



Leading Through Innovation



**SOLID CARBIDE**

# DREAM DRILL X

- Multi-Purpose Solid Carbide Drilling up to HRc50
- Proprietary coating upgrade boosting performance in Steel and Cast-Iron applications
- Mehrzweck-Vollhartmetallbohrer bis HRc 50
- In-house Beschichtungsentwicklung zur Leistungssteigerung bei Stahl- und Gussanwendungen



CARBIDE

HSS

DREAM DRILL X

DTX404 SERIES

CARBIDE, DREAM DRILL X (3XD)

VOLLHARTMETALL DREAM SPIRALBOHRER X

Forets DREAM DRILLS X carbure, série extra-courte

PUNTE ELICOIDALI IN MD - DREAM DRILLS X

STUB

EXTRA KURZ

EXTRA-COURTE

EXTRA CORTA

► Upgraded coating for higher Tool Life in various materials

► Soft cutting action and reduced axial forces; Easy to Recondition

► Good self-centering even at low feed rates and unstable situations

► Excellent Chip breaking and chip evacuation

► Verbesserte Beschichtung für höhere Standzeit in verschiedenen Materialien

► Weicher Schnitt und reduzierte Axialkräfte; leicht nachzuschleifen

► Sehr gute Selbstzentrierung auch bei niedrigen Vorschubgeschwindigkeiten und labilen Verhältnissen

► Hervorragender Spanbruch und Spanabfuhr

DIN 6539

CARBIDE

30°

h6

h7

140°

RCH

Coating

p.A92

Unit : mm

3 × D

| EDP No.     | Drill Diameter | Flute Length | Overall Length |
|-------------|----------------|--------------|----------------|
| RCH-Coating | D1=D2          | L1           | L2             |
| DTX404030   | 3.0            | 16           | 46             |
| DTX404031   | 3.1            | 18           | 49             |
| DTX404032   | 3.2            | 18           | 49             |
| DTX404033   | 3.3            | 18           | 49             |
| DTX404034   | 3.4            | 20           | 52             |
| DTX404035   | 3.5            | 20           | 52             |
| DTX404036   | 3.6            | 20           | 52             |
| DTX404037   | 3.7            | 20           | 52             |
| DTX404038   | 3.8            | 22           | 55             |
| DTX404039   | 3.9            | 22           | 55             |
| DTX404040   | 4.0            | 22           | 55             |
| DTX404041   | 4.1            | 22           | 55             |
| DTX404042   | 4.2            | 22           | 55             |
| DTX404043   | 4.3            | 24           | 58             |
| DTX404044   | 4.4            | 24           | 58             |
| DTX404045   | 4.5            | 24           | 58             |
| DTX404046   | 4.6            | 24           | 58             |
| DTX404047   | 4.7            | 24           | 58             |
| DTX404048   | 4.8            | 26           | 62             |
| DTX404049   | 4.9            | 26           | 62             |
| DTX404050   | 5.0            | 26           | 62             |
| DTX404051   | 5.1            | 26           | 62             |
| DTX404052   | 5.2            | 26           | 62             |
| DTX404053   | 5.3            | 26           | 62             |
| DTX404054   | 5.4            | 28           | 66             |
| DTX404055   | 5.5            | 28           | 66             |
| DTX404056   | 5.6            | 28           | 66             |
| DTX404057   | 5.7            | 28           | 66             |

| EDP No.     | Drill Diameter | Flute Length | Overall Length |
|-------------|----------------|--------------|----------------|
| RCH-Coating | D1=D2          | L1           | L2             |
| DTX404058   | 5.8            | 28           | 66             |
| DTX404059   | 5.9            | 28           | 66             |
| DTX404060   | 6.0            | 28           | 66             |
| DTX404061   | 6.1            | 31           | 70             |
| DTX404062   | 6.2            | 31           | 70             |
| DTX404063   | 6.3            | 31           | 70             |
| DTX404064   | 6.4            | 31           | 70             |
| DTX404065   | 6.5            | 31           | 70             |
| DTX404066   | 6.6            | 31           | 70             |
| DTX404067   | 6.7            | 31           | 70             |
| DTX404068   | 6.8            | 34           | 74             |
| DTX404069   | 6.9            | 34           | 74             |
| DTX404070   | 7.0            | 34           | 74             |
| DTX404071   | 7.1            | 34           | 74             |
| DTX404072   | 7.2            | 34           | 74             |
| DTX404073   | 7.3            | 34           | 74             |
| DTX404074   | 7.4            | 34           | 74             |
| DTX404075   | 7.5            | 34           | 74             |
| DTX404076   | 7.6            | 37           | 79             |
| DTX404077   | 7.7            | 37           | 79             |
| DTX404078   | 7.8            | 37           | 79             |
| DTX404079   | 7.9            | 37           | 79             |
| DTX404080   | 8.0            | 37           | 79             |
| DTX404081   | 8.1            | 37           | 79             |
| DTX404082   | 8.2            | 37           | 79             |
| DTX404083   | 8.3            | 37           | 79             |
| DTX404084   | 8.4            | 37           | 79             |
| DTX404085   | 8.5            | 37           | 79             |

► Other shank types are available on your request.

► NEXT PAGE

ISO

Material Description

P

Non-alloy steel

Low alloy steel

High alloyed steel, and tool steel

M

Stainless steel

Grey cast iron

K

Nodular cast iron

Malleable cast iron

1

2

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VDI 3323

HRC

HB

Recommended

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N

Aluminum-wrought alloy

Aluminum-cast, alloyed

Copper and Copper Alloys (Bronze / Brass)

Non Metallic Materials

S

Heat Resistant Super Alloys

Titanium Alloys

H

Hardened steel

Chilled Cast Iron

Hardened Cast Iron

21

22

23

24

25

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31

32

33

34

35

36

37

38

39

40

41

VDI 3323

HRC

HB

Recommended

60

100

75

90

130

110

90

100

15

30

25

38

34

200

280

250

350

320

400 Rm

1050 Rm

55

60

42

55

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A78

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DIN 6539

CARBIDE

30°

h6

h7

140°

RCH

Coating

p.A92

Unit : mm

3 × D

| EDP No.     | Drill Diameter | Flute Length | Overall Length |
|-------------|----------------|--------------|----------------|
| RCH-Coating | D1=D2          | L1           | L2             |
| DTX404086   | 8.6            | 40           | 84             |
| DTX404087   | 8.7            | 40           | 84             |
| DTX404088   | 8.8            | 40           | 84             |
| DTX404089   | 8.9            | 40           | 84             |
| DTX404090   | 9.0            | 40           | 84             |
| DTX404091   | 9.1            | 40           | 84             |
| DTX404092   | 9.2            | 40           | 84             |
| DTX404093   | 9.3            | 40           | 84             |
| DTX404094   | 9.4            | 40           | 84             |
| DTX404095   | 9.5            | 40           | 84             |
| DTX404096   | 9.6            | 43           | 89             |
| DTX404097   | 9.7            | 43           | 89             |
| DTX404098   | 9.8            | 43           | 89             |
| DTX404099   | 9.9            | 43           | 89             |
| DTX404100   | 10.0           | 43           | 89             |
| DTX404102   | 10.2           | 43           | 89             |
| DTX404105   | 10.5           | 43           | 89             |
| DTX404110   | 11.0           | 47           | 95             |
| DTX404115   | 11.5           | 47           | 95             |
| DTX404120   | 12.0           | 51           | 102            |
| DTX404130   | 13.0           | 51           | 102            |
| DTX404135   | 13.5           | 54           | 107            |
| DTX404140   | 14.0           | 54           | 107            |
| DTX404145   | 14.5           | 56           | 111            |
| DTX404150   | 15.0           | 56           | 111            |
| DTX404155   | 15.5           | 58           | 115            |
| DTX404160   | 16.0           | 58           | 115            |
| DTX404165   | 16.5           | 60           | 119            |

| EDP No.     | Drill Diameter | Flute Length | Overall Length |
|-------------|----------------|--------------|----------------|
| RCH-Coating | D1=D2          | L1           | L2             |
| DTX404170   | 17.0           | 60           | 119            |
| DTX404175   | 17.5           | 62           | 123            |
| DTX404180   | 18.0           | 62           | 123            |
| DTX404185   | 18.5           | 64           | 127            |
| DTX404190   | 19.0           | 64           | 127            |
| DTX404195   | 19.5           | 66           | 131            |
| DTX404200   | 20.0           | 66           | 131            |

