D-S 510 | | | 100 | | | | | | | |
| B/D-S 511 | | | 70 | 8,0 | S | 70 | | | | |
| B/D-S 512 | | | 80 | | | | | | | |
| B/D-S 513 | | | 100 | | | | | | | |
| B/D-S 514 | | | 80 | 10,0 | S | 80 | | | | |
| B/D-S 515 | | | 100 | | | | | | | |
| B/D-S 516 | | | 120 | | | | | | | |
| B/D-S 517 | | | 14,0 | 14,0 | 6,0 | S | 70 | | | |
| B/D-S 518 | 80 | | | | | | | | | |
| B/D-S 519 | 100 | | | | | | | | | |
| B/D-S 520 | 70 | 8,0 | | | S | 70 | | | | |
| B/D-S 521 | 80 | | | | | | | | | |
| B/D-S 522 | 100 | | | | | | | | | |
| B/D-S 523 | 80 | 10,0 | | | S | 80 | | | | |
| B/D-S 524 | 100 | | | | | | | | | |
| B/D-S 525 | 120 | | | | | | | | | |
| B/D-S 526 | 14,5 | 14,5 | | | 6,0 | S | 70 | 15,0 | 15,0 | Diamant |
| B/D-S 527 | | | 80 | | | | | | | |
| B/D-S 528 | | | 100 | | | | | | | |
| B/D-S 529 | | | 70 | 8,0 | S | 70 | | | | |
| B/D-S 530 | | | 80 | | | | | | | |
| B/D-S 531 | | | 100 | | | | | | | |
| B/D-S 532 | | | 80 | 10,0 | S | 80 | | | | |
| B/D-S 533 | | | 100 | | | | | | | |
| B/D-S 534 | | | 120 | | | | | | | |

Auf Wunsch Belaglänge 10 mm
Upon request coating length 10 mm
Sur demande longueur de revêtement 10 mm

