

Index - Spiralbohrer

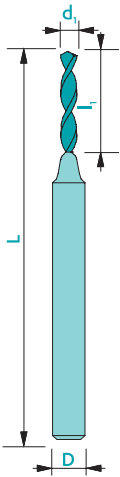
		Seite
7. Spiralbohrer		159
300	Bohrer für Glasfaserverstärkte Kunststoffe	161
330-90	Zentrier & Senkbohrer 90°	162
330-120	Zentrier & Senkbohrer 120°	163
331-90	Pyramid Anbohrer	164
335	Stufenbohrer aus VHM	165
337	NC Anbohrer 90°	166
337-1	NC Anbohrer 90° - linksschneidend	167
337-2	NC Anbohrer 120°	168
337-3	NC Anbohrer 60°	169
338	Spiralbohrer mit Zentrierspitze	170
339	Mikrobohrer - Helix 24°	171
340	Mikrobohrer - Helix 34°	172
340-1	Bohrer - Helix 24°	174
342	Mikrobohrer Helix 34° - Schaft Ø3	177
343-6	Bohrer - Helix 34° - l ₁ =6 mm	180
343-8	Bohrer - Helix 34° - l ₁ =8 mm	182
343-12	Bohrer - Helix 34° - l ₁ =12 mm	185
344	Spiralbohrer mit Kühlkanälen	209
348	Spiralbohrer - Helix 24°	188
352	Lange Spiralbohrer - Helix 34°	190
352-1	Kurze Spiralbohrer - Helix 34°	192
353	Spiralbohrer Z3 - Schaft Ø3	195
353-0	Spiralbohrer Z3 - Schaft Ø3 - kurz	199
353-1	Spiralbohrer Z3	200
353-2	Spiralbohrer Z3 - Lange Serie	202
361	Reibahlen für die Uhrenindustrie	204
363	Kanonenbohrer - rechtschneidend	208
370	EXPERT Bohrer für Nichtrostende Stähle	193

EXPERT Bohrer für Glasfaserverstärkte Kunststoffe

300

Werkstoffe	Vc [m/min]
Glasfaserverstärkte Kunststoffe	200
Stahl < 700 N/mm²	-
Stahl > 700 N/mm²	-
Nichtrostende Stähle	-
Gusseisen	-
Kupfer	-
Messing - Bronze	-
Aluminium	-
Gold - Silber	-
Platin - Palladium	-
Superlegierungen	-
Titan	-

Toleranzen d_1 : +0/-0.004
D : h5



Erhältlich
beschichtet

Art. n°	d_1	l_1	D	L
300 d0.5x8FC	0.50	8	3	38
300 d1x10FC	1.00	10	3	38
300 d1.5x10FC	1.50	10	3	38
300 d2x10FC	2.00	10	3	38
300 d3x12FC	3.00	12	3	38
300 d6x18FC	6.00	18	6	51

Andere Dimensionen auf Anfrage



Z2



MG

N
HSC

Zentrier & Senkbohrer 90°



Erhältlich unbeschichtet und beschichtet
(Siehe Seite 61)

Werkstoffe	Vc unbeschichtet	Vc beschichtet	Unbeschichtet	beschichtet	Empfohlene Beschichtung
Stahl < 700 N/mm ²	70	80	□	■	Trio
Stahl > 700 N/mm ²	60	70	□	■	Trio
Nichtrostende Stähle	20	40	□	■	Nemo
Gusseisen	60	70	□	■	Nemo
Kupfer	100	130	□	■	Solo
Messing - Bronze	80	120	■	■	Solo
Aluminium	100	120	□	■	Solo
Gold - Silber	80	100	■	■	Solo
Platin - Palladium	-	20	-	□	Solo
Superlegierungen	-	25	-	■	Trio
Titan	40	60	□	■	Rico

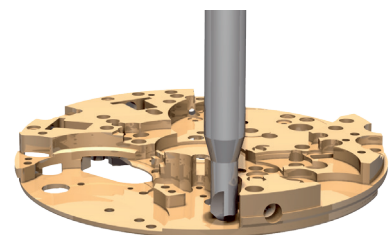
nicht geeignet - geeignet □ sehr geeignet ■

Toleranzen $d_1 \pm 3$ ▶ ± 0.01
 $d_1 = 3$ ▶ h5

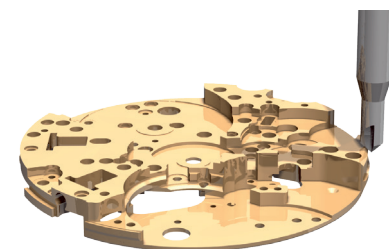
$l_1: +0.2/-0$
D: h5

	Z2
γ 0°	
MG10	N

Art. n°	d_1	l_1	D	L
330-90d0.40	0.40	2.0	3.0	38
330-90d0.50	0.50	2.0	3.0	38
330-90d0.60	0.60	2.0	3.0	38
330-90d0.70	0.70	2.0	3.0	38
330-90d0.80	0.80	2.0	3.0	38
330-90d0.90	0.90	2.0	3.0	38
330-90d1.00	1.00	2.0	3.0	38
330-90d1.10	1.10	2.0	3.0	38
330-90d1.20	1.20	2.0	3.0	38
330-90d1.30	1.30	2.5	3.0	38
330-90d1.40	1.40	2.5	3.0	38
330-90d1.50	1.50	3.0	3.0	38
330-90d1.60	1.60	3.0	3.0	38
330-90d1.70	1.70	3.0	3.0	38
330-90d1.80	1.80	3.0	3.0	38
330-90d1.90	1.90	3.0	3.0	38
330-90d2.00	2.00	4.0	3.0	38
330-90d2.50	2.50	4.5	3.0	38
330-90d3.00	3.00	-	3.0	38



Ankörnen



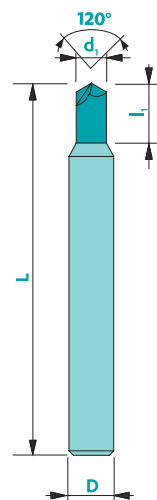
Anfasen

Zentrier & Senkbohrer 120°

Werkstoffe	Vc unbeschichtet	Vc beschichtet	Unbes- chichtet	beschichtet	Empfohlene Beschichtung
Stahl < 700 N/mm²	70	80	□	■	Trio
Stahl > 700 N/mm²	60	70	□	■	Trio
Nichtrostende Stähle	20	40	□	■	Nemo
Gusseisen	60	70	□	■	Nemo
Kupfer	100	130	□	■	Solo
Messing - Bronze	80	120	■	■	Solo
Aluminium	100	120	□	■	Solo
Gold - Silber	80	100	■	■	Solo
Platin - Palladium	-	20	-	□	Solo
Superlegierungen	-	25	-	■	Trio
Titan	40	60	□	■	Rico

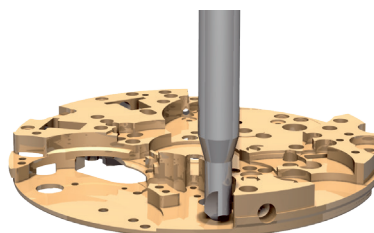
nicht geeignet - geeignet □ sehr geeignet ■

Toleranzen $d_1 \pm 3 \rightarrow +/ - 0.01$ $l_1: +0.2/-0$
 $d_1 = 3 \rightarrow h5$ $D: h5$

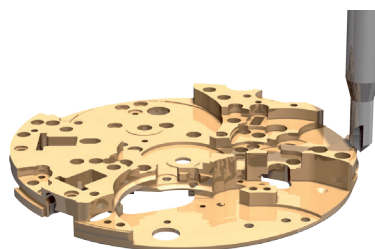


Erhältlich unbeschichtet und beschichtet (Siehe Seite 61)

Art. n°	d_1	l_1	D	L
330-120d0.60	0.60	2.0	3.0	38
330-120d0.70	0.70	2.0	3.0	38
330-120d0.80	0.80	2.0	3.0	38
330-120d0.90	0.90	2.0	3.0	38
330-120d1.00	1.00	2.0	3.0	38
330-120d1.10	1.10	2.0	3.0	38
330-120d1.20	1.20	2.0	3.0	38
330-120d1.30	1.30	2.5	3.0	38
330-120d1.40	1.40	2.5	3.0	38
330-120d1.50	1.50	3.0	3.0	38
330-120d1.60	1.60	3.0	3.0	38
330-120d1.70	1.70	3.0	3.0	38
330-120d1.80	1.80	3.0	3.0	38
330-120d1.90	1.90	3.0	3.0	38
330-120d2.00	2.00	4.0	3.0	38
330-120d2.50	2.50	4.5	3.0	38
330-120d3.00	3.00	-	3.0	38



Ankörnen



Anfasen



120°

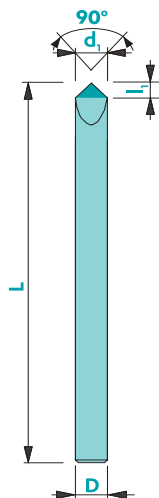
Z2



Y
0°

MG10

N



Erhältlich unbeschichtet und beschichtet
(Siehe Seite 61)

Werkstoffe	Vc unbeschichtet	Vc beschichtet	Unbeschichtet	beschichtet	Empfohlene Beschichtung
Stahl < 700 N/mm ²	-	-	-	-	-
Stahl > 700 N/mm ²	-	-	-	-	-
Nichtrostende Stähle	60	70	□	■	Nemo
Gusseisen	30	35	□	■	Nemo
Kupfer	-	-	-	-	-
Messing - Bronze	80	120	■	■	Solo
Aluminium	-	-	-	-	-
Gold - Silber	-	-	-	-	-
Platin - Palladium	-	-	-	-	-
Superlegierungen	-	25	-	■	Trio
Titan	-	-	-	-	-

nicht geeignet - geeignet □ sehr geeignet ■

Toleranzen $d_1 \leq 3 \rightarrow +/ - 0.01$ $l_1: +0.2/-0$
 $d_1 = 3 \rightarrow h5$ $D: h5$