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► NEXT PAGE

ISO

Material Description

P

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VDI 3323

HRC

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Recommended

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N

Aluminum-wrought alloy

Aluminum-cast, alloyed

Copper and Copper Alloys (Bronze / Brass)

Non Metallic Materials

S

Heat Resistant Super Alloys

Titanium Alloys

H

Hardened steel

Chilled Cast Iron

Hardened Cast Iron

21

22

23

24

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VDI 3323

HRC

HB

Recommended

60

100

75

90

130

110

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100

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30

25

38

34

200

280

250

350

320

400 Rm

1050 Rm

55

60

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55

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A78

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DIN 6539

CARBIDE

30°

h6

h7

140°

RCH

Coating

p.A92

Unit : mm

3 × D

| EDP No.     | Drill Diameter | Flute Length | Overall Length |
|-------------|----------------|--------------|----------------|
| RCH-Coating | D1=D2          | L1           | L2             |
| DTX404086   | 8.6            | 40           | 84             |
| DTX404087   | 8.7            | 40           | 84             |
| DTX404088   | 8.8            | 40           | 84             |
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| DTX404095   | 9.5            | 40           | 84             |
| DTX404096   | 9.6            | 43           | 89             |
| DTX404097   | 9.7            | 43           | 89             |
| DTX404098   | 9.8            | 43           | 89             |
| DTX404099   | 9.9            | 43           | 89             |
| DTX404100   | 10.0           | 43           | 89             |
| DTX404102   | 10.2           | 43           | 89             |
| DTX404105   | 10.5           | 43           | 89             |
| DTX404110   | 11.0           | 47           | 95             |
| DTX404115   | 11.5           | 47           | 95             |
| DTX404120   | 12.0           | 51           | 102            |
| DTX404130   | 13.0           | 51           | 102            |
| DTX404135   | 13.5           | 54           | 107            |
| DTX404140   | 14.0           | 54           | 107            |
| DTX404145   | 14.5           | 56           | 111            |
| DTX404150   | 15.0           | 56           | 111            |
| DTX404155   | 15.5           | 58           | 115            |
| DTX404160   | 16.0           | 58           | 115            |
| DTX404165   | 16.5           | 60           | 119            |

| EDP No.     | Drill Diameter | Flute Length | Overall Length |
|-------------|----------------|--------------|----------------|
| RCH-Coating | D1=D2          | L1           | L2             |
| DTX404170   | 17.0           | 60           | 119            |
| DTX404175   | 17.5           | 62           | 123            |
| DTX404180   | 18.0           | 62           | 123            |
| DTX404185   | 18.5           | 64           | 127            |
| DTX404190   | 19.0           | 64           | 127            |
| DTX404195   | 19.5           | 66           | 131            |
| DTX404200   | 20.0           | 66           | 131            |

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ISO

Material Description

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VDI 3323

HRC

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Recommended

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Aluminum-wrought alloy

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Copper and Copper Alloys (Bronze / Brass)

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Heat Resistant Super Alloys

Titanium Alloys

H

Hardened steel

Chilled Cast Iron

Hardened Cast Iron

21

22

23

24

25

26

27

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31

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41

VDI 3323

HRC

HB

Recommended

60

100

75

90

130

110

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100

15

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25

38

34

200

280

250

350

320

400 Rm

1050 Rm

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DIN 6539

CARBIDE

30°

h6

h7

140°

RCH

Coating

p.A92

Unit : mm

3 × D

| EDP No.     | Drill Diameter | Flute Length | Overall Length |
|-------------|----------------|--------------|----------------|
| RCH-Coating | D1=D2          | L1           | L2             |
| DTX404086   | 8.6            | 40           | 84             |
| DTX404087   | 8.7            | 40           | 84             |
| DTX404088   | 8.8            | 40           | 84             |
| DTX404089   | 8.9            | 40           | 84             |
| DTX404090   | 9.0            | 40           | 84             |
| DTX404091   | 9.1            | 40           | 84             |
| DTX404092   | 9.2            | 40           | 84             |
| DTX404093   | 9.3            | 40           | 84             |
| DTX404094   | 9.4            | 40           | 84             |
| DTX404095   | 9.5            | 40           | 84             |
| DTX404096   | 9.6            | 43           | 89             |
| DTX404097   | 9.7            | 43           | 89             |
| DTX404098   | 9.8            | 43           | 89             |
| DTX404099   | 9.9            | 43           | 89             |
| DTX404100   | 10.0           | 43           | 89             |
| DTX404102   | 10.2           | 43           | 89             |
| DTX404105   | 10.5           | 43           | 89             |
| DTX404110   | 11.0           | 47           | 95             |
| DTX404115   | 11.5           | 47           | 95             |
| DTX404120   | 12.0           | 51           | 102            |
| DTX404130   | 13.0           | 51           | 102            |
| DTX404135   | 13.5           | 54           | 107            |
| DTX404140   | 14.0           | 54           | 107            |
| DTX404145   | 14.5           | 56           | 111            |
| DTX404150   | 15.0           | 56           | 111            |
| DTX404155   | 15.5           | 58           | 115            |
| DTX404160   | 16.0           | 58           | 115            |
| DTX404165   | 16.5           | 60           | 119            |

| EDP No.     | Drill Diameter | Flute Length | Overall Length |
|-------------|----------------|--------------|----------------|
| RCH-Coating | D1=D2          | L1           | L2             |
| DTX404170   | 17.0           | 60           | 119            |
| DTX404175   | 17.5           | 62           | 123</          |





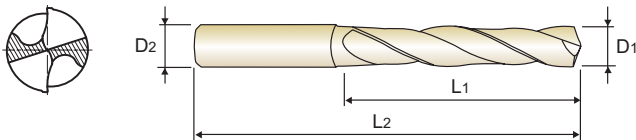
DTX423 SERIES

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- Hervorragender Spanbruch und Spanabfuhr



3 × D

Unit : mm

| EDP No.     | Drill Diameter | Shank Diameter | Flute Length | Overall Length |
|-------------|----------------|----------------|--------------|----------------|
| RCH-Coating | D1             | D2             | L1           | L2             |
| DTX423030   | 3.0            | 6              | 20           | 62             |
| DTX423031   | 3.1            | 6              | 20           | 62             |
| DTX423032   | 3.2            | 6              | 20           | 62             |
| DTX423033   | 3.3            | 6              | 20           | 62             |
| DTX423034   | 3.4            | 6              | 20           | 62             |
| DTX423035   | 3.5            | 6              | 20           | 62             |
| DTX423036   | 3.6            | 6              | 20           | 62             |
| DTX423037   | 3.7            | 6              | 20           | 62             |
| DTX423038   | 3.8            | 6              | 24           | 66             |
| DTX423039   | 3.9            | 6              | 24           | 66             |
| DTX423040   | 4.0            | 6              | 24           | 66             |
| DTX423041   | 4.1            | 6              | 24           | 66             |
| DTX423042   | 4.2            | 6              | 24           | 66             |
| DTX423043   | 4.3            | 6              | 24           | 66             |
| DTX423044   | 4.4            | 6              | 24           | 66             |
| DTX423045   | 4.5            | 6              | 24           | 66             |
| DTX423046   | 4.6            | 6              | 24           | 66             |
| DTX423047   | 4.7            | 6              | 24           | 66             |
| DTX423048   | 4.8            | 6              | 28           | 66             |
| DTX423049   | 4.9            | 6              | 28           | 66             |
| DTX423050   | 5.0            | 6              | 28           | 66             |
| DTX423051   | 5.1            | 6              | 28           | 66             |
| DTX423052   | 5.2            | 6              | 28           | 66             |
| DTX423053   | 5.3            | 6              | 28           | 66             |
| DTX423054   | 5.4            | 6              | 28           | 66             |
| DTX423055   | 5.5            | 6              | 28           | 66             |
| DTX423056   | 5.6            | 6              | 28           | 66             |
| DTX423057   | 5.7            | 6              | 28           | 66             |
| DTX423058   | 5.8            | 6              | 28           | 66             |
| DTX423059   | 5.9            | 6              | 28           | 66             |