S Stahl
Steel



10^a

Diamant-
Bornitrid-
Schleifstifte

Zylinderform

Cylindrical mould

Forme cylindrique



Bestell-Beispiel

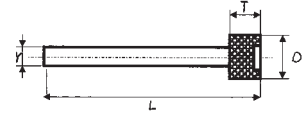
D-S 535/D 126

B-S 535/B 126

| Best.-Nr. | Kopf-Ø | | Schaft-Ø | | Gesamtlänge | L | Belaglänge | | Körnung | | | | | | | |
|-----------|--------|------|----------|-----|-------------|------|------------|------|---------|-----------|------|------|------|---------|-----------|-----------|
| | mm | D | mm | Y | | | mm | T | | | | | | | | |
| B/D-S 535 | 15,0 | 6,0 | S | 70 | 15,0 | 15,0 | 15,0 | 15,0 | Diamant | Bornitrid | | | | | | |
| B/D-S 536 | | | | | | | | | | | 80 | | | | | |
| B/D-S 537 | | | | | | | | | | | 100 | | | | | |
| B/D-S 538 | | 70 | | | | | | | | | | | | | | |
| B/D-S 539 | | 8,0 | S | 80 | | | | | | | | | | | | |
| B/D-S 540 | | | | | | | | | | | 100 | | | | | |
| B/D-S 541 | | | | | | | | | | | 80 | | | | | |
| B/D-S 542 | | 10,0 | S | 100 | | | | | | | | | | | | |
| B/D-S 543 | | | | | | | | | | | 120 | | | | | |
| B/D-S 544 | | | | | | | | | | | 70 | | | | | |
| B/D-S 545 | | 15,5 | 6,0 | S | | | | | | | 80 | 15,0 | 15,0 | 15,0 | Diamant | Bornitrid |
| B/D-S 546 | | | | | | | | | | | | | | | | |
| B/D-S 547 | 70 | | | | | | | | | | | | | | | |
| B/D-S 548 | 8,0 | | S | 80 | | | | | | | | | | | | |
| B/D-S 549 | | | | | 100 | | | | | | | | | | | |
| B/D-S 550 | | | | | 80 | | | | | | | | | | | |
| B/D-S 551 | 10,0 | | S | 100 | | | | | | | | | | | | |
| B/D-S 552 | | | | | 120 | | | | | | | | | | | |
| B/D-S 553 | | | | | 70 | | | | | | | | | | | |
| B/D-S 554 | 16,0 | | 6,0 | S | 80 | 15,0 | 15,0 | 15,0 | Diamant | Bornitrid | | | | | | |
| B/D-S 555 | | | | | | | | | | | 100 | | | | | |
| B/D-S 556 | | | | | | | | | | | 70 | | | | | |
| B/D-S 557 | | 8,0 | S | 80 | | | | | | | | | | | | |
| B/D-S 558 | | | | | 100 | | | | | | | | | | | |
| B/D-S 559 | | | | | 80 | | | | | | | | | | | |
| B/D-S 560 | | 10,0 | S | 100 | | | | | | | | | | | | |
| B/D-S 561 | | | | | 120 | | | | | | | | | | | |
| B/D-S 562 | | | | | 70 | | | | | | | | | | | |
| B/D-S 563 | | 16,5 | 6,0 | S | 80 | | | | | | 15,0 | 15,0 | 15,0 | Diamant | Bornitrid | |
| B/D-S 564 | | | | | | | | | | | | | | | | 100 |
| B/D-S 565 | | | | | | | | | | | | | | | | 70 |
| B/D-S 566 | 8,0 | | S | 80 | | | | | | | | | | | | |
| B/D-S 567 | | | | | 100 | | | | | | | | | | | |
| B/D-S 568 | | | | | 80 | | | | | | | | | | | |
| B/D-S 569 | 10,0 | | S | 100 | | | | | | | | | | | | |
| B/D-S 570 | | | | | 120 | | | | | | | | | | | |
| B/D-S 571 | | | | | 70 | | | | | | | | | | | |
| B/D-S 572 | 17,0 | | 6,0 | S | 80 | 15,0 | 15,0 | 15,0 | Diamant | Bornitrid | | | | | | |
| B/D-S 573 | | | | | | | | | | | | | | | | 100 |
| B/D-S 574 | | | | | | | | | | | | | | | | 70 |
| B/D-S 575 | | 8,0 | S | 80 | | | | | | | | | | | | |
| B/D-S 576 | | | | | 100 | | | | | | | | | | | |
| B/D-S 577 | | | | | 80 | | | | | | | | | | | |
| B/D-S 578 | | 10,0 | S | 100 | | | | | | | | | | | | |
| B/D-S 579 | | | | | 120 | | | | | | | | | | | |

Auf Wunsch Belaglänge 10 mm
Upon request coating length 10 mm
Sur demande longueur de revêtement 10 mm