Art. n°	d_1	l_1	D	L
331-90d0.40	0.40	2.0	3.0	38
331-90d0.50	0.50	2.0	3.0	38
331-90d0.60	0.60	2.0	3.0	38
331-90d0.70	0.70	2.0	3.0	38
331-90d0.80	0.80	2.0	3.0	38
331-90d0.90	0.90	2.0	3.0	38
331-90d1.00	1.00	2.0	3.0	38
331-90d1.10	1.10	2.0	3.0	38
331-90d1.20	1.20	2.0	3.0	38
331-90d1.30	1.30	2.5	3.0	38
331-90d1.40	1.40	2.5	3.0	38
331-90d1.50	1.50	3.0	3.0	38
331-90d1.60	1.60	3.0	3.0	38
331-90d1.70	1.70	3.0	3.0	38
331-90d1.80	1.80	3.0	3.0	38
331-90d1.90	1.90	3.0	3.0	38
331-90d2.00	2.00	4.0	3.0	38
331-90d2.50	2.50	4.5	3.0	38
331-90d3.00	3.00	-	3.0	38



Z2

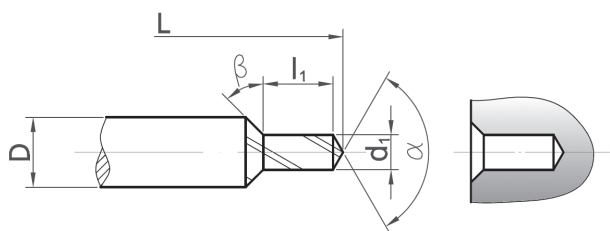
Y
0°

MG10

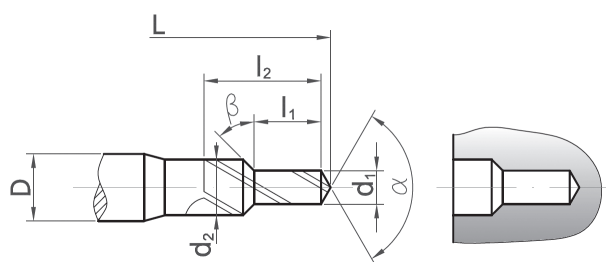
N

Stufenbohrer aus VHM

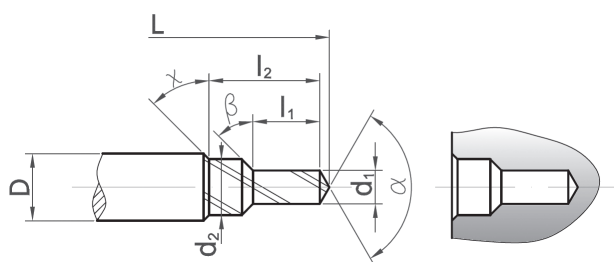
Typ A



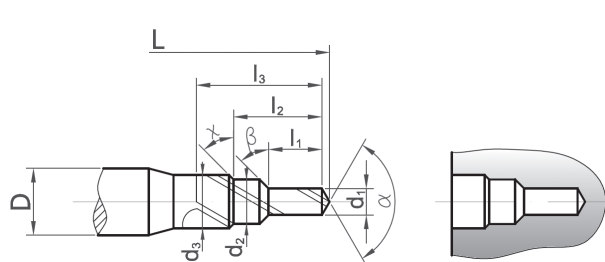
Typ B



Typ C



Typ D

☐ Bestellung ☐ Angebotsanfrage

Typ A

☐ Typ B

Typ C

Typ D

Abmessungen :

D: _____ L: _____ α : _____

$$d_1: \underline{\hspace{1cm}} \quad l_1: \underline{\hspace{1cm}} \quad \beta: \underline{\hspace{1cm}}$$

d_2 : _____ l_2 : _____ X : _____

d_3 : _____ l_3 : _____ Z : ☐ 1 ☐ 2
☐ 3

Winkel :

- ☐ 24° für Messing und Stahl
- ☐ 34° für Nichtrostende Stähle, Kunststoffe und Aluminium

Kühlkanälen ?

☐ Ja

☐ Nein

Menge :

Beschichtungen :

☐ Unbeschichtet

☐ Beschichtet * :

Werkstoffe zum spanen :

Bestellungs-Nr. :

Stempel des Unternehmens & Datum :

Kontakt Person :

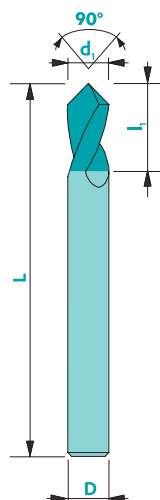
Standart Dimension vom Stab :

Ø 3x L 38, Ø 4x L 38, Ø 6x L 38, Ø 6x L 51, Ø 8x L 61, Ø 10x L 72, Ø 12x L 83, Ø 16x L 92, Ø 20x L 104

* Ohne weitere Angaben wird die am besten angepasste Beschichtung angebracht.



Erhältlich unbeschichtet und beschichtet
(Siehe Seite 61)



Werkstoffe

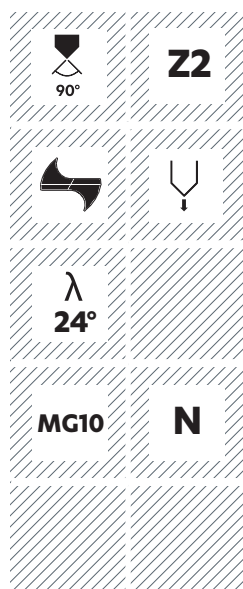
	Vc unbeschichtet	Vc beschichtet	Unbes- chichtet	beschichtet	Empfohlene Beschichtung
Stahl < 700 N/mm ²	70	80	□	■	Trio
Stahl > 700 N/mm ²	60	70	□	■	Trio
Nichtrostende Stähle	20	40	□	■	Nemo
Gusseisen	60	70	□	■	Nemo
Kupfer	100	130	□	■	Solo
Messing - Bronze	80	120	■	■	Solo
Aluminium	100	120	□	■	Solo
Gold - Silber	80	100	■	■	Solo
Platin - Palladium	-	20	-	□	Solo
Superlegierungen	-	25	-	■	Trio
Titan	40	60	□	■	Rico

nicht geeignet - geeignet □ sehr geeignet ■

Toleranzen

$d_1 \leq 1 \text{ mm}$ ▶ +0/-0.01
 $d_1 > 1 \text{ mm}$ ▶ +0/-0.02
 $d_1 = D$ ▶ $d_1: e8$

D: h5



Art. n°	d_1	l_1	D	L
337d0.40	0.40	2.0	2.0	38
337d0.50	0.50	2.0	2.0	38
337d0.55	0.55	2.0	2.0	38
337d0.60	0.60	2.0	2.0	38
337d0.65	0.65	2.0	2.0	38
337d0.70	0.70	2.0	2.0	38
337d0.75	0.75	2.0	2.0	38
337d0.80	0.80	3.0	2.0	38
337d0.85	0.85	3.0	2.0	38
337d0.90	0.90	3.0	2.0	38
337d0.95	0.95	3.0	2.0	38
337d1.00	1.00	3.0	2.0	38
337d1.05	1.05	3.0	2.0	38
337d1.10	1.10	3.0	2.0	38
337d1.15	1.15	3.0	2.0	38
337d1.20	1.20	3.0	2.0	38
337d1.25	1.25	3.0	2.0	38
337d1.30	1.30	3.0	2.0	38
337d1.35	1.35	3.0	2.0	38
337d1.40	1.40	3.0	2.0	38
337d1.45	1.45	3.0	2.0	38
337d1.50	1.50	5.0	2.0	38
337d1.60	1.60	5.0	2.0	38
337d1.70	1.70	5.0	2.0	38
337d1.80	1.80	5.0	2.0	38
337d1.90	1.90	5.0	2.0	38
337d2.00	2.00	8.0	2.0	38

Art. n°	d_1	l_1	D	L
337d2.50	2.50	8.0	2.5	38
337d3.00	3.00	10.0	3.0	44
337d4.00	4.00	12.0	4.0	50
337d5.00	5.00	12.0	5.0	50
337d6.00	6.00	15.0	6.0	61
337d8.00	8.00	20.0	8.0	72
337d10.00	10.00	20.0	10.0	72
337d12.00	12.00	25.0	12.0	83
337d16.00	16.00	25.0	16.0	83
337d20.00	20.00	35.0	20.0	104

NC Anbohrer 90° - linksschneidend

337-1

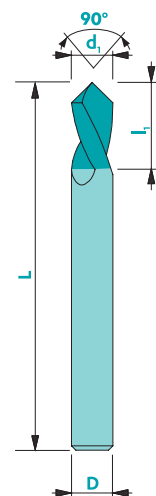
Werkstoffe	Vc unbeschichtet	Vc beschichtet	Unbes- chichtet	beschichtet	Empfohlene Beschichtung
Stahl < 700 N/mm ²	70	80	□	■	Trio
Stahl > 700 N/mm ²	60	70	□	■	Trio
Nichtrostende Stähle	20	40	□	■	Nemo
Gusseisen	60	70	□	■	Nemo
Kupfer	100	130	□	■	Solo
Messing - Bronze	80	120	■	■	Solo
Aluminium	100	120	□	■	Solo
Gold - Silber	80	100	■	■	Solo
Platin - Palladium	-	20	-	□	Solo
Superlegierungen	-	25	-	■	Trio
Titan	40	60	□	■	Rico

nicht geeignet - geeignet □ sehr geeignet ■

Toleranzen

$d_1 \leq 1 \text{ mm}$ ▶ +0/-0.01
 $d_1 > 1 \text{ mm}$ ▶ +0/-0.02
 $d_1 = D$ ▶ $d_1: e8$