| EDP No.     | Drill Diameter | Shank Diameter | Flute Length | Overall Length |
|-------------|----------------|----------------|--------------|----------------|
| RCH-Coating | D1             | D2             | L1           | L2             |
| DTX423060   | 6.0            | 6              | 28           | 66             |
| DTX423061   | 6.1            | 8              | 34           | 79             |
| DTX423062   | 6.2            | 8              | 34           | 79             |
| DTX423063   | 6.3            | 8              | 34           | 79             |
| DTX423064   | 6.4            | 8              | 34           | 79             |
| DTX423065   | 6.5            | 8              | 34           | 79             |
| DTX423066   | 6.6            | 8              | 34           | 79             |
| DTX423067   | 6.7            | 8              | 34           | 79             |
| DTX423068   | 6.8            | 8              | 34           | 79             |
| DTX423069   | 6.9            | 8              | 34           | 79             |
| DTX423070   | 7.0            | 8              | 34           | 79             |
| DTX423071   | 7.1            | 8              | 41           | 79             |
| DTX423072   | 7.2            | 8              | 41           | 79             |
| DTX423073   | 7.3            | 8              | 41           | 79             |
| DTX423074   | 7.4            | 8              | 41           | 79             |
| DTX423075   | 7.5            | 8              | 41           | 79             |
| DTX423076   | 7.6            | 8              | 41           | 79             |
| DTX423077   | 7.7            | 8              | 41           | 79             |
| DTX423078   | 7.8            | 8              | 41           | 79             |
| DTX423079   | 7.9            | 8              | 41           | 79             |
| DTX423080   | 8.0            | 8              | 41           | 79             |
| DTX423081   | 8.1            | 10             | 47           | 89             |
| DTX423082   | 8.2            | 10             | 47           | 89             |
| DTX423083   | 8.3            | 10             | 47           | 89             |
| DTX423084   | 8.4            | 10             | 47           | 89             |
| DTX423085   | 8.5            | 10             | 47           | 89             |
| DTX423086   | 8.6            | 10             | 47           | 89             |
| DTX423087   | 8.7            | 10             | 47           | 89             |
| DTX423088   | 8.8            | 10             | 47           | 89             |
| DTX423089   | 8.9            | 10             | 47           | 89             |

► NEXT PAGE

◎ : Excellent ○ : Good

| ISO                  | P                      |     |     |     |     |                        |     |     |     |     | M                                         |     |     |     |     | K                      |     |     |     |     |
|----------------------|------------------------|-----|-----|-----|-----|------------------------|-----|-----|-----|-----|-------------------------------------------|-----|-----|-----|-----|------------------------|-----|-----|-----|-----|
| Material Description | Non-alloy steel        |     |     |     |     | Low alloy steel        |     |     |     |     | High alloyed steel, and tool steel        |     |     |     |     | Stainless steel        |     |     |     |     |
| VDI 3323             | 1                      | 2   | 3   | 4   | 5   | 6                      | 7   | 8   | 9   | 10  | 11                                        | 12  | 13  | 14  | 15  | 16                     | 17  | 18  | 19  | 20  |
| HRC                  | 13                     | 25  | 28  | 32  | 30  | 10                     | 29  | 32  | 38  | 15  | 35                                        | 15  | 23  | 10  | 10  | 26                     | 3   | 25  |     | 21  |
| HB                   | 125                    | 190 | 250 | 270 | 300 | 180                    | 275 | 300 | 350 | 200 | 325                                       | 200 | 240 | 180 | 180 | 260                    | 160 | 250 | 130 | 230 |
| Recommended          | ◎                      | ◎   | ◎   | ◎   | ◎   | ◎                      | ◎   | ◎   | ◎   | ◎   | ◎                                         | ◎   | ◎   | ◎   | ◎   | ◎                      | ◎   | ◎   | ◎   | ◎   |
| ISO                  | N                      |     |     |     |     |                        |     |     |     |     | S                                         |     |     |     |     | H                      |     |     |     |     |
| Material Description | Aluminum-wrought alloy |     |     |     |     | Aluminum-cast, alloyed |     |     |     |     | Copper and Copper Alloys (Bronze / Brass) |     |     |     |     | Non Metallic Materials |     |     |     |     |
| VDI 3323             | 21                     | 22  | 23  | 24  | 25  | 26                     | 27  | 28  | 29  | 30  | 31                                        | 32  | 33  | 34  | 35  | 36                     | 37  | 38  | 39  | 40  |
| HRC                  |                        |     |     |     |     |                        |     |     |     |     |                                           |     |     |     |     |                        |     |     |     |     |
| HB                   | 60                     | 100 | 75  | 90  | 130 | 110                    | 90  | 100 |     |     |                                           |     |     |     |     |                        |     |     |     |     |
| Recommended          |                        |     |     |     |     |                        |     |     |     |     |                                           |     |     |     |     |                        |     |     |     |     |



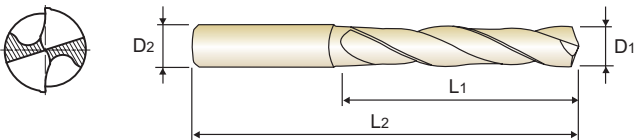
DTX423 SERIES

CARBIDE, DREAM DRILL X (3XD)

- VOLLHARTMETALL DREAM SPIRALBOHRER X
- Forets DREAM DRILLS X carbure, série extra-courte
- PUNTE ELICOIDALI IN MD - DREAM DRILLS X

- Upgraded coating for higher Tool Life in various materials
- Soft cutting action and reduced axial forces; Easy to Recondition
- Good self-centering even at low feed rates and unstable situations
- Excellent Chip breaking and chip evacuation

- Verbesserte Beschichtung für höhere Standzeit in verschiedenen Materialien
- Weicher Schnitt und reduzierte Axialkräfte; leicht nachzuschleifen
- Sehr gute Selbstzentrierung auch bei niedrigen Vorschubgeschwindigkeiten und labilen Verhältnissen
- Hervorragender Spanbruch und Spanabfuhr



3 × D

Unit : mm

| EDP No.     | Drill Diameter | Shank Diameter | Flute Length | Overall Length |
|-------------|----------------|----------------|--------------|----------------|
| RCH-Coating | D1             | D2             | L1           | L2             |
| DTX423090   | 9.0            | 10             | 47           | 89             |
| DTX423091   | 9.1            | 10             | 47           | 89             |
| DTX423092   | 9.2            | 10             | 47           | 89             |
| DTX423093   | 9.3            | 10             | 47           | 89             |
| DTX423094   | 9.4            | 10             | 47           | 89             |
| DTX423095   | 9.5            | 10             | 47           | 89             |
| DTX423096   | 9.6            | 10             | 47           | 89             |
| DTX423097   | 9.7            | 10             | 47           | 89             |
| DTX423098   | 9.8            | 10             | 47           | 89             |
| DTX423099   | 9.9            | 10             | 47           | 89             |
| DTX423100   | 10.0           | 10             | 47           | 89             |
| DTX423101   | 10.1           | 12             | 55           | 102            |
| DTX423102   | 10.2           | 12             | 55           | 102            |
| DTX423103   | 10.3           | 12             | 55           | 102            |
| DTX423104   | 10.4           | 12             | 55           | 102            |
| DTX423105   | 10.5           | 12             | 55           | 102            |
| DTX423106   | 10.6           | 12             | 55           | 102            |
| DTX423107   | 10.7           | 12             | 55           | 102            |
| DTX423108   | 10.8           | 12             | 55           | 102            |
| DTX423109   | 10.9           | 12             | 55           | 102            |
| DTX423110   | 11.0           | 12             | 55           | 102            |
| DTX423111   | 11.1           | 12             | 55           | 102            |
| DTX423112   | 11.2           | 12             | 55           | 102            |
| DTX423113   | 11.3           | 12             | 55           | 102            |
| DTX423114   | 11.4           | 12             | 55           | 102            |
| DTX423115   | 11.5           | 12             | 55           | 102            |
| DTX423116   | 11.6           | 12             | 55           | 102            |
| DTX423117   | 11.7           | 12             | 55           | 102            |
| DTX423118   | 11.8           | 12             | 55           | 102            |
| DTX423119   | 11.9           | 12             | 55           | 102            |