S Stahl
Steel



10_a

Diamant-
Bornitrid-
Schleifstifte

Zylinderform

Cylindrical mould

Forme cylindrique



Bestell-Beispiel

D-S 580/D 126
B-S 580/B 126

| Best.-Nr. | Kopf-Ø mm | D | Schaft-Ø mm | Y | Gesamtlänge mm | L | Belaglänge mm | T | Körnung mm | |
|-----------|--------------|---|----------------|----------|-------------------|------|------------------|---------|---------------|-----------|
| B/D-S 580 | 17,5 | | 6,0 | S | 70 | 15,0 | 15,0 | | Diamant | |
| B/D-S 581 | | | | | 80 | | | | | Bornitrid |
| B/D-S 582 | | | | | 100 | | | | | |
| B/D-S 583 | | | | | 70 | | | | | |
| B/D-S 584 | | | | | 80 | | | | | |
| B/D-S 585 | | | | | 100 | | | | | |
| B/D-S 586 | | | | | 80 | | | | | |
| B/D-S 587 | | | | | 100 | | | | | |
| B/D-S 588 | | | | | 120 | | | | | |
| B/D-S 589 | | | | | 18,0 | | | | | |
| B/D-S 590 | 80 | | | | | | | | | |
| B/D-S 591 | 100 | | | | | | | | | |
| B/D-S 592 | 70 | | | | | | | | | |
| B/D-S 593 | 80 | | | | | | | | | |
| B/D-S 594 | 100 | | | | | | | | | |
| B/D-S 595 | 80 | | | | | | | | | |
| B/D-S 596 | 100 | | | | | | | | | |
| B/D-S 597 | 120 | | | | | | | | | |
| B/D-S 598 | 18,5 | | 8,0 | S | | 70 | 15,0 | 15,0 | D 91 | B 91 |
| B/D-S 599 | | | | | 80 | | | | | |
| B/D-S 600 | | | | | 100 | | | | | |
| B/D-S 601 | | | | | 80 | | | | | |
| B/D-S 602 | | | | | 100 | | | | | |
| B/D-S 603 | | | | | 120 | | | | | |
| B/D-S 604 | | | | | 70 | | | | | |
| B/D-S 605 | | | | | 80 | | | | | |
| B/D-S 606 | | | | | 100 | | | | | |
| B/D-S 607 | | | | | 80 | | | | | |
| B/D-S 608 | 100 | | | | | | | | | |
| B/D-S 609 | 120 | | | | | | | | | |
| B/D-S 610 | 19,0 | | 8,0 | S | 70 | 15,0 | 15,0 | D 46 | B 46 | |
| B/D-S 611 | | | | | 80 | | | | | |
| B/D-S 612 | | | | | 100 | | | | | |
| B/D-S 613 | | | | | 80 | | | | | |
| B/D-S 614 | | | | | 100 | | | | | |
| B/D-S 615 | | | | | 120 | | | | | |
| B/D-S 616 | | | | | 70 | | | | | |
| B/D-S 617 | | | | | 80 | | | | | |
| B/D-S 618 | | | | | 100 | | | | | |
| B/D-S 619 | | | | | 80 | | | | | |
| B/D-S 620 | 100 | | | | | | | | | |
| B/D-S 621 | 120 | | | | | | | | | |
| B/D-S 621 | 19,5 | | 10,0 | S | 70 | 15,0 | 15,0 | D 30 | B 30 | |
| B/D-S 612 | | | | | 80 | | | | | |
| B/D-S 613 | | | | | 100 | | | | | |
| B/D-S 614 | | | | | 80 | | | | | |
| B/D-S 615 | | | | | 100 | | | | | |
| B/D-S 616 | | | | | 120 | | | | | |
| B/D-S 617 | | | | | 70 | | | | | |
| B/D-S 618 | | | | | 80 | | | | | |
| B/D-S 619 | | | | | 100 | | | | | |
| B/D-S 620 | | | | | 80 | | | | | |
| B/D-S 621 | 100 | | | | | | | | | |
| B/D-S 621 | 20,0 | | 10,0 | S | 70 | 15,0 | 15,0 | Diamant | Bornitrid | |
| B/D-S 617 | | | | | 80 | | | | | |
| B/D-S 618 | | | | | 100 | | | | | |
| B/D-S 619 | | | | | 80 | | | | | |
| B/D-S 620 | | | | | 100 | | | | | |
| B/D-S 621 | | | | | 120 | | | | | |

Auf Wunsch Belaglänge 10 mm
Upon request coating length 10 mm
Sur demande longueur de revêtement 10 mm

S Stahl
Steel



11a

Heson Schleifwalzen mit seitlichem Belag

Diamond-boron nitride grinding disks with lateral coating

Meules diamantées au nitrure de bore avec revêtement latéral

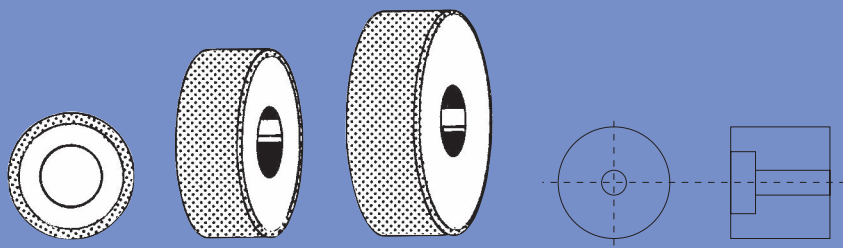


Bestell-Beispiel

R 110/D 126
R 110/B 126

Sondermaße auf Anfrage.
Special dimensions upon request
Dimensions spéciales sur demande