D: h5



Erhältlich unbeschichtet und beschichtet (Siehe Seite 61)

Art. n°	d_1	l_1	D	L
337-1d0.80	0.80	3.0	2.0	38
337-1d0.90	0.90	3.0	2.0	38
337-1d1.00	1.00	3.0	2.0	38
337-1d1.10	1.10	3.0	2.0	38
337-1d1.20	1.20	3.0	2.0	38
337-1d1.30	1.30	3.0	2.0	38
337-1d1.40	1.40	3.0	2.0	38
337-1d1.50	1.50	5.0	2.0	38
337-1d1.60	1.60	5.0	2.0	38
337-1d1.70	1.70	5.0	2.0	38
337-1d1.80	1.80	5.0	2.0	38
337-1d1.90	1.90	5.0	2.0	38
337-1d2.00	2.00	8.0	2.0	38
337-1d2.50	2.50	8.0	2.5	38
337-1d3.00	3.00	10.0	3.0	44
337-1d4.00	4.00	12.0	4.0	50
337-1d5.00	5.00	12.0	5.0	50
337-1d6.00	6.00	15.0	6.0	61
337-1d8.00	8.00	20.0	8.0	72
337-1d10.00	10.00	20.0	10.0	72



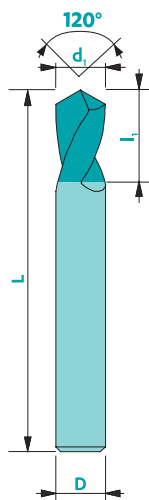
Z2



**λ
24°**

MG10

N

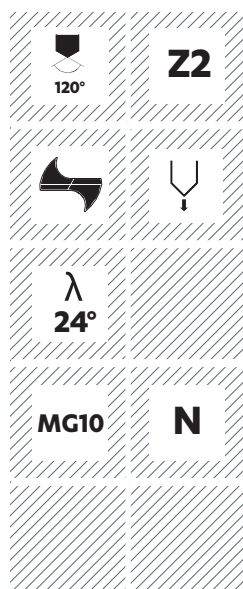


Erhältlich unbeschichtet und beschichtet
(Siehe Seite 61)

Werkstoffe	Vc unbeschichtet	Vc beschichtet	Unbes- chichtet	beschichtet	Empfohlene Beschichtung
Stahl < 700 N/mm ²	70	80	□	■	Trio
Stahl > 700 N/mm ²	60	70	□	■	Trio
Nichtrostende Stähle	20	40	□	■	Nemo
Gusseisen	60	70	□	■	Nemo
Kupfer	100	130	□	■	Solo
Messing - Bronze	80	120	■	■	Solo
Aluminium	100	120	□	■	Solo
Gold - Silber	80	100	■	■	Solo
Platin - Palladium	-	20	-	□	Solo
Superlegierungen	-	25	-	■	Trio
Titan	40	60	□	■	Rico

nicht geeignet - geeignet □ sehr geeignet ■

Toleranzen $d_1 \leq 1 \text{ mm} \rightarrow +0/-0.01$ $D: h5$
 $d_1 > 1 \text{ mm} \rightarrow +0/-0.02$
 $d_1 = D \rightarrow d_1: e8$



Art. n°	d ₁	I ₁	D	L
337-2d0.50	0.50	2.0	2.0	38
337-2d0.55	0.55	2.0	2.0	38
337-2d0.60	0.60	2.0	2.0	38
337-2d0.65	0.65	2.0	2.0	38
337-2d0.70	0.70	2.0	2.0	38
337-2d0.75	0.75	2.0	2.0	38
337-2d0.80	0.80	3.0	2.0	38
337-2d0.85	0.85	3.0	2.0	38
337-2d0.90	0.90	3.0	2.0	38
337-2d0.95	0.95	3.0	2.0	38
337-2d1.00	1.00	3.0	2.0	38
337-2d1.05	1.05	3.0	2.0	38
337-2d1.10	1.10	3.0	2.0	38
337-2d1.15	1.15	3.0	2.0	38
337-2d1.20	1.20	3.0	2.0	38
337-2d1.25	1.25	3.0	2.0	38
337-2d1.30	1.30	3.0	2.0	38
337-2d1.35	1.35	3.0	2.0	38
337-2d1.40	1.40	3.0	2.0	38
337-2d1.45	1.45	3.0	2.0	38
337-2d1.50	1.50	5.0	2.0	38
337-2d1.60	1.60	5.0	2.0	38
337-2d1.70	1.70	5.0	2.0	38
337-2d1.80	1.80	5.0	2.0	38
337-2d1.90	1.90	5.0	2.0	38
337-2d2.00	2.00	8.0	2.0	38
337-2d2.50	2.50	8.0	2.5	38

Art. n°	d ₁	I ₁	D	L
337-2d3.00	3.00	10.0	3.0	44
337-2d4.00	4.00	12.0	4.0	50
337-2d5.00	5.00	12.0	5.0	50
337-2d6.00	6.00	15.0	6.0	61
337-2d8.00	8.00	20.0	8.0	72
337-2d10.00	10.00	20.0	10.0	72
337-2d12.00	12.00	25.0	12.0	83
337-2d16.00	16.00	25.0	16.0	83
337-2d20.00	20.00	35.0	20.0	104

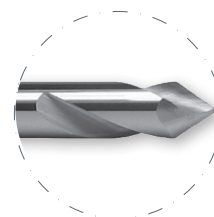
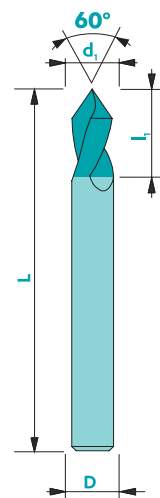
NC Anbohrer 60°

337-3

Werkstoffe	Vc unbeschichtet	Vc beschichtet	Unbes- chichtet	beschichtet	Empfohlene Beschichtung
Stahl < 700 N/mm²	70	80	□	■	Trio
Stahl > 700 N/mm²	60	70	□	■	Trio
Nichtrostende Stähle	20	40	□	■	Nemo
Gusseisen	60	70	□	■	Nemo
Kupfer	100	130	□	■	Solo
Messing - Bronze	80	120	■	■	Solo
Aluminium	100	120	□	■	Solo
Gold - Silber	80	100	■	■	Solo
Platin - Palladium	-	20	-	□	Solo
Superlegierungen	-	25	-	■	Trio
Titan	40	60	□	■	Rico

nicht geeignet - geeignet □ sehr geeignet ■

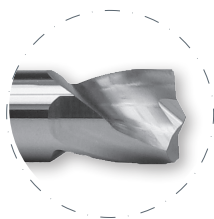
Toleranzen $d_1 \leq 1 \text{ mm} \rightarrow +0/-0.01$ $D: h5$
 $d_1 > 1 \text{ mm} \rightarrow +0/-0.02$
 $d_1 = D \rightarrow d_1: e8$



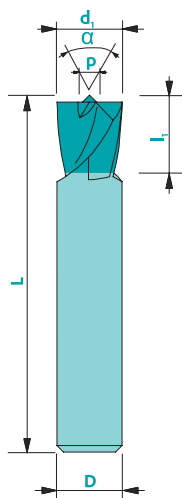
Erhältlich unbeschichtet und beschichtet (Siehe Seite 61)

Art. n°	d_1	l_1	D	L
337-3d0.50	0.50	3.0	2.0	38
337-3d0.60	0.60	3.0	2.0	38
337-3d0.70	0.70	3.0	2.0	38
337-3d0.80	0.80	3.0	2.0	38
337-3d0.90	0.90	3.0	2.0	38
337-3d1.00	1.00	3.0	2.0	38
337-3d1.10	1.10	3.0	2.0	38
337-3d1.20	1.20	3.0	2.0	38
337-3d1.30	1.30	3.0	2.0	38
337-3d1.40	1.40	3.0	2.0	38
337-3d1.50	1.50	5.0	2.0	38
337-3d1.60	1.60	5.0	2.0	38
337-3d1.70	1.70	5.0	2.0	38
337-3d1.80	1.80	5.0	2.0	38
337-3d1.90	1.90	5.0	2.0	38
337-3d2.00	2.00	8.0	2.0	38
337-3d2.50	2.50	8.0	2.5	38
337-3d3.00	3.00	10.0	3.0	44
337-3d4.00	4.00	12.0	4.0	50
337-3d5.00	5.00	12.0	5.0	50
337-3d6.00	6.00	15.0	6.0	61
337-3d8.00	8.00	20.0	8.0	72
337-3d10.00	10.00	20.0	10.0	72
337-3d12.00	12.00	25.0	12.0	83
337-3d16.00	16.00	25.0	16.0	83
337-3d20.00	20.00	35.0	20.0	104

	Z2
λ 24°	
MG10	N



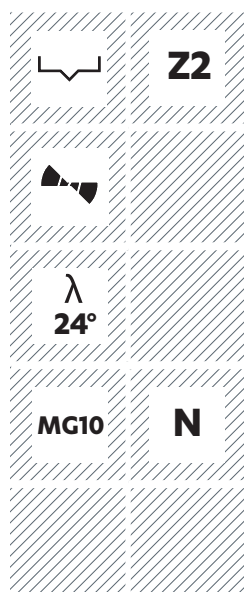
Erhältlich unbeschichtet und beschichtet
(Siehe Seite 61)