| ISO                  | P                      |     |     |     |     |                        |     |     |     |     | M                                         |     |     |     |     | K                      |     |     |     |     |
|----------------------|------------------------|-----|-----|-----|-----|------------------------|-----|-----|-----|-----|-------------------------------------------|-----|-----|-----|-----|------------------------|-----|-----|-----|-----|
| Material Description | Non-alloy steel        |     |     |     |     | Low alloy steel        |     |     |     |     | High alloyed steel, and tool steel        |     |     |     |     | Stainless steel        |     |     |     |     |
| VDI 3323             | 1                      | 2   | 3   | 4   | 5   | 6                      | 7   | 8   | 9   | 10  | 11                                        | 12  | 13  | 14  | 15  | 16                     | 17  | 18  | 19  | 20  |
| HRC                  | 13                     | 25  | 28  | 32  | 30  | 10                     | 29  | 32  | 38  | 15  | 35                                        | 15  | 23  | 10  | 10  | 26                     | 3   | 25  |     | 21  |
| HB                   | 125                    | 190 | 250 | 270 | 300 | 180                    | 275 | 300 | 350 | 200 | 325                                       | 200 | 240 | 180 | 180 | 260                    | 160 | 250 | 130 | 230 |
| Recommended          | ◎                      | ◎   | ◎   | ◎   | ◎   | ◎                      | ◎   | ◎   | ◎   | ◎   | ◎                                         | ◎   | ◎   | ◎   | ◎   | ◎                      | ◎   | ◎   | ◎   | ◎   |
| ISO                  | N                      |     |     |     |     |                        |     |     |     |     | S                                         |     |     |     |     | H                      |     |     |     |     |
| Material Description | Aluminum-wrought alloy |     |     |     |     | Aluminum-cast, alloyed |     |     |     |     | Copper and Copper Alloys (Bronze / Brass) |     |     |     |     | Non Metallic Materials |     |     |     |     |
| VDI 3323             | 21                     | 22  | 23  | 24  | 25  | 26                     | 27  | 28  | 29  | 30  | 31                                        | 32  | 33  | 34  | 35  | 36                     | 37  | 38  | 39  | 40  |
| HRC                  |                        |     |     |     |     |                        |     |     |     |     |                                           |     |     |     |     |                        |     |     |     |     |
| HB                   | 60                     | 100 | 75  | 90  | 130 | 110                    | 90  | 100 |     |     |                                           |     |     |     |     |                        |     |     |     |     |
| Recommended          |                        |     |     |     |     |                        |     |     |     |     |                                           |     |     |     |     |                        |     |     |     |     |









DTX406 SERIES

CARBIDE, DREAM DRILL X with COOLANT HOLES (3XD)

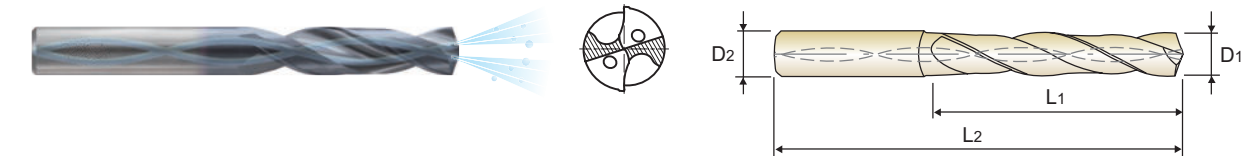
SHORT

- VOLLHARTMETALL DREAM SPIRALBOHRER mit KÜHLKANAL
- Forets DREAM DRILLS carbure, avec arrosage central, série courte
- PUNTE ELICOIDALI IN MD - DREAM DRILLS (con fori di refrigerazione)

KURZ  
COURTE  
CORTA

- Upgraded coating for higher Tool Life in various materials
- Soft cutting action and reduced axial forces; Easy to Recondition
- Good self-centering even at low feed rates and unstable situations
- Excellent Chip breaking and chip evacuation

- Verbesserte Beschichtung für höhere Standzeit in verschiedenen Materialien
- Weicher Schnitt und reduzierte Axialkräfte; leicht nachzuschleifen
- Sehr gute Selbstzentrierung auch bei niedrigen Vorschubgeschwindigkeiten und labilen Verhältnissen
- Hervorragender Spanbruch und Spanabfuhr



DIN 6537

CARBIDE

30°

h6

m7

140°

20 bar

RCH Coating

p.A93

3 × D

| Unit : mm   |                |                |              |                | Unit : mm   |                |                |              |                |
|-------------|----------------|----------------|--------------|----------------|-------------|----------------|----------------|--------------|----------------|
| EDP No.     | Drill Diameter | Shank Diameter | Flute Length | Overall Length | EDP No.     | Drill Diameter | Shank Diameter | Flute Length | Overall Length |
| RCH-Coating | D1             | D2             | L1           | L2             | RCH-Coating | D1             | D2             | L1           | L2             |
| DTX406086   | 8.6            | 10             | 47           | 89             | DTX406114   | 11.4           | 12             | 55           | 102            |
| DTX406087   | 8.7            | 10             | 47           | 89             | DTX406115   | 11.5           | 12             | 55           | 102            |
| DTX406088   | 8.8            | 10             | 47           | 89             | DTX406116   | 11.6           | 12             | 55           | 102            |
| DTX406089   | 8.9            | 10             | 47           | 89             | DTX406117   | 11.7           | 12             | 55           | 102            |
| DTX406090   | 9.0            | 10             | 47           | 89             | DTX406118   | 11.8           | 12             | 55           | 102            |
| DTX406091   | 9.1            | 10             | 47           | 89             | DTX406119   | 11.9           | 12             | 55           | 102            |
| DTX406092   | 9.2            | 10             | 47           | 89             | DTX406120   | 12.0           | 12             | 55           | 102            |
| DTX406093   | 9.3            | 10             | 47           | 89             | DTX406125   | 12.5           | 14             | 60           | 107            |
| DTX406094   | 9.4            | 10             | 47           | 89             | DTX406130   | 13.0           | 14             | 60           | 107            |
| DTX406095   | 9.5            | 10             | 47           | 89             | DTX406135   | 13.5           | 14             | 60           | 107            |
| DTX406096   | 9.6            | 10             | 47           | 89             | DTX406140   | 14.0           | 14             | 60           | 107            |
| DTX406097   | 9.7            | 10             | 47           | 89             | DTX406145   | 14.5           | 16             | 65           | 115            |
| DTX406098   | 9.8            | 10             | 47           | 89             | DTX406150   | 15.0           | 16             | 65           | 115            |
| DTX406099   | 9.9            | 10             | 47           | 89             | DTX406155   | 15.5           | 16             | 65           | 115            |
| DTX406100   | 10.0           | 10             | 47           | 89             | DTX406160   | 16.0           | 16             | 65           | 115            |
| DTX406101   | 10.1           | 12             | 55           | 102            | DTX406165   | 16.5           | 18             | 73           | 123            |
| DTX406102   | 10.2           | 12             | 55           | 102            | DTX406170   | 17.0           | 18             | 73           | 123            |
| DTX406103   | 10.3           | 12             | 55           | 102            | DTX406175   | 17.5           | 18             | 73           | 123            |
| DTX406104   | 10.4           | 12             | 55           | 102            | DTX406180   | 18.0           | 18             | 73           | 123            |
| DTX406105   | 10.5           | 12             | 55           | 102            | DTX406185   | 18.5           | 20             | 79           | 131            |
| DTX406106   | 10.6           | 12             | 55           | 102            | DTX406190   | 19.0           | 20             | 79           | 131            |
| DTX406107   | 10.7           | 12             | 55           | 102            | DTX406195   | 19.5           | 20             | 79           | 131            |
| DTX406108   | 10.8           | 12             | 55           | 102            | DTX406200   | 20.0           | 20             | 79           | 131            |
| DTX406109   | 10.9           | 12             | 55           | 102            |             |                |                |              |                |
| DTX406110   | 11.0           | 12             | 55           | 102            |             |                |                |              |                |
| DTX406111   | 11.1           | 12             | 55           | 102            |             |                |                |              |                |
| DTX406112   | 11.2           | 12             | 55           | 102            |             |                |                |              |                |
| DTX406113   | 11.3           | 12             | 55           | 102            |             |                |                |              |                |