AUF ANFRAGE
BIS Ø 125MM MÖGLICH

| Best.-Nr. | Walzen-Ø mm | Stärke mm T | T ₂ | Bohrung Ø mm H H7 | Sonderbohrung | Körnungen |
|--|-------------|-------------|----------------|-------------------|--|--|
|  | | | | | | Diamant Bornitrid |
| R 110 | 10 | 10 | 1,0 | 6 | Aufpreis pro Seite/ bzw. Bohrung für Aussparungen/ Sonderbohrungen. | D 252 |
| R 115 | 10 | 15 | | 6 | | D 181 |
| R 120 | 12 | 10 | | 6 | | D 151 |
| R 122 | 12 | 15 | | 6 | | D 126 |
| R 125 | 12 | 20 | | 6 | | D 107 |
| R 130 | 15 | 10 | | 6 | | D 91 |
| R 132 | 15 | 15 | | 6 | | D 76 |
| R 134 | 15 | 20 | | 6 | | D 64 |
| R 136 | 18 | 10 | | 6 | | D 54 |
| R 137 | 18 | 15 | | 6 | | D 54 |
| R 138 | 18 | 20 | 1,5 | 6 | Extra charge per side/ respect. boring for sparings/ special borings. | D 46 |
| R 140 | 20 | 10 | | 6 | | D 30 |
| R 143 | 20 | 10 | | 8 | | D 30 |
| R 146 | 20 | 15 | | 8 | | D 30 |
| R 149 | 20 | 20 | | 8 | | D 30 |
| R 150 | 25 | 10 | | 8 | | D 30 |
| R 155 | 25 | 10 | | 13 | | D 30 |
| R 160 | 25 | 15 | | 8 | | D 30 |
| R 164 | 25 | 15 | | 13 | | D 30 |
| R 168 | 25 | 20 | | 13 | | D 30 |
| R 170 | 30 | 10 | 2,0 | 8 | Surcharge par côté/ respect. alésage pour des évidements/ alésages spéciaux. | D 30 |
| R 175 | 30 | 10 | | 13 | | D 30 |
| R 180 | 30 | 15 | | 8 | | D 30 |
| R 182 | 30 | 15 | | 13 | | D 30 |
| R 184 | 30 | 20 | | 13 | | D 30 |
| R 186 | 35 | 10 | | 20 | | D 30 |
| R 187 | 35 | 15 | | 20 | | D 30 |
| R 188 | 35 | 20 | | 20 | | D 30 |
| R 190 | 40 | 10 | | 10 | | D 30 |
| R 191 | 40 | 10 | | 20 | | D 30 |
| R 192 | 40 | 15 | 20 | D 30 | | |
| R 194 | 40 | 20 | 20 | D 30 | | |
| R 196 | 45 | 10 | 20 | D 30 | | |
| R 197 | 45 | 15 | 20 | D 30 | | |
| R 198 | 45 | 20 | 20 | D 30 | | |
| R 200 | 50 | 10 | 10 | D 30 | | |
| R 205 | 50 | 10 | 20 | D 30 | | |
| R 210 | 50 | 15 | 20 | D 30 | | |
| R 215 | 50 | 20 | 20 | D 30 | | |
| R 220 | 60 | 10 | 20 | D 30 | | |
| R 225 | 60 | 15 | 20 | D 30 | | |
| R 230 | 60 | 20 | 20 | D 30 | | |
| R 235 | 75 | 10 | 20 | D 30 | | |
| R 240 | 75 | 15 | 20 | D 30 | | |
| R 245 | 75 | 20 | 20 | D 30 | | |