Werkstoffe	Vc unbeschichtet	Vc beschichtet	Unbes- chichtet	beschichtet	Empfohlene Beschichtung
Stahl < 700 N/mm ²	70	80	□	■	Trio
Stahl > 700 N/mm ²	60	70	□	■	Trio
Nichtrostende Stähle	20	40	□	■	Nemo
Gusseisen	60	70	□	■	Nemo
Kupfer	100	130	□	■	Solo
Messing - Bronze	80	120	■	■	Solo
Aluminium	100	120	□	■	Solo
Gold - Silber	80	100	■	■	Solo
Platin - Palladium	-	20	-	□	Solo
Superlegierungen	-	25	-	■	Trio
Titan	40	60	□	■	Rico

nicht geeignet - geeignet □ sehr geeignet ■

Toleranzen $d_1 \leq 1 \text{ mm} \rightarrow +0/-0.01$ $D: h5$
 $d_1 > 1 \text{ mm} \rightarrow +0/-0.02$
 $d_1 = D \rightarrow d_1: e8$



Art. n°	d ₁	L ₁	D	L
338d2.00	2.00	8.0	3	33
338d2.10	2.10	8.0	3	33
338d2.20	2.20	8.0	3	33
338d2.30	2.30	8.0	3	33
338d2.40	2.40	8.0	3	33
338d2.50	2.50	8.0	3	33
338d2.60	2.60	8.0	3	33
338d2.70	2.70	8.0	3	33
338d2.80	2.80	8.0	3	33
338d2.90	2.90	8.0	3	33
338d3.00	3.00	8.0	3	33
338d3.10	3.10	8.0	4	33
338d3.20	3.20	8.0	4	33
338d3.30	3.30	8.0	4	33
338d3.40	3.40	8.0	4	33
338d3.50	3.50	8.0	4	33
338d3.60	3.60	8.0	4	33
338d3.70	3.70	8.0	4	33
338d3.80	3.80	8.0	4	33
338d3.90	3.90	8.0	4	33
338d4.00	4.00	8.0	4	33
338d4.10	4.10	8.0	5	33
338d4.20	4.20	8.0	5	33
338d4.30	4.30	8.0	5	33
338d4.40	4.40	8.0	5	33
338d4.50	4.50	8.0	5	33
338d4.60	4.60	8.0	5	33
338d4.70	4.70	8.0	5	33
338d4.80	4.80	8.0	5	33

Art. n°	d ₁	L ₁	D	L
338d4.90	4.90	8.0	5	33
338d5.00	5.00	8.0	5	33
338d5.10	5.10	8.0	6	33
338d5.20	5.20	8.0	6	33
338d5.30	5.30	8.0	6	33
338d5.40	5.40	8.0	6	33
338d5.50	5.50	8.0	6	33
338d5.60	5.60	8.0	6	33
338d5.70	5.70	8.0	6	33
338d5.80	5.80	8.0	6	33
338d5.90	5.90	8.0	6	33
338d6.00	6.00	8.0	6	33
338d6.50	6.50	8.0	7	33
338d7.00	7.00	8.0	7	33
338d7.50	7.50	8.0	8	33
338d8.00	8.00	8.0	8	33

Zentrierspitze Durchmesser*:

Ø P: _____

Zentrierspitze Winkel (α)*:

☐ 90°

☐ 120°

☐ Andere: _____

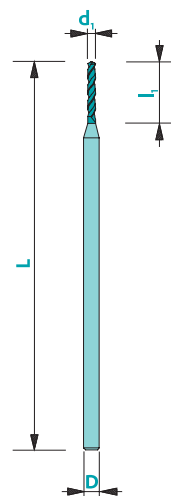
* Sofern nichts anderes festgelegt wird das Durchmesser von der Zentrierspitze 1/3 von d₁ und der Winkel 120°

Mikrobohrer - Helix 24°

Werkstoffe	Vc unbeschichtet	Vc beschichtet	Unbes- chichtet	beschichtet	Empfohlene Beschichtung
Stahl < 700 N/mm²	70	80	□	■	Trio
Stahl > 700 N/mm²	60	70	□	■	Trio
Nichtrostende Stähle	20	40	□	□	Nemo
Gusseisen	60	70	□	■	Nemo
Kupfer	100	130	□	□	Solo
Messing - Bronze	80	120	■	■	Solo
Aluminium	100	120	□	■	Solo
Gold - Silber	80	100	■	■	Solo
Platin - Palladium	-	20	-	□	Solo
Superlegierungen	-	25	-	■	Trio
Titan	40	60	□	□	Rico

nicht geeignet - geeignet □ sehr geeignet ■

Toleranzen d_1 : -0.002/-0.004
D: h5



Erhältlich unbeschichtet und beschichtet (Siehe Seite 61)

Art. n°	d_1	l_1	D	L
339d0.05	0.05	0.35	1	30
339d0.06	0.06	0.40	1	30
339d0.07	0.07	0.50	1	30
339d0.08	0.08	0.60	1	30
339d0.09	0.09	0.65	1	30
339d0.10	0.10	0.70	1	30
339d0.11	0.11	0.70	1	30
339d0.12	0.12	0.70	1	30
339d0.13	0.13	0.70	1	30
339d0.14	0.14	0.70	1	30
339d0.15	0.15	1.00	1	30
339d0.16	0.16	1.00	1	30
339d0.17	0.17	1.00	1	30
339d0.18	0.18	1.00	1	30
339d0.19	0.19	1.00	1	30
339d0.20	0.20	1.00	1	30
339d0.21	0.21	1.00	1	30
339d0.22	0.22	1.00	1	30
339d0.23	0.23	1.00	1	30
339d0.24	0.24	1.00	1	30
339d0.25	0.25	1.00	1	30
339d0.26	0.26	1.00	1	30
339d0.27	0.27	1.00	1	30
339d0.28	0.28	1.00	1	30
339d0.29	0.29	1.00	1	30
339d0.30	0.30	1.50	1	30

Art. n°	d_1	l_1	D	L
339d0.31	0.31	1.50	1	30
339d0.32	0.32	1.50	1	30
339d0.33	0.33	1.50	1	30
339d0.34	0.34	1.50	1	30
339d0.35	0.35	1.50	1	30
339d0.36	0.36	1.50	1	30
339d0.37	0.37	1.50	1	30
339d0.38	0.38	1.50	1	30
339d0.39	0.39	1.50	1	30
339d0.40	0.40	2.00	1	30
339d0.41	0.41	2.00	1	30
339d0.42	0.42	2.00	1	30
339d0.43	0.43	2.00	1	30
339d0.44	0.44	2.00	1	30
339d0.45	0.45	3.50	1	30
339d0.46	0.46	3.50	1	30
339d0.47	0.47	3.50	1	30
339d0.48	0.48	3.50	1	30
339d0.49	0.49	4.00	1	30
339d0.50	0.50	4.00	1	30



118°

Z2



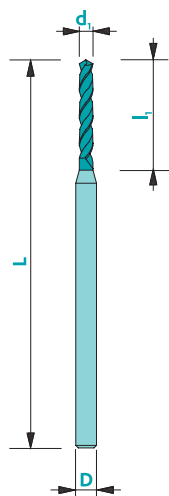
λ
24°

MG10

N



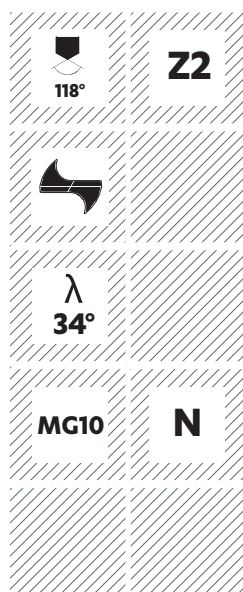
Erhältlich unbeschichtet und beschichtet
(Siehe Seite 61)



Werkstoffe	Vc unbeschichtet	Vc beschichtet	Unbes- chichtet	beschichtet	Empfohlene Beschichtung
Stahl < 700 N/mm²	70	80	□	■	Trio
Stahl > 700 N/mm²	60	70	□	■	Trio
Nichtrostende Stähle	20	40	□	■	Nemo
Gusseisen	60	70	□	■	Nemo
Kupfer	100	130	□	■	Solo
Messing - Bronze	80	120	■	■	Solo
Aluminium	100	120	■	■	Solo
Gold - Silber	80	100	□	□	Solo
Platin - Palladium	-	20	-	□	Solo
Superlegierungen	-	25	-	□	Trio
Titan	40	60	□	□	Rico

nicht geeignet - geeignet □ sehr geeignet ■

Toleranzen d_1 : -0.002/-0.004
D: h5



Art. n°	d_1	l_1	D	L
340d0.50	0.50	4.0	1.5	30
340d0.51	0.51	4.0	1.5	30
340d0.52	0.52	4.0	1.5	30
340d0.53	0.53	4.0	1.5	30
340d0.54	0.54	4.0	1.5	30
340d0.55	0.55	4.0	1.5	30
340d0.56	0.56	4.0	1.5	30
340d0.57	0.57	4.0	1.5	30
340d0.58	0.58	4.0	1.5	30
340d0.59	0.59	4.0	1.5	30
340d0.60	0.60	5.0	1.5	30
340d0.61	0.61	5.0	1.5	30
340d0.62	0.62	5.0	1.5	30
340d0.63	0.63	5.0	1.5	30
340d0.64	0.64	5.0	1.5	30
340d0.65	0.65	5.0	1.5	30
340d0.66	0.66	5.0	1.5	30
340d0.67	0.67	5.0	1.5	30
340d0.68	0.68	5.0	1.5	30
340d0.69	0.69	5.0	1.5	30
340d0.70	0.70	5.0	1.5	30
340d0.71	0.71	5.0	1.5	30
340d0.72	0.72	5.0	1.5	30
340d0.73	0.73	5.0	1.5	30
340d0.74	0.74	5.0	1.5	30
340d0.75	0.75	5.0	1.5	30
340d0.76	0.76	5.0	1.5	30
340d0.77	0.77	5.0	1.5	30
340d0.78	0.78	5.0	1.5	30
340d0.79	0.79	5.0	1.5	30
340d0.80	0.80	6.0	1.5	30