► Other shank types are available on your request.

| ISO                  |  | P                      |     |     |     |     |                        |     |     |     |     | M                                         |     |     |     | K                      |     |     |     |
|----------------------|--|------------------------|-----|-----|-----|-----|------------------------|-----|-----|-----|-----|-------------------------------------------|-----|-----|-----|------------------------|-----|-----|-----|
| Material Description |  | Non-alloy steel        |     |     |     |     | Low alloy steel        |     |     |     |     | High alloyed steel, and tool steel        |     |     |     | Stainless steel        |     |     |     |
| VDI 3323             |  | 1                      | 2   | 3   | 4   | 5   | 6                      | 7   | 8   | 9   | 10  | 11                                        | 12  | 13  | 14  | 15                     | 16  | 17  | 18  |
| HRc                  |  | 13                     | 25  | 28  | 32  | 30  | 10                     | 29  | 32  | 38  | 15  | 35                                        | 15  | 23  | 10  | 10                     | 26  | 3   | 25  |
| HB                   |  | 125                    | 190 | 250 | 270 | 300 | 180                    | 275 | 300 | 350 | 200 | 325                                       | 200 | 240 | 180 | 180                    | 260 | 160 | 250 |
| Recommended          |  | ◎                      | ◎   | ◎   | ◎   | ◎   | ◎                      | ◎   | ◎   | ◎   | ◎   | ◎                                         | ◎   | ◎   | ◎   | ◎                      | ◎   | ◎   | ◎   |
| ISO                  |  | N                      |     |     |     |     |                        |     |     |     |     | S                                         |     |     |     | H                      |     |     |     |
| Material Description |  | Aluminum-wrought alloy |     |     |     |     | Aluminum-cast, alloyed |     |     |     |     | Copper and Copper Alloys (Bronze / Brass) |     |     |     | Non Metallic Materials |     |     |     |
| VDI 3323             |  | 21                     | 22  | 23  | 24  | 25  | 26                     | 27  | 28  | 29  | 30  | 31                                        | 32  | 33  | 34  | 35                     | 36  | 37  | 38  |
| HRc                  |  |                        |     |     |     |     |                        |     |     |     |     |                                           |     |     |     |                        |     |     |     |
| HB                   |  | 60                     | 100 | 75  | 90  | 130 | 110                    | 90  | 100 |     |     |                                           |     |     |     |                        |     |     |     |
| Recommended          |  |                        |     |     |     |     |                        |     |     |     |     |                                           |     |     |     |                        |     |     |     |



DTX408 SERIES

CARBIDE, DREAM DRILL X with COOLANT HOLES (5XD)

LONG

- VOLLHARTMETALL DREAM SPIRALBOHRER mit KÜHLKANAL
- Forets DREAM DRILLS carbure, avec arrosage central, série longue
- PUNTE ELICOIDALI IN MD - DREAM DRILLS (con fori di refrigerazione)

LANG  
LONGUE  
LUNGA

- Upgraded coating for higher Tool Life in various materials
- Soft cutting action and reduced axial forces; Easy to Recondition
- Good self-centering even at low feed rates and unstable situations
- Excellent Chip breaking and chip evacuation

- Verbesserte Beschichtung für höhere Standzeit in verschiedenen Materialien
- Weicher Schnitt und reduzierte Axialkräfte; leicht nachzuschleifen
- Sehr gute Selbstzentrierung auch bei niedrigen Vorschubgeschwindigkeiten und labilen Verhältnissen
- Hervorragender Spanbruch und Spanabfuhr



DIN 6537

CARBIDE

30°

h6

m7

140°

20 bar

RCH Coating

p.A93

5 × D

| Unit : mm   |                |                |              |                | Unit : mm   |                |                |              |                |
|-------------|----------------|----------------|--------------|----------------|-------------|----------------|----------------|--------------|----------------|
| EDP No.     | Drill Diameter | Shank Diameter | Flute Length | Overall Length | EDP No.     | Drill Diameter | Shank Diameter | Flute Length | Overall Length |
| RCH-Coating | D1             | D2             | L1           | L2             | RCH-Coating | D1             | D2             | L1           | L2             |
| DTX408010   | 1.0            | 3              | 8            | 55             | DTX408038   | 3.8            | 6              | 36           | 74             |
| DTX408011   | 1.1            | 3              | 12           | 55             | DTX408039   | 3.9            | 6              | 36           | 74             |
| DTX408012   | 1.2            | 3              | 12           | 55             | DTX408040   | 4.0            | 6              | 36           | 74             |
| DTX408013   | 1.3            | 3              | 12           | 55             | DTX408041   | 4.1            | 6              | 36           | 74             |
| DTX408014   | 1.4            | 3              | 12           | 55             | DTX408042   | 4.2            | 6              | 36           | 74             |
| DTX408015   | 1.5            | 3              | 16           | 55             | DTX408043   | 4.3            | 6              | 36           | 74             |
| DTX408016   | 1.6            | 3              | 16           | 55             | DTX408044   | 4.4            | 6              | 36           | 74             |
| DTX408017   | 1.7            | 3              | 16           | 55             | DTX408045   | 4.5            | 6              | 36           | 74             |
| DTX408018   | 1.8            | 3              | 16           | 55             | DTX408046   | 4.6            | 6              | 36           | 74             |
| DTX408019   | 1.9            | 3              | 16           | 55             | DTX408047   | 4.7            | 6              | 36           | 74             |
| DTX408020   | 2.0            | 4              | 21           | 57             | DTX408048   | 4.8            | 6              | 44           | 82             |
| DTX408021   | 2.1            | 4              | 21           | 57             | DTX408049   | 4.9            | 6              | 44           | 82             |
| DTX408022   | 2.2            | 4              | 21           | 57             | DTX408050   | 5.0            | 6              | 44           | 82             |
| DTX408023   | 2.3            | 4              | 21           | 57             | DTX408051   | 5.1            | 6              | 44           | 82             |
| DTX408024   | 2.4            | 4              | 21           | 57             | DTX408052   | 5.2            | 6              | 44           | 82             |
| DTX408025   | 2.5            | 4              | 21           | 57             | DTX408053   | 5.3            | 6              | 44           | 82             |
| DTX408026   | 2.6            | 4              | 21           | 57             | DTX408054   | 5.4            | 6              | 44           | 82             |
| DTX408027   | 2.7            | 4              | 21           | 57             | DTX408055   | 5.5            | 6              | 44           | 82             |
| DTX408028   | 2.8            | 4              | 21           | 57             | DTX408056   | 5.6            | 6              | 44           | 82             |
| DTX408029   | 2.9            | 4              | 21           | 57             | DTX408057   | 5.7            | 6              | 44           | 82             |
| DTX408030   | 3.0            | 6              | 28           | 66             | DTX408058   | 5.8            | 6              | 44           | 82             |
| DTX408031   | 3.1            | 6              | 28           | 66             | DTX408059   | 5.9            | 6              | 44           | 82             |
| DTX408032   | 3.2            | 6              | 28           | 66             | DTX408060   | 6.0            | 6              | 44           | 82             |
| DTX408033   | 3.3            | 6              | 28           | 66             | DTX408061   | 6.1            | 8              | 53           | 91             |
| DTX408034   | 3.4            | 6              | 28           | 66             | DTX408062   | 6.2            | 8              | 53           | 91             |
| DTX408035   | 3.5            | 6              | 28           | 66             | DTX408063   | 6.3            | 8              | 53           | 91             |
| DTX408036   | 3.6            | 6              | 28           | 66             | DTX408064   | 6.4            | 8              | 53           | 91             |
| DTX408037   | 3.7            | 6              | 28           | 66             | DTX408065   | 6.5            | 8              | 53           | 91             |

► Other shank types are available on your request.