12_a

Diamant- Bornitrid- Trennscheiben

Diamond-
boron nitride separa-
ting disks

Meules à tronçonner
diamantées au niture
de bore




Bestell-Beispiel

T 110/D 126
T 110/B 126

Andere Abmessungen
auf Anfrage.
Other dimensions upon
request

Autres Dimensions
sur demande

***VHM** Voll-Hart-Metall
Solid hard metal
Métal dur massif

| Best.-Nr. | Scheiben Ø mm | Stamm- blatt mm | Bohrung Ø mm | Schnittbreite | | Schnittbreite | | Schnittbreite | | Schnittbreite | | Schnittbreite | |
|--------------------------|------------------|---|--------------------|---------------|---------|---------------|---------|---------------|---------|---------------|---------|---------------|---------|
| | | | | mm | Körnung | mm | Körnung | mm | Körnung | mm | Körnung | mm | Körnung |
| umfangbeschichtet | | | | | | | | | | | | | |
| T 110 | 20 | 0,5 | 5,0 | 0,70 | 0,75 | 0,80 | 0,85 | 0,90 | 0,95 | | | | |
| T 120 | 20 | 1,0 | 5,0 | 1,20 | 1,25 | 1,30 | 1,35 | 1,40 | 1,45 | | | | |
| T 130 | 20 | 1,5 | 5,0 | 1,70 | 1,75 | 1,80 | 1,85 | 1,90 | 1,95 | | | | |
| T 140 | 20 | 2,0 | 5,0 | 2,20 | 2,25 | 2,30 | 2,35 | 2,40 | 2,45 | | | | |
| T 150 | 25 | 0,5 | 8,0 | 0,70 | 0,75 | 0,80 | 0,85 | 0,90 | 0,95 | | | | |
| T 160 | 25 | 1,0 | 8,0 | 1,20 | 1,25 | 1,30 | 1,35 | 1,40 | 1,45 | | | | |
| T 170 | 25 | 1,5 | 8,0 | 1,70 | 1,75 | 1,80 | 1,85 | 1,90 | 1,95 | | | | |
| T 180 | 25 | 2,0 | 8,0 | 2,20 | 2,25 | 2,30 | 2,35 | 2,40 | 2,45 | | | | |
| T 190 | 32 | 0,5 | 8,0 | 0,70 | 0,75 | 0,80 | 0,85 | 0,90 | 0,95 | | | | |
| T 200 | 32 | 1,0 | 8,0 | 1,20 | 1,25 | 1,30 | 1,35 | 1,40 | 1,45 | | | | |
| T 210 | 32 | 1,5 | 8,0 | 1,70 | 1,75 | 1,80 | 1,85 | 1,90 | 1,95 | | | | |
| T 220 | 32 | 2,0 | 8,0 | 2,20 | 2,25 | 2,30 | 2,35 | 2,40 | 2,45 | | | | |
| T 230 | 40 | 0,5 | 10,0 | 0,70 | 0,75 | 0,80 | 0,85 | 0,90 | 0,95 | | | | |
| T 240 | 40 | 1,0 | 10,0 | 1,20 | 1,25 | 1,30 | 1,35 | 1,40 | 1,45 | | | | |
| T 250 | 40 | 1,5 | 10,0 | 1,70 | 1,75 | 1,80 | 1,85 | 1,90 | 1,95 | | | | |
| T 260 | 40 | 2,0 | 10,0 | 2,20 | 2,25 | 2,30 | 2,35 | 2,40 | 2,45 | | | | |
| T 270 | 50 | 0,5 | 13,0 | 0,70 | 0,75 | 0,80 | 0,85 | 0,90 | 0,95 | | | | |
| T 280 | 50 | 1,0 | 13,0 | 1,20 | 1,25 | 1,30 | 1,35 | 1,40 | 1,45 | | | | |
| T 290 | 50 | 1,5 | 13,0 | 1,70 | 1,75 | 1,80 | 1,85 | 1,90 | 1,95 | | | | |
| T 300 | 50 | 2,0 | 13,0 | 2,20 | 2,25 | 2,30 | 2,35 | 2,40 | 2,45 | | | | |
| T 310 | 63 | 0,8 | 16,0 | 1,00 | 1,05 | 1,10 | 1,15 | 1,20 | 1,25 | | | | |
| T 320 | 63 | 1,5 | 16,0 | 1,70 | 1,75 | 1,80 | 1,85 | 1,90 | 1,95 | | | | |
| T 330 | 63 | 2,0 | 16,0 | 2,20 | 2,25 | 2,30 | 2,35 | 2,40 | 2,45 | | | | |
| T 340 | 100 | 1,0 | 16,0 | 1,20 | 1,25 | 1,30 | 1,35 | 1,40 | 1,45 | | | | |
| T 350 | 100 | 1,5 | 16,0 | 1,70 | 1,75 | 1,80 | 1,85 | 1,90 | 1,95 | | | | |
| T 360 | 125 | 1,0 | 22,0 | 1,20 | 1,25 | 1,30 | 1,35 | 1,40 | 1,45 | | | | |
| T 370 | 125 | 1,5 | 22,0 | 1,70 | 1,75 | 1,80 | 1,85 | 1,90 | 1,95 | | | | |
| | | Für/For | Schaft | GL | | | | | | | | | |
| T 399 | | Ø 20 - 32 | 3 x 55 | | | | | | | | | | |
| T 399-1 | | Ø 20 - 40 | 3 x 50 *VHM | | | | | | | | | | |
| T 399-2 | | Ø 40 - 50 | 6 x 100 | | | | | | | | | | |
| T 399-3 | | Ø 63 | 8 x 100 | | | | | | | | | | |
| T 399-4 | | Ø 100 - 125 | 10 x 100 | | | | | | | | | | |
| | | Schaftaufnahme für Trennscheiben | | | | | | | | | | | |
| | |  | | | | | | | | | | | |
| | | Abb. ähnlich | | | | | | | | | | | |