Art. n°	d_1	l_1	D	L
340d0.81	0.81	6.0	1.5	30
340d0.82	0.82	6.0	1.5	30
340d0.83	0.83	6.0	1.5	30
340d0.84	0.84	6.0	1.5	30
340d0.85	0.85	6.0	1.5	30
340d0.86	0.86	6.0	1.5	30
340d0.87	0.87	6.0	1.5	30
340d0.88	0.88	6.0	1.5	30
340d0.89	0.89	6.0	1.5	30
340d0.90	0.90	7.0	1.5	30
340d0.91	0.91	7.0	1.5	30
340d0.92	0.92	7.0	1.5	30
340d0.93	0.93	7.0	1.5	30
340d0.94	0.94	7.0	1.5	30
340d0.95	0.95	7.0	1.5	30
340d0.96	0.96	7.0	1.5	30
340d0.97	0.97	7.0	1.5	30
340d0.98	0.98	7.0	1.5	30
340d0.99	0.99	7.0	1.5	30
340d1.00	1.00	8.0	1.5	30
340d1.01	1.01	8.0	1.5	30
340d1.02	1.02	8.0	1.5	30
340d1.03	1.03	8.0	1.5	30
340d1.04	1.04	8.0	1.5	30
340d1.05	1.05	8.0	1.5	30
340d1.06	1.06	8.0	1.5	30
340d1.07	1.07	8.0	1.5	30
340d1.08	1.08	8.0	1.5	30



Mikrobohrer - Helix 34°

340

Folge

Art. n°	d ₁	l ₁	D	L
340d1.09	1.09	8.0	1.5	30
340d1.10	1.10	9.0	1.5	30
340d1.11	1.11	9.0	1.5	30
340d1.12	1.12	9.0	1.5	30
340d1.13	1.13	9.0	1.5	30
340d1.14	1.14	9.0	1.5	30
340d1.15	1.15	9.0	1.5	30
340d1.16	1.16	9.0	1.5	30
340d1.17	1.17	9.0	1.5	30
340d1.18	1.18	9.0	1.5	30
340d1.19	1.19	9.0	1.5	30
340d1.20	1.20	10.0	1.5	30
340d1.21	1.21	10.0	1.5	30
340d1.22	1.22	10.0	1.5	30
340d1.23	1.23	10.0	1.5	30
340d1.24	1.24	10.0	1.5	30
340d1.25	1.25	10.0	1.5	30
340d1.26	1.26	10.0	1.5	30
340d1.27	1.27	10.0	1.5	30
340d1.28	1.28	10.0	1.5	30
340d1.29	1.29	10.0	1.5	30
340d1.30	1.30	10.0	1.5	30
340d1.31	1.31	10.0	1.5	30
340d1.32	1.32	10.0	1.5	30
340d1.33	1.33	10.0	1.5	30
340d1.34	1.34	10.0	1.5	30
340d1.35	1.35	11.0	1.5	30
340d1.36	1.36	11.0	1.5	30
340d1.37	1.37	11.0	1.5	30
340d1.38	1.38	11.0	1.5	30
340d1.39	1.39	11.0	1.5	30
340d1.40	1.40	11.0	1.5	30
340d1.41	1.41	11.0	1.5	30
340d1.42	1.42	11.0	1.5	30
340d1.43	1.43	11.0	1.5	30
340d1.44	1.44	11.0	1.5	30
340d1.45	1.45	11.0	1.5	30
340d1.46	1.46	11.0	1.5	30
340d1.47	1.47	11.0	1.5	30
340d1.48	1.48	11.0	1.5	30
340d1.49	1.49	11.0	1.5	30



Erhältlich unbeschichtet und beschichtet
(Siehe Seite 61)



118°

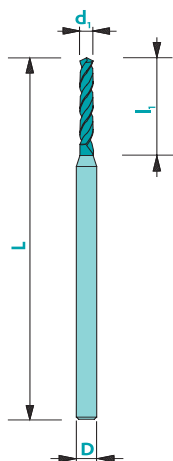
Z2



λ
34°

MC10

N

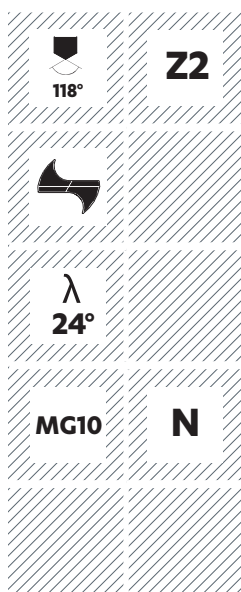


Erhältlich unbeschichtet und beschichtet
(Siehe Seite 61)

Werkstoffe	Vc unbeschichtet	Vc beschichtet	Unbeschichtet	beschichtet	Empfohlene Beschichtung
Stahl < 700 N/mm²	70	80	□	■	Trio
Stahl > 700 N/mm²	60	70	□	■	Trio
Nichtrostende Stähle	20	40	□	□	Nemo
Gusseisen	60	70	□	■	Nemo
Kupfer	100	130	□	□	Solo
Messing - Bronze	80	120	■	■	Solo
Aluminium	100	120	□	■	Solo
Gold - Silber	80	100	■	■	Solo
Platin - Palladium	-	20	-	□	Solo
Superlegierungen	-	25	-	■	Trio
Titan	40	60	□	□	Rico

nicht geeignet - geeignet □ sehr geeignet ■

Toleranzen d₁: -0.002/-0.004
D: h5



Art. n°	d ₁	l ₁	D	L
340-1d0.40	0.40	3.0	1.5	30
340-1d0.41	0.41	3.0	1.5	30
340-1d0.42	0.42	3.0	1.5	30
340-1d0.43	0.43	3.0	1.5	30
340-1d0.44	0.44	3.0	1.5	30
340-1d0.45	0.45	3.0	1.5	30
340-1d0.46	0.46	3.0	1.5	30
340-1d0.47	0.47	3.0	1.5	30
340-1d0.48	0.48	3.0	1.5	30
340-1d0.49	0.49	3.0	1.5	30
340-1d0.50	0.50	4.0	1.5	30
340-1d0.51	0.51	4.0	1.5	30
340-1d0.52	0.52	4.0	1.5	30
340-1d0.53	0.53	4.0	1.5	30
340-1d0.54	0.54	4.0	1.5	30
340-1d0.55	0.55	4.0	1.5	30
340-1d0.56	0.56	4.0	1.5	30
340-1d0.57	0.57	4.0	1.5	30
340-1d0.58	0.58	4.0	1.5	30
340-1d0.59	0.59	4.0	1.5	30
340-1d0.60	0.60	5.0	1.5	30
340-1d0.61	0.61	5.0	1.5	30
340-1d0.62	0.62	5.0	1.5	30
340-1d0.63	0.63	5.0	1.5	30
340-1d0.64	0.64	5.0	1.5	30
340-1d0.65	0.65	5.0	1.5	30
340-1d0.66	0.66	5.0	1.5	30
340-1d0.67	0.67	5.0	1.5	30
340-1d0.68	0.68	5.0	1.5	30
340-1d0.69	0.69	5.0	1.5	30
340-1d0.70	0.70	5.0	1.5	30

Art. n°	d ₁	l ₁	D	L
340-1d0.71	0.71	5.0	1.5	30
340-1d0.72	0.72	5.0	1.5	30
340-1d0.73	0.73	5.0	1.5	30
340-1d0.74	0.74	5.0	1.5	30
340-1d0.75	0.75	5.0	1.5	30
340-1d0.76	0.76	5.0	1.5	30
340-1d0.77	0.77	5.0	1.5	30
340-1d0.78	0.78	5.0	1.5	30
340-1d0.79	0.79	5.0	1.5	30
340-1d0.80	0.80	6.0	1.5	30
340-1d0.81	0.81	6.0	1.5	30
340-1d0.82	0.82	6.0	1.5	30
340-1d0.83	0.83	6.0	1.5	30
340-1d0.84	0.84	6.0	1.5	30
340-1d0.85	0.85	6.0	1.5	30
340-1d0.86	0.86	6.0	1.5	30
340-1d0.87	0.87	6.0	1.5	30
340-1d0.88	0.88	6.0	1.5	30
340-1d0.89	0.89	6.0	1.5	30
340-1d0.90	0.90	7.0	1.5	30
340-1d0.91	0.91	7.0	1.5	30
340-1d0.92	0.92	7.0	1.5	30
340-1d0.93	0.93	7.0	1.5	30
340-1d0.94	0.94	7.0	1.5	30
340-1d0.95	0.95	7.0	1.5	30
340-1d0.96	0.96	7.0	1.5	30
340-1d0.97	0.97	7.0	1.5	30
340-1d0.98	0.98	7.0	1.5	30
340-1d0.99	0.99	7.0	1.5	30