► NEXT PAGE

| ISO                  |  | P                      |     |     |     |     |                        |     |     |     |     | M                                         |     |     |     | K                      |     |     |     |
|----------------------|--|------------------------|-----|-----|-----|-----|------------------------|-----|-----|-----|-----|-------------------------------------------|-----|-----|-----|------------------------|-----|-----|-----|
| Material Description |  | Non-alloy steel        |     |     |     |     | Low alloy steel        |     |     |     |     | High alloyed steel, and tool steel        |     |     |     | Stainless steel        |     |     |     |
| VDI 3323             |  | 1                      | 2   | 3   | 4   | 5   | 6                      | 7   | 8   | 9   | 10  | 11                                        | 12  | 13  | 14  | 15                     | 16  | 17  | 18  |
| HRc                  |  | 13                     | 25  | 28  | 32  | 30  | 10                     | 29  | 32  | 38  | 15  | 35                                        | 15  | 23  | 10  | 10                     | 26  | 3   | 25  |
| HB                   |  | 125                    | 190 | 250 | 270 | 300 | 180                    | 275 | 300 | 350 | 200 | 325                                       | 200 | 240 | 180 | 180                    | 260 | 160 | 250 |
| Recommended          |  | ◎                      | ◎   | ◎   | ◎   | ◎   | ◎                      | ◎   | ◎   | ◎   | ◎   | ◎                                         | ◎   | ◎   | ◎   | ◎                      | ◎   | ◎   | ◎   |
| ISO                  |  | N                      |     |     |     |     |                        |     |     |     |     | S                                         |     |     |     | H                      |     |     |     |
| Material Description |  | Aluminum-wrought alloy |     |     |     |     | Aluminum-cast, alloyed |     |     |     |     | Copper and Copper Alloys (Bronze / Brass) |     |     |     | Non Metallic Materials |     |     |     |
| VDI 3323             |  | 21                     | 22  | 23  | 24  | 25  | 26                     | 27  | 28  | 29  | 30  | 31                                        | 32  | 33  | 34  | 35                     | 36  | 37  | 38  |
| HRc                  |  |                        |     |     |     |     |                        |     |     |     |     |                                           |     |     |     |                        |     |     |     |
| HB                   |  | 60                     | 100 | 75  | 90  | 130 | 110                    | 90  | 100 |     |     |                                           |     |     |     |                        |     |     |     |
| Recommended          |  |                        |     |     |     |     |                        |     |     |     |     |                                           |     |     |     |                        |     |     |     |



DTX408 SERIES

CARBIDE, DREAM DRILL X with COOLANT HOLES (5XD)

LONG

- VOLLHARTMETALL DREAM SPIRALBOHRER mit KÜHLKANAL
- Forets DREAM DRILLS carbure, avec arrosage central, série longue
- PUNTE ELICOIDALI IN MD - DREAM DRILLS (con fori di refrigerazione)

LANG  
LONGUE  
LUNGA

- Upgraded coating for higher Tool Life in various materials
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- Weicher Schnitt und reduzierte Axialkräfte; leicht nachzuschleifen
- Sehr gute Selbstzentrierung auch bei niedrigen Vorschubgeschwindigkeiten und labilen Verhältnissen
- Hervorragender Spanbruch und Spanabfuhr



DIN 6537

CARBIDE

30°

h6

m7

140°

20 bar

RCH Coating

p.A93

5 × D

| EDP No.     | Drill Diameter | Shank Diameter | Flute Length | Overall Length |
|-------------|----------------|----------------|--------------|----------------|
|             | D1             | D2             | L1           | L2             |
| RCH-Coating |                |                |              |                |
| DTX408066   | 6.6            | 8              | 53           | 91             |
| DTX408067   | 6.7            | 8              | 53           | 91             |
| DTX408068   | 6.8            | 8              | 53           | 91             |
| DTX408069   | 6.9            | 8              | 53           | 91             |
| DTX408070   | 7.0            | 8              | 53           | 91             |
| DTX408071   | 7.1            | 8              | 53           | 91             |
| DTX408072   | 7.2            | 8              | 53           | 91             |
| DTX408073   | 7.3            | 8              | 53           | 91             |
| DTX408074   | 7.4            | 8              | 53           | 91             |
| DTX408075   | 7.5            | 8              | 53           | 91             |
| DTX408076   | 7.6            | 8              | 53           | 91             |
| DTX408077   | 7.7            | 8              | 53           | 91             |
| DTX408078   | 7.8            | 8              | 53           | 91             |
| DTX408079   | 7.9            | 8              | 53           | 91             |
| DTX408080   | 8.0            | 8              | 53           | 91             |
| DTX408081   | 8.1            | 10             | 61           | 103            |
| DTX408082   | 8.2            | 10             | 61           | 103            |
| DTX408083   | 8.3            | 10             | 61           | 103            |
| DTX408084   | 8.4            | 10             | 61           | 103            |
| DTX408085   | 8.5            | 10             | 61           | 103            |
| DTX408086   | 8.6            | 10             | 61           | 103            |
| DTX408087   | 8.7            | 10             | 61           | 103            |
| DTX408088   | 8.8            | 10             | 61           | 103            |
| DTX408089   | 8.9            | 10             | 61           | 103            |
| DTX408090   | 9.0            | 10             | 61           | 103            |
| DTX408091   | 9.1            | 10             | 61           | 103            |
| DTX408092   | 9.2            | 10             | 61           | 103            |
| DTX408093   | 9.3            | 10             | 61           | 103            |

► Other shank types are available on your request.

► NEXT PAGE

| ISO                  | P                      |     |     |     |     |                        |     |     |     |     | M                                         |     |     |     | K                      |     |                   |     |
|----------------------|------------------------|-----|-----|-----|-----|------------------------|-----|-----|-----|-----|-------------------------------------------|-----|-----|-----|------------------------|-----|-------------------|-----|
|                      | Non-alloy steel        |     |     |     |     | Low alloy steel        |     |     |     |     | Stainless steel                           |     |     |     | Grey cast iron         |     | Nodular cast iron |     |
| Material Description | 1                      | 2   | 3   | 4   | 5   | 6                      | 7   | 8   | 9   | 10  | 11                                        | 12  | 13  | 14  | 15                     | 16  | 17                | 18  |
| VDI 3323             |                        |     |     |     |     |                        |     |     |     |     |                                           |     |     |     |                        |     |                   |     |
| HRc                  |                        | 13  | 25  | 28  | 32  | 10                     | 29  | 32  | 38  | 15  | 35                                        | 15  | 23  | 10  | 10                     | 26  | 3                 | 25  |
| HB                   | 125                    | 190 | 250 | 270 | 300 | 180                    | 275 | 300 | 350 | 200 | 325                                       | 200 | 240 | 180 | 180                    | 260 | 160               | 250 |
| Recommended          | ◎                      | ◎   | ◎   | ◎   | ◎   | ◎                      | ◎   | ◎   | ◎   | ◎   | ◎                                         | ◎   | ◎   | ◎   | ◎                      | ◎   | ◎                 | ◎   |
| ISO                  | N                      |     |     |     |     |                        |     |     |     |     | S                                         |     |     |     | H                      |     |                   |     |
|                      | Aluminum-wrought alloy |     |     |     |     | Aluminum-cast, alloyed |     |     |     |     | Copper and Copper Alloys (Bronze / Brass) |     |     |     | Non Metallic Materials |     |                   |     |
| Material Description | 21                     | 22  | 23  | 24  | 25  | 26                     | 27  | 28  | 29  | 30  | 31                                        | 32  | 33  | 34  | 35                     | 36  | 37                | 38  |
| VDI 3323             |                        |     |     |     |     |                        |     |     |     |     |                                           |     |     |     |                        |     |                   |     |
| HRc                  |                        |     |     |     |     |                        |     |     |     |     |                                           |     |     |     |                        |     |                   |     |
| HB                   | 60                     | 100 | 75  | 90  | 130 | 110                    | 90  | 100 |     |     |                                           |     |     |     |                        |     |                   |     |
| Recommended          |                        |     |     |     |     |                        |     |     |     |     |                                           |     |     |     |                        |     |                   |     |



DTX408 SERIES

CARBIDE, DREAM DRILL X with COOLANT HOLES (5XD)

LONG

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- Hervorragender Spanbruch und Spanabfuhr