14_a

Topfscheibe Form 12A2 zum Stichschleifen

- Galvanische Belegung
in Diamant oder
Bornitrid

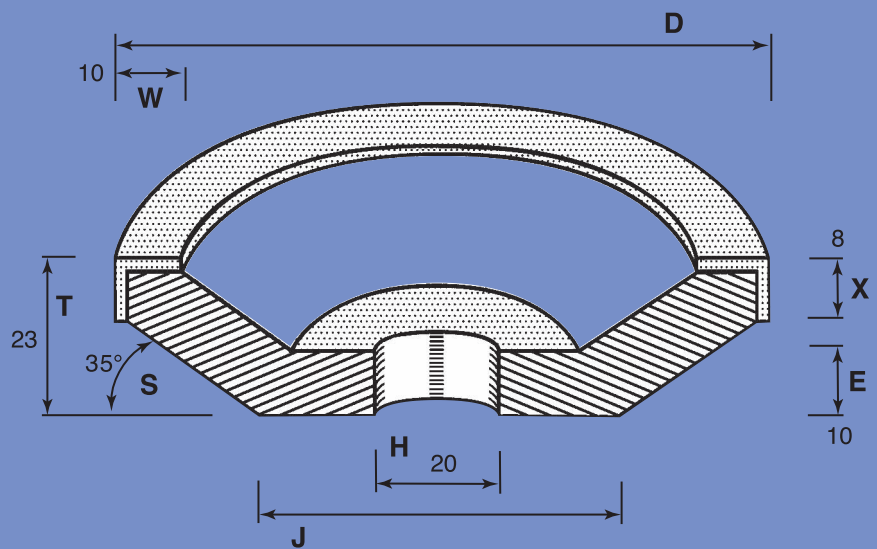
Cup wheel shape 12A2 for graving tool grinding

- Electroplating with
diamonds or boron nitride

Meule boisseau forme 12A2 pour une rectification ciselet

- Revêtement électrolytique
avec des diamants ou
nitride de bore

| Best.-Nr. | D Ø mm | T mm | H mm | E mm | J mm | X mm | W mm | S Grad |
|-----------|-----------|---------|---------|---------|---------|------------------|---------|-----------|
| T12A2 | 100 | 23 | 20 H8 | 15 | 56 | 8 inkl. Belag | 10 | 35° |
| T12A2/80 | 80 | 23 | 20 H8 | 15 | 43 | 8 inkl. Belag | 10 | 35° |



Bestell-Beispiel

T 1212/D 126

T 1212/B 126



Rotierende
Präzisionswerkzeuge

A large, three-dimensional, metallic-looking "heson" logo is centered on a dark blue gradient background. The letters are rendered with a brushed metal texture and cast shadows on the surface below them, giving a sense of depth and weight.



Rotierende
Präzisionswerkzeuge



Diamant-Bornitrid-Werkzeuge

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1964 - 2014



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Galvanisch gebundene Diamant-/Bornitrid- Werkzeuge

Electro-plated
diamond/CBN
tools

Outils
galvanisés de
diamants/CBN