Bohrer - Helix 24°

340-1

Folge

Art. n°	d ₁	l ₁	D	L	Art. n°	d ₁	l ₁	D	L
340-1d1.00	1.00	8.0	1.5	30	340-1d1.44	1.44	11.0	1.5	30
340-1d1.01	1.01	8.0	1.5	30	340-1d1.45	1.45	11.0	1.5	30
340-1d1.02	1.02	8.0	1.5	30	340-1d1.46	1.46	11.0	1.5	30
340-1d1.03	1.03	8.0	1.5	30	340-1d1.47	1.47	11.0	1.5	30
340-1d1.04	1.04	8.0	1.5	30	340-1d1.48	1.48	11.0	1.5	30
340-1d1.05	1.05	8.0	1.5	30	340-1d1.49	1.49	11.0	1.5	30
340-1d1.06	1.06	8.0	1.5	30	340-1d1.50	1.50	12.0	2.0	38
340-1d1.07	1.07	8.0	1.5	30	340-1d1.51	1.51	12.0	2.0	38
340-1d1.08	1.08	8.0	1.5	30	340-1d1.52	1.52	12.0	2.0	38
340-1d1.09	1.09	8.0	1.5	30	340-1d1.53	1.53	12.0	2.0	38
340-1d1.10	1.10	9.0	1.5	30	340-1d1.54	1.54	12.0	2.0	38
340-1d1.11	1.11	9.0	1.5	30	340-1d1.55	1.55	12.0	2.0	38
340-1d1.12	1.12	9.0	1.5	30	340-1d1.56	1.56	12.0	2.0	38
340-1d1.13	1.13	9.0	1.5	30	340-1d1.57	1.57	12.0	2.0	38
340-1d1.14	1.14	9.0	1.5	30	340-1d1.58	1.58	12.0	2.0	38
340-1d1.15	1.15	9.0	1.5	30	340-1d1.59	1.59	12.0	2.0	38
340-1d1.16	1.16	9.0	1.5	30	340-1d1.60	1.60	12.0	2.0	38
340-1d1.17	1.17	9.0	1.5	30	340-1d1.61	1.61	12.0	2.0	38
340-1d1.18	1.18	9.0	1.5	30	340-1d1.62	1.62	12.0	2.0	38
340-1d1.19	1.19	9.0	1.5	30	340-1d1.63	1.63	12.0	2.0	38
340-1d1.20	1.20	10.0	1.5	30	340-1d1.64	1.64	12.0	2.0	38
340-1d1.21	1.21	10.0	1.5	30	340-1d1.65	1.65	12.0	2.0	38
340-1d1.22	1.22	10.0	1.5	30	340-1d1.66	1.66	12.0	2.0	38
340-1d1.23	1.23	10.0	1.5	30	340-1d1.67	1.67	12.0	2.0	38
340-1d1.24	1.24	10.0	1.5	30	340-1d1.68	1.68	12.0	2.0	38
340-1d1.25	1.25	10.0	1.5	30	340-1d1.69	1.69	12.0	2.0	38
340-1d1.26	1.26	10.0	1.5	30	340-1d1.70	1.70	12.0	2.0	38
340-1d1.27	1.27	10.0	1.5	30	340-1d1.71	1.71	12.0	2.0	38
340-1d1.28	1.28	10.0	1.5	30	340-1d1.72	1.72	12.0	2.0	38
340-1d1.29	1.29	10.0	1.5	30	340-1d1.73	1.73	12.0	2.0	38
340-1d1.30	1.30	10.0	1.5	30	340-1d1.74	1.74	12.0	2.0	38
340-1d1.31	1.31	10.0	1.5	30	340-1d1.75	1.75	12.0	2.0	38
340-1d1.32	1.32	10.0	1.5	30	340-1d1.76	1.76	12.0	2.0	38
340-1d1.33	1.33	10.0	1.5	30	340-1d1.77	1.77	12.0	2.0	38
340-1d1.34	1.34	10.0	1.5	30	340-1d1.78	1.78	12.0	2.0	38
340-1d1.35	1.35	11.0	1.5	30	340-1d1.79	1.79	12.0	2.0	38
340-1d1.36	1.36	11.0	1.5	30	340-1d1.80	1.80	12.0	2.0	38
340-1d1.37	1.37	11.0	1.5	30	340-1d1.81	1.81	12.0	2.0	38
340-1d1.38	1.38	11.0	1.5	30	340-1d1.82	1.82	12.0	2.0	38
340-1d1.39	1.39	11.0	1.5	30	340-1d1.83	1.83	12.0	2.0	38
340-1d1.40	1.40	11.0	1.5	30	340-1d1.84	1.84	12.0	2.0	38
340-1d1.41	1.41	11.0	1.5	30	340-1d1.85	1.85	12.0	2.0	38
340-1d1.42	1.42	11.0	1.5	30	340-1d1.86	1.86	12.0	2.0	38
340-1d1.43	1.43	11.0	1.5	30	340-1d1.87	1.87	12.0	2.0	38



Erhältlich unbeschichtet und beschichtet
(Siehe Seite 61)

118°

Z2



λ
24°

MC10

N

340-1

Folge

Bohrer - Helix 24°



Erhältlich unbeschichtet und beschichtet
(Siehe Seite 61)


118°

Z2



λ
24°

MC10

N

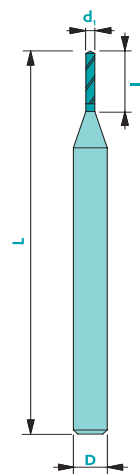
Art. n°	d ₁	l ₁	D	L
340-1d1.88	1.88	12.0	2.0	38
340-1d1.89	1.89	12.0	2.0	38
340-1d1.90	1.90	12.0	2.0	38
340-1d1.91	1.91	12.0	2.0	38
340-1d1.92	1.92	12.0	2.0	38
340-1d1.93	1.93	12.0	2.0	38
340-1d1.94	1.94	12.0	2.0	38
340-1d1.95	1.95	12.0	2.0	38
340-1d1.96	1.96	12.0	2.0	38
340-1d1.97	1.97	12.0	2.0	38
340-1d1.98	1.98	12.0	2.0	38
340-1d1.99	1.99	12.0	2.0	38

Mikrobohrer Helix 34° - Schaft Ø3

Werkstoffe	Vc unbeschichtet	Vc beschichtet	Unbes- chichtet	beschichtet	Empfohlene Beschichtung
Stahl < 700 N/mm ²	70	80	□	■	Trio
Stahl > 700 N/mm ²	60	70	□	■	Trio
Nichtrostende Stähle	20	40	□	■	Nemo
Gusseisen	60	70	□	■	Nemo
Kupfer	100	130	□	■	Solo
Messing - Bronze	80	120	■	■	Solo
Aluminium	100	120	■	■	Solo
Gold - Silber	80	100	□	□	Solo
Platin - Palladium	-	20	-	□	Solo
Superlegierungen	-	25	-	□	Trio
Titan	40	60	□	□	Rico

nicht geeignet - geeignet □ sehr geeignet ■

Toleranzen d_1 : -0.002/-0.004
D: h5



Erhältlich unbeschichtet und beschichtet (Siehe Seite 61)

Art. n°	d_1	l_1	D	L
---------	-------	-------	---	---

342d0.05	0.05	0.30	3	38
342d0.06	0.06	0.40	3	38
342d0.07	0.07	0.40	3	38
342d0.08	0.08	0.50	3	38
342d0.09	0.09	0.50	3	38
342d0.10	0.10	0.50	3	38
342d0.11	0.11	0.50	3	38
342d0.12	0.12	0.50	3	38
342d0.13	0.13	0.50	3	38
342d0.14	0.14	0.50	3	38
342d0.15	0.15	0.80	3	38
342d0.16	0.16	0.80	3	38
342d0.17	0.17	0.80	3	38
342d0.18	0.18	0.80	3	38
342d0.19	0.19	0.80	3	38
342d0.20	0.20	0.80	3	38
342d0.21	0.21	1.00	3	38
342d0.22	0.22	1.00	3	38
342d0.23	0.23	1.00	3	38
342d0.24	0.24	1.00	3	38
342d0.25	0.25	1.00	3	38
342d0.26	0.26	1.50	3	38
342d0.27	0.27	1.50	3	38
342d0.28	0.28	1.50	3	38
342d0.29	0.29	1.50	3	38
342d0.30	0.30	1.50	3	38
342d0.31	0.31	2.00	3	38
342d0.32	0.32	2.00	3	38
342d0.33	0.33	2.00	3	38

Art. n°	d_1	l_1	D	L
---------	-------	-------	---	---

342d0.34	0.34	2.00	3	38
342d0.35	0.35	2.00	3	38
342d0.36	0.36	3.00	3	38
342d0.37	0.37	3.00	3	38
342d0.38	0.38	3.00	3	38
342d0.39	0.39	3.00	3	38
342d0.40	0.40	3.00	3	38
342d0.41	0.41	3.00	3	38
342d0.42	0.42	3.00	3	38
342d0.43	0.43	3.00	3	38
342d0.44	0.44	3.00	3	38
342d0.45	0.45	3.00	3	38
342d0.46	0.46	3.00	3	38
342d0.47	0.47	4.00	3	38
342d0.48	0.48	4.00	3	38
342d0.49	0.49	4.00	3	38
342d0.50	0.50	4.00	3	38
342d0.51	0.51	4.00	3	38
342d0.52	0.52	4.00	3	38
342d0.53	0.53	4.00	3	38
342d0.54	0.54	4.00	3	38
342d0.55	0.55	4.00	3	38
342d0.56	0.56	4.00	3	38
342d0.57	0.57	4.00	3	38
342d0.58	0.58	4.00	3	38
342d0.59	0.59	4.00	3	38
342d0.60	0.60	4.00	3	38
342d0.61	0.61	5.00	3	38
342d0.62	0.62	5.00	3	38