DIN 6537

CARBIDE

30°

h6

m7

140°

20 bar

RCH Coating

p.A93

5 × D

| EDP No.     | Drill Diameter | Shank Diameter | Flute Length | Overall Length |
|-------------|----------------|----------------|--------------|----------------|
|             | D1             | D2             | L1           | L2             |
| RCH-Coating |                |                |              |                |
| DTX408130   | 13.0           | 14             | 77           | 124            |
| DTX408135   | 13.5           | 14             | 77           | 124            |
| DTX408140   | 14.0           | 14             | 77           | 124            |
| DTX408145   | 14.5           | 16             | 83           | 133            |
| DTX408150   | 15.0           | 16             | 83           | 133            |
| DTX408155   | 15.5           | 16             | 83           | 133            |
| DTX408160   | 16.0           | 16             | 83           | 133            |
| DTX408165   | 16.5           | 18             | 93           | 143            |

► Other shank types are available on your request.

| ISO                  | P                      |     |     |     |     |                        |     |     |     |     | M                                         |     |     |     | K                      |     |                   |     |
|----------------------|------------------------|-----|-----|-----|-----|------------------------|-----|-----|-----|-----|-------------------------------------------|-----|-----|-----|------------------------|-----|-------------------|-----|
|                      | Non-alloy steel        |     |     |     |     | Low alloy steel        |     |     |     |     | Stainless steel                           |     |     |     | Grey cast iron         |     | Nodular cast iron |     |
| Material Description | 1                      | 2   | 3   | 4   | 5   | 6                      | 7   | 8   | 9   | 10  | 11                                        | 12  | 13  | 14  | 15                     | 16  | 17                | 18  |
| VDI 3323             |                        |     |     |     |     |                        |     |     |     |     |                                           |     |     |     |                        |     |                   |     |
| HRc                  |                        | 13  | 25  | 28  | 32  | 10                     | 29  | 32  | 38  | 15  | 35                                        | 15  | 23  | 10  | 10                     | 26  | 3                 | 25  |
| HB                   | 125                    | 190 | 250 | 270 | 300 | 180                    | 275 | 300 | 350 | 200 | 325                                       | 200 | 240 | 180 | 180                    | 260 | 160               | 250 |
| Recommended          | ◎                      | ◎   | ◎   | ◎   | ◎   | ◎                      | ◎   | ◎   | ◎   | ◎   | ◎                                         | ◎   | ◎   | ◎   | ◎                      | ◎   | ◎                 | ◎   |
| ISO                  | N                      |     |     |     |     |                        |     |     |     |     | S                                         |     |     |     | H                      |     |                   |     |
|                      | Aluminum-wrought alloy |     |     |     |     | Aluminum-cast, alloyed |     |     |     |     | Copper and Copper Alloys (Bronze / Brass) |     |     |     | Non Metallic Materials |     |                   |     |
| Material Description | 21                     | 22  | 23  | 24  | 25  | 26                     | 27  | 28  | 29  | 30  | 31                                        | 32  | 33  | 34  | 35                     | 36  | 37                | 38  |
| VDI 3323             |                        |     |     |     |     |                        |     |     |     |     |                                           |     |     |     |                        |     |                   |     |
| HRc                  |                        |     |     |     |     |                        |     |     |     |     |                                           |     |     |     |                        |     |                   |     |
| HB                   | 60                     | 100 | 75  | 90  | 130 | 110                    | 90  | 100 |     |     |                                           |     |     |     |                        |     |                   |     |
| Recommended          |                        |     |     |     |     |                        |     |     |     |     |                                           |     |     |     |                        |     |                   |     |





DTX421 SERIES

CARBIDE, DREAM DRILL X with COOLANT HOLES (8XD)

EXTRA LONG

- VOLLHARTMETALL DREAM SPIRALBOHRER mit KÜHLKANAL
- Forets DREAM DRILLS carbure, avec arrosage central, série extra-longue
- PUNTE ELICOIDALI IN MD - DREAM DRILLS (con fori di refrigerazione)

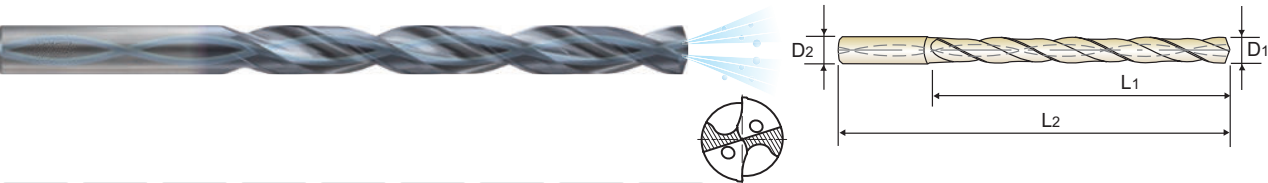
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EXTRA-LONGUE

EXTRA LUNGA

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- Sehr gute Selbstzentrierung auch bei niedrigen Vorschubgeschwindigkeiten und labilen Verhältnissen
- Hervorragender Spanbruch und Spanabfuhr



DIN 6537

CARBIDE

30°

h6

m7

140°

20 bar

RCH Coating

p.A93

8 × D

| EDP No.     | Drill Diameter | Shank Diameter | Flute Length | Overall Length |
|-------------|----------------|----------------|--------------|----------------|
| RCH-Coating | D1             | D2             | L1           | L2             |
| DTX421030   | 3.0            | 6              | 34           | 72             |
| DTX421031   | 3.1            | 6              | 34           | 72             |
| DTX421032   | 3.2            | 6              | 34           | 72             |
| DTX421033   | 3.3            | 6              | 34           | 72             |
| DTX421034   | 3.4            | 6              | 34           | 72             |
| DTX421035   | 3.5            | 6              | 34           | 72             |
| DTX421036   | 3.6            | 6              | 34           | 72             |
| DTX421037   | 3.7            | 6              | 34           | 72             |
| DTX421038   | 3.8            | 6              | 43           | 81             |
| DTX421039   | 3.9            | 6              | 43           | 81             |
| DTX421040   | 4.0            | 6              | 43           | 81             |
| DTX421041   | 4.1            | 6              | 43           | 81             |
| DTX421042   | 4.2            | 6              | 43           | 81             |
| DTX421043   | 4.3            | 6              | 43           | 81             |
| DTX421044   | 4.4            | 6              | 43           | 81             |
| DTX421045   | 4.5            | 6              | 43           | 81             |
| DTX421046   | 4.6            | 6              | 43           | 81             |
| DTX421047   | 4.7            | 6              | 43           | 81             |
| DTX421048   | 4.8            | 6              | 57           | 95             |
| DTX421049   | 4.9            | 6              | 57           | 95             |
| DTX421050   | 5.0            | 6              | 57           | 95             |
| DTX421051   | 5.1            | 6              | 57           | 95             |
| DTX421052   | 5.2            | 6              | 57           | 95             |
| DTX421053   | 5.3            | 6              | 57           | 95             |
| DTX421054   | 5.4            | 6              | 57           | 95             |
| DTX421055   | 5.5            | 6              | 57           | 95             |
| DTX421056   | 5.6            | 6              | 57           | 95             |
| DTX421057   | 5.7            | 6              | 57           | 95             |

► Other shank types are available on your request.

► NEXT PAGE

| ISO                  | P                      |     |     |     |     |                        |     |     |     |     | M                                         |     |     |     |     | K                      |     |     |     |     |
|----------------------|------------------------|-----|-----|-----|-----|------------------------|-----|-----|-----|-----|-------------------------------------------|-----|-----|-----|-----|------------------------|-----|-----|-----|-----|
| Material Description | Non-alloy steel        |     |     |     |     | Low alloy steel        |     |     |     |     | High alloyed steel, and tool steel        |     |     |     |     | Stainless steel        |     |     |     |     |
| VDI 3323             | 1                      | 2   | 3   | 4   | 5   | 6                      | 7   | 8   | 9   | 10  | 11                                        | 12  | 13  | 14  | 15  | 16                     | 17  | 18  | 19  | 20  |
| HRC                  | 13                     | 25  | 28  | 32  | 30  | 10                     | 29  | 32  | 38  | 15  | 35                                        | 15  | 23  | 10  | 10  | 26                     | 3   | 25  | 21  |     |
| HB                   | 125                    | 190 | 250 | 270 | 300 | 180                    | 275 | 300 | 350 | 200 | 325                                       | 200 | 240 | 180 | 180 | 260                    | 160 | 250 | 130 | 230 |
| Recommended          | ◎                      | ◎   | ◎   | ◎   | ◎   | ◎                      | ◎   | ◎   | ◎   | ◎   | ◎                                         | ◎   | ◎   | ◎   | ◎   | ◎                      | ◎   | ◎   | ◎   | ◎   |
| ISO                  | N                      |     |     |     |     |                        |     |     |     |     | S                                         |     |     |     |     | H                      |     |     |     |     |
| Material Description | Aluminum-wrought alloy |     |     |     |     | Aluminum-cast, alloyed |     |     |     |     | Copper and Copper Alloys (Bronze / Brass) |     |     |     |     | Non Metallic Materials |     |     |     |     |
| VDI 3323             | 21                     | 22  | 23  | 24  | 25  | 26                     | 27  | 28  | 29  | 30  | 31                                        | 32  | 33  | 34  | 35  | 36                     | 37  | 38  | 39  | 40  |
| HRC                  |                        |     |     |     |     |                        |     |     |     |     |                                           |     |     |     |     |                        |     |     |     |     |
| HB                   | 60                     | 100 | 75  | 90  | 130 | 110                    | 90  | 100 |     |     |                                           |     |     |     |     |                        |     |     |     |     |
| Recommended          |                        |     |     |     |     |                        |     |     |     |     |                                           |     |     |     |     |                        |     |     |     |     |

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YG-1 CO., LTD.