118°

Z2



λ
34°

MG10

N

Mikrobohrer Helix 34° - Schaft Ø3



Erhältlich unbeschichtet und beschichtet
(Siehe Seite 61)



118°

Z2

λ
34°

MG10

N

Art. n°	d ₁	l ₁	D	L
342d0.63	0.63	5.00	3	38
342d0.64	0.64	5.00	3	38
342d0.65	0.65	5.00	3	38
342d0.66	0.66	5.00	3	38
342d0.67	0.67	5.00	3	38
342d0.68	0.68	5.00	3	38
342d0.69	0.69	5.00	3	38
342d0.70	0.70	5.00	3	38
342d0.71	0.71	5.00	3	38
342d0.72	0.72	5.00	3	38
342d0.73	0.73	5.00	3	38
342d0.74	0.74	5.00	3	38
342d0.75	0.75	5.00	3	38
342d0.76	0.76	5.00	3	38
342d0.77	0.77	5.00	3	38
342d0.78	0.78	5.00	3	38
342d0.79	0.79	5.00	3	38
342d0.80	0.80	5.00	3	38
342d0.81	0.81	6.00	3	38
342d0.82	0.82	6.00	3	38
342d0.83	0.83	6.00	3	38
342d0.84	0.84	6.00	3	38
342d0.85	0.85	6.00	3	38
342d0.86	0.86	6.00	3	38
342d0.87	0.87	6.00	3	38
342d0.88	0.88	6.00	3	38
342d0.89	0.89	6.00	3	38
342d0.90	0.90	6.00	3	38
342d0.91	0.91	6.00	3	38
342d0.92	0.92	6.00	3	38
342d0.93	0.93	6.00	3	38
342d0.94	0.94	6.00	3	38
342d0.95	0.95	6.00	3	38
342d0.96	0.96	6.00	3	38
342d0.97	0.97	6.00	3	38
342d0.98	0.98	6.00	3	38
342d0.99	0.99	6.00	3	38
342d1.00	1.00	6.00	3	38
342d1.01	1.01	6.00	3	38
342d1.02	1.02	6.00	3	38
342d1.03	1.03	6.00	3	38
342d1.04	1.04	6.00	3	38
342d1.05	1.05	6.00	3	38

Art. n°	d ₁	l ₁	D	L
342d1.06	1.06	6.00	3	38
342d1.07	1.07	6.00	3	38
342d1.08	1.08	6.00	3	38
342d1.09	1.09	6.00	3	38
342d1.10	1.10	6.00	3	38
342d1.12	1.12	6.00	3	38
342d1.13	1.13	6.00	3	38
342d1.14	1.14	6.00	3	38
342d1.15	1.15	6.00	3	38
342d1.16	1.16	6.00	3	38
342d1.17	1.17	6.00	3	38
342d1.18	1.18	6.00	3	38
342d1.19	1.19	6.00	3	38
342d1.20	1.20	6.00	3	38
342d1.21	1.21	8.00	3	38
342d1.22	1.22	8.00	3	38
342d1.23	1.23	8.00	3	38
342d1.24	1.24	8.00	3	38
342d1.25	1.25	8.00	3	38
342d1.26	1.26	8.00	3	38
342d1.27	1.27	8.00	3	38
342d1.28	1.28	8.00	3	38
342d1.29	1.29	8.00	3	38
342d1.30	1.30	8.00	3	38
342d1.31	1.31	8.00	3	38
342d1.32	1.32	8.00	3	38
342d1.33	1.33	8.00	3	38
342d1.34	1.34	8.00	3	38
342d1.35	1.35	8.00	3	38
342d1.36	1.36	8.00	3	38
342d1.37	1.37	8.00	3	38
342d1.38	1.38	8.00	3	38
342d1.39	1.39	8.00	3	38
342d1.40	1.40	8.00	3	38
342d1.41	1.41	8.00	3	38
342d1.42	1.42	8.00	3	38
342d1.43	1.43	8.00	3	38
342d1.44	1.44	8.00	3	38
342d1.45	1.45	8.00	3	38
342d1.46	1.46	8.00	3	38
342d1.47	1.47	8.00	3	38
342d1.48	1.48	8.00	3	38
342d1.49	1.49	8.00	3	38



Mikrobohrer Helix 34° - Schaft Ø3

342

Folge

Art. n°	d ₁	l ₁	D	L
342d1.50	1.50	8.00	3	38
342d1.51	1.51	8.00	3	38
342d1.52	1.52	8.00	3	38
342d1.53	1.53	8.00	3	38
342d1.54	1.54	8.00	3	38
342d1.55	1.55	8.00	3	38
342d1.56	1.56	8.00	3	38
342d1.57	1.57	8.00	3	38
342d1.58	1.58	8.00	3	38
342d1.59	1.59	8.00	3	38
342d1.60	1.60	8.00	3	38
342d1.61	1.61	8.00	3	38
342d1.62	1.62	8.00	3	38
342d1.63	1.63	8.00	3	38
342d1.64	1.64	8.00	3	38
342d1.65	1.65	8.00	3	38
342d1.66	1.66	8.00	3	38
342d1.67	1.67	8.00	3	38
342d1.68	1.68	8.00	3	38
342d1.69	1.69	8.00	3	38
342d1.70	1.70	8.00	3	38
342d1.71	1.71	12.00	3	38
342d1.72	1.72	12.00	3	38
342d1.73	1.73	12.00	3	38
342d1.74	1.74	12.00	3	38
342d1.75	1.75	12.00	3	38
342d1.76	1.76	12.00	3	38
342d1.77	1.77	12.00	3	38
342d1.78	1.78	12.00	3	38
342d1.79	1.79	12.00	3	38
342d1.80	1.80	12.00	3	38
342d1.81	1.81	12.00	3	38
342d1.82	1.82	12.00	3	38
342d1.83	1.83	12.00	3	38
342d1.84	1.84	12.00	3	38
342d1.85	1.85	12.00	3	38
342d1.86	1.86	12.00	3	38
342d1.87	1.87	12.00	3	38
342d1.88	1.88	12.00	3	38
342d1.89	1.89	12.00	3	38
342d1.90	1.90	12.00	3	38
342d1.91	1.91	12.00	3	38
342d1.92	1.92	12.00	3	38
342d1.93	1.93	12.00	3	38
342d1.94	1.94	12.00	3	38

Art. n°	d ₁	l ₁	D	L
342d1.95	1.95	12.00	3	38
342d1.96	1.96	12.00	3	38
342d1.97	1.97	12.00	3	38
342d1.98	1.98	12.00	3	38
342d1.99	1.99	12.00	3	38
342d2.00	2.00	12.00	3	38
342d2.05	2.05	12.00	3	38
342d2.10	2.10	12.00	3	38
342d2.15	2.15	12.00	3	38
342d2.20	2.20	12.00	3	38
342d2.25	2.25	12.00	3	38
342d2.30	2.30	12.00	3	38
342d2.35	2.35	12.00	3	38
342d2.40	2.40	12.00	3	38
342d2.45	2.45	12.00	3	38
342d2.50	2.50	12.00	3	38



Erhältlich unbeschichtet und beschichtet
(Siehe Seite 61)



118°

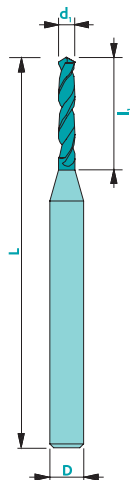
Z2



λ
34°

MG10

N

Bohrer - Helix 34° - $l_1=6$ mm

Erhältlich unbeschichtet und beschichtet
(Siehe Seite 61)

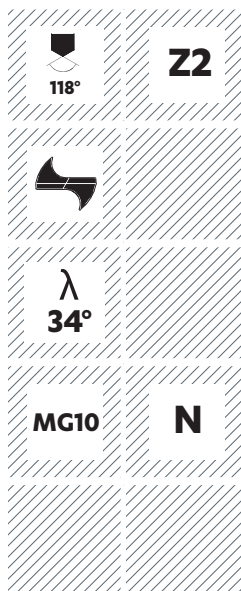
Werkstoffe

	Vc unbeschichtet	Vc beschichtet	Unbeschichtet	beschichtet	Empfohlene Beschichtung
Stahl < 700 N/mm ²	70	80	□	■	Trio
Stahl > 700 N/mm ²	60	70	□	■	Trio
Nichtrostende Stähle	20	40	□	■	Nemo
Gusseisen	60	70	□	■	Nemo
Kupfer	100	130	□	■	Solo
Messing - Bronze	80	120	■	■	Solo
Aluminium	100	120	■	■	Solo
Gold - Silber	80	100	□	□	Solo
Platin - Palladium	-	20	-	□	Solo
Superlegierungen	-	25	-	□	Trio
Titan	40	60	□	□	Rico

nicht geeignet - geeignet □ sehr geeignet ■

Toleranzen

d_1 : -0.002/-0.004
D: h5



Art. n°	d_1	l_1	D	L
343-6d0.60	0.60	6.0	2.0	38
343-6d0.61	0.61	6.0	2.0	38
343-6d0.62	0.62	6.0	2.0	38
343-6d0.63	0.63	6.0	2.0	38
343-6d0.64	0.64	6.0	2.0	38
343-6d0.65	0.65	6.0	2.0	38
343-6d0.66	0.66	6.0	2.0	38
343-6d0.67	0.67	6.0	2.0	38
343-6d0.68	0.68	6.0	2.0	38
343-6d0.69	0.69	6.0	2.0	38
343-6d0.70	0.70	6.0	2.0	38
343-6d0.71	0.71	6.0	2.0	38
343-6d0.72	0.72	6.0	2.0	38
343-6d0.73	0.73	6.0	2.0	38
343-6d0.74	0.74	6.0	2.0	38
343-6d0.75	0.75	6.0	2.0	38
343-6d0.76	0.76	6.0	2.0	38
343-6d0.77	0.77	6.0	2.0	38
343-6d0.78	0.78	6.0	2.0	38
343-6d0.79	0.79	6.0	2.0	38
343-6d0.80	0.80	6.0	2.0	38
343-6d0.81	0.81	6.0	2.0	38
343-6d0.82	0.82	6.0	2.0	38
343-6d0.83	0.83	6.0	2.0	38
343-6d0.84	0.84	6.0	2.0	38
343-6d0.85	0.85	6.0	2.0	38
343-6d0.86	0.86	6.0	2.0	38
343-6d0.87	0.87	6.0	2.0	38
343-6d0.88	0.88	6.0	2.0	38