DTX421 SERIES

CARBIDE, DREAM DRILL X with COOLANT HOLES (8XD)

EXTRA LONG

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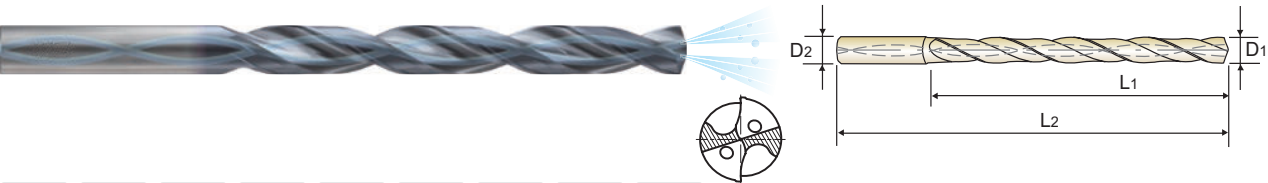
ÜBERLANG

EXTRA-LONGUE

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DIN 6537

CARBIDE

30°

h6

m7

140°

20 bar

RCH Coating

p.A93

8 × D

| EDP No.     | Drill Diameter | Shank Diameter | Flute Length | Overall Length |
|-------------|----------------|----------------|--------------|----------------|
| RCH-Coating | D1             | D2             | L1           | L2             |
| DTX421086   | 8.6            | 10             | 95           | 142            |
| DTX421087   | 8.7            | 10             | 95           | 142            |
| DTX421088   | 8.8            | 10             | 95           | 142            |
| DTX421089   | 8.9            | 10             | 95           | 142            |
| DTX421090   | 9.0            | 10             | 95           | 142            |
| DTX421091   | 9.1            | 10             | 95           | 142            |
| DTX421092   | 9.2            | 10             | 95           | 142            |
| DTX421093   | 9.3            | 10             | 95           | 142            |
| DTX421094   | 9.4            | 10             | 95           | 142            |
| DTX421095   | 9.5            | 10             | 95           | 142            |
| DTX421096   | 9.6            | 10             | 95           | 142            |
| DTX421097   | 9.7            | 10             | 95           | 142            |
| DTX421098   | 9.8            | 10             | 95           | 142            |
| DTX421099   | 9.9            | 10             | 95           | 142            |
| DTX421100   | 10.0           | 10             | 95           | 142            |
| DTX421101   | 10.1           | 12             | 114          | 162            |
| DTX421102   | 10.2           | 12             | 114          | 162            |
| DTX421103   | 10.3           | 12             | 114          | 162            |
| DTX421104   | 10.4           | 12             | 114          | 162            |
| DTX421105   | 10.5           | 12             | 114          | 162            |
| DTX421106   | 10.6           | 12             | 114          | 162            |
| DTX421107   | 10.7           | 12             | 114          | 162            |
| DTX421108   | 10.8           | 12             | 114          | 162            |
| DTX421109   | 10.9           | 12             | 114          | 162            |
| DTX421110   | 11.0           | 12             | 114          | 162            |
| DTX421111   | 11.1           | 12             | 114          | 162            |
| DTX421112   | 11.2           | 12             | 114          | 162            |
| DTX421113   | 11.3           | 12             | 114          | 162            |

► Other shank types are available on your request.

| ISO                  | P                      |     |     |     |     |                        |     |     |     |     | M                                         |     |     |     |     | K                      |     |     |     |     |
|----------------------|------------------------|-----|-----|-----|-----|------------------------|-----|-----|-----|-----|-------------------------------------------|-----|-----|-----|-----|------------------------|-----|-----|-----|-----|
| Material Description | Non-alloy steel        |     |     |     |     | Low alloy steel        |     |     |     |     | High alloyed steel, and tool steel        |     |     |     |     | Stainless steel        |     |     |     |     |
| VDI 3323             | 1                      | 2   | 3   | 4   | 5   | 6                      | 7   | 8   | 9   | 10  | 11                                        | 12  | 13  | 14  | 15  | 16                     | 17  | 18  | 19  | 20  |
| HRC                  | 13                     | 25  | 28  | 32  | 30  | 10                     | 29  | 32  | 38  | 15  | 35                                        | 15  | 23  | 10  | 10  | 26                     | 3   | 25  | 21  |     |
| HB                   | 125                    | 190 | 250 | 270 | 300 | 180                    | 275 | 300 | 350 | 200 | 325                                       | 200 | 240 | 180 | 180 | 260                    | 160 | 250 | 130 | 230 |
| Recommended          | ◎                      | ◎   | ◎   | ◎   | ◎   | ◎                      | ◎   | ◎   | ◎   | ◎   | ◎                                         | ◎   | ◎   | ◎   | ◎   | ◎                      | ◎   | ◎   | ◎   | ◎   |
| ISO                  | N                      |     |     |     |     |                        |     |     |     |     | S                                         |     |     |     |     | H                      |     |     |     |     |
| Material Description | Aluminum-wrought alloy |     |     |     |     | Aluminum-cast, alloyed |     |     |     |     | Copper and Copper Alloys (Bronze / Brass) |     |     |     |     | Non Metallic Materials |     |     |     |     |
| VDI 3323             | 21                     | 22  | 23  | 24  | 25  | 26                     | 27  | 28  | 29  | 30  | 31                                        | 32  | 33  | 34  | 35  | 36                     | 37  | 38  | 39  | 40  |
| HRC                  |                        |     |     |     |     |                        |     |     |     |     |                                           |     |     |     |     |                        |     |     |     |     |
| HB                   | 60                     | 100 | 75  | 90  | 130 | 110                    | 90  | 100 |     |     |                                           |     |     |     |     |                        |     |     |     |     |
| Recommended          |                        |     |     |     |     |                        |     |     |     |     |                                           |     |     |     |     |                        |     |     |     |     |

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A91

CARBIDE

HSS

i-ONE DRILLS

i-DREAM DRILLS

DREAM DRILLS -PRO

DREAM DRILLS X

DREAM DRILLS -GENERAL

DREAM DRILLS -HIGH FEED

DREAM DRILLS -FLAT BOTTOM

DREAM DRILLS -INOX

DREAM DRILLS -ALU

DREAM DRILLS -MQL

DREAM DRILLS for HIGH HARDENED STEELS

GENERAL CARBIDE DRILLS

MULTI-1 DRILLS

HPD DRILLS

GOLD-P DRILLS

SUPER-GP DRILLS

STRAIGHT SHANK DRILLS

TAPER SHANK DRILLS

NC-SPOTTING DRILLS

CENTER DRILLS

SPADE DRILLS

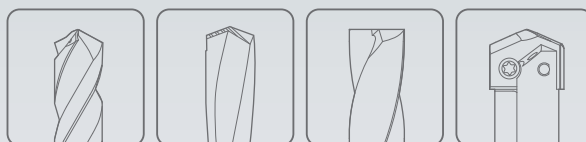
REAMERS

COUNTER SINKS

COUNTER BORES



Global Cutting Tool Leader **YG-1**



# HOLEMAKING