Art. n°	d_1	l_1	D	L
343-6d0.89	0.89	6.0	2.0	38
343-6d0.90	0.90	6.0	2.0	38
343-6d0.91	0.91	6.0	2.0	38
343-6d0.92	0.92	6.0	2.0	38
343-6d0.93	0.93	6.0	2.0	38
343-6d0.94	0.94	6.0	2.0	38
343-6d0.95	0.95	6.0	2.0	38
343-6d0.96	0.96	6.0	2.0	38
343-6d0.97	0.97	6.0	2.0	38
343-6d0.98	0.98	6.0	2.0	38
343-6d0.99	0.99	6.0	2.0	38
343-6d1.00	1.00	6.0	2.0	38
343-6d1.01	1.01	6.0	2.0	38
343-6d1.02	1.02	6.0	2.0	38
343-6d1.03	1.03	6.0	2.0	38
343-6d1.04	1.04	6.0	2.0	38
343-6d1.05	1.05	6.0	2.0	38
343-6d1.06	1.06	6.0	2.0	38
343-6d1.07	1.07	6.0	2.0	38
343-6d1.08	1.08	6.0	2.0	38
343-6d1.09	1.09	6.0	2.0	38
343-6d1.10	1.10	6.0	2.0	38
343-6d1.11	1.11	6.0	2.0	38
343-6d1.12	1.12	6.0	2.0	38
343-6d1.13	1.13	6.0	2.0	38
343-6d1.14	1.14	6.0	2.0	38
343-6d1.15	1.15	6.0	2.0	38
343-6d1.16	1.16	6.0	2.0	38



Bohrer - Helix 34° - l₁=6 mm

343-6

Folge

Art. n°	d ₁	l ₁	D	L	Art. n°	d ₁	l ₁	D	L
343-6d1.17	1.17	6.0	2.0	38	343-6d1.62	1.62	6.0	2.0	38
343-6d1.18	1.18	6.0	2.0	38	343-6d1.63	1.63	6.0	2.0	38
343-6d1.19	1.19	6.0	2.0	38	343-6d1.64	1.64	6.0	2.0	38
343-6d1.20	1.20	6.0	2.0	38	343-6d1.65	1.65	6.0	2.0	38
343-6d1.21	1.21	6.0	2.0	38	343-6d1.66	1.66	6.0	2.0	38
343-6d1.22	1.22	6.0	2.0	38	343-6d1.67	1.67	6.0	2.0	38
343-6d1.23	1.23	6.0	2.0	38	343-6d1.68	1.68	6.0	2.0	38
343-6d1.24	1.24	6.0	2.0	38	343-6d1.69	1.69	6.0	2.0	38
343-6d1.25	1.25	6.0	2.0	38	343-6d1.70	1.70	6.0	2.0	38
343-6d1.26	1.26	6.0	2.0	38	343-6d1.71	1.71	6.0	2.0	38
343-6d1.27	1.27	6.0	2.0	38	343-6d1.72	1.72	6.0	2.0	38
343-6d1.28	1.28	6.0	2.0	38	343-6d1.73	1.73	6.0	2.0	38
343-6d1.29	1.29	6.0	2.0	38	343-6d1.74	1.74	6.0	2.0	38
343-6d1.30	1.30	6.0	2.0	38	343-6d1.75	1.75	6.0	2.0	38
343-6d1.31	1.31	6.0	2.0	38	343-6d1.76	1.76	6.0	2.0	38
343-6d1.32	1.32	6.0	2.0	38	343-6d1.77	1.77	6.0	2.0	38
343-6d1.33	1.33	6.0	2.0	38	343-6d1.78	1.78	6.0	2.0	38
343-6d1.34	1.34	6.0	2.0	38	343-6d1.79	1.79	6.0	2.0	38
343-6d1.35	1.35	6.0	2.0	38	343-6d1.80	1.80	6.0	2.0	38
343-6d1.36	1.36	6.0	2.0	38	343-6d1.81	1.81	6.0	2.0	38
343-6d1.37	1.37	6.0	2.0	38	343-6d1.82	1.82	6.0	2.0	38
343-6d1.38	1.38	6.0	2.0	38	343-6d1.83	1.83	6.0	2.0	38
343-6d1.39	1.39	6.0	2.0	38	343-6d1.84	1.84	6.0	2.0	38
343-6d1.40	1.40	6.0	2.0	38	343-6d1.85	1.85	6.0	2.0	38
343-6d1.41	1.41	6.0	2.0	38	343-6d1.86	1.86	6.0	2.0	38
343-6d1.42	1.42	6.0	2.0	38	343-6d1.87	1.87	6.0	2.0	38
343-6d1.43	1.43	6.0	2.0	38	343-6d1.88	1.88	6.0	2.0	38
343-6d1.44	1.44	6.0	2.0	38	343-6d1.89	1.89	6.0	2.0	38
343-6d1.45	1.45	6.0	2.0	38	343-6d1.90	1.90	6.0	2.0	38
343-6d1.46	1.46	6.0	2.0	38	343-6d1.91	1.91	6.0	2.0	38
343-6d1.47	1.47	6.0	2.0	38	343-6d1.92	1.92	6.0	2.0	38
343-6d1.48	1.48	6.0	2.0	38	343-6d1.93	1.93	6.0	2.0	38
343-6d1.49	1.49	6.0	2.0	38	343-6d1.94	1.94	6.0	2.0	38
343-6d1.50	1.50	6.0	2.0	38	343-6d1.95	1.95	6.0	2.0	38
343-6d1.51	1.51	6.0	2.0	38	343-6d1.96	1.96	6.0	2.0	38
343-6d1.52	1.52	6.0	2.0	38	343-6d1.97	1.97	6.0	2.0	38
343-6d1.53	1.53	6.0	2.0	38	343-6d1.98	1.98	6.0	2.0	38
343-6d1.54	1.54	6.0	2.0	38	343-6d1.99	1.99	6.0	2.0	38
343-6d1.55	1.55	6.0	2.0	38	343-6d2.00	2.00	6.0	2.0	38
343-6d1.56	1.56	6.0	2.0	38					
343-6d1.57	1.57	6.0	2.0	38					
343-6d1.58	1.58	6.0	2.0	38					
343-6d1.59	1.59	6.0	2.0	38					
343-6d1.60	1.60	6.0	2.0	38					
343-6d1.61	1.61	6.0	2.0	38					



Erhältlich unbeschichtet und beschichtet (Siehe Seite 61)



118°

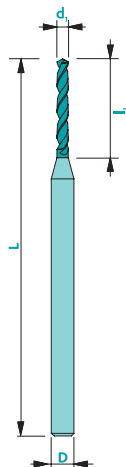
Z2



λ
34°

MG10

N

Bohrer - Helix 34° - $l_1=8$ mm

Erhältlich unbeschichtet und beschichtet
(Siehe Seite 61)

Werkstoffe

	Vc unbeschichtet	Vc beschichtet	Unbeschichtet	beschichtet	Empfohlene Beschichtung
Stahl < 700 N/mm ²	70	80	□	■	Trio
Stahl > 700 N/mm ²	60	70	□	■	Trio
Nichtrostende Stähle	20	40	□	■	Nemo
Gusseisen	60	70	□	■	Nemo
Kupfer	100	130	□	■	Solo
Messing - Bronze	80	120	■	■	Solo
Aluminium	100	120	■	■	Solo
Gold - Silber	80	100	□	□	Solo
Platin - Palladium	-	20	-	□	Solo
Superlegierungen	-	25	-	□	Trio
Titan	40	60	□	□	Rico

nicht geeignet - geeignet □ sehr geeignet ■

Toleranzen

d_1 : -0.002/-0.004
D: h5



118°

Z2

λ
34°

MG10

N

Art. n°	d_1	l_1	D	L
343-8d0.80	0.80	8.0	2.0	38
343-8d0.81	0.81	8.0	2.0	38
343-8d0.82	0.82	8.0	2.0	38
343-8d0.83	0.83	8.0	2.0	38
343-8d0.84	0.84	8.0	2.0	38
343-8d0.85	0.85	8.0	2.0	38
343-8d0.86	0.86	8.0	2.0	38
343-8d0.87	0.87	8.0	2.0	38
343-8d0.88	0.88	8.0	2.0	38
343-8d0.89	0.89	8.0	2.0	38
343-8d0.90	0.90	8.0	2.0	38
343-8d0.91	0.91	8.0	2.0	38
343-8d0.92	0.92	8.0	2.0	38
343-8d0.93	0.93	8.0	2.0	38
343-8d0.94	0.94	8.0	2.0	38
343-8d0.95	0.95	8.0	2.0	38
343-8d0.96	0.96	8.0	2.0	38
343-8d0.97	0.97	8.0	2.0	38
343-8d0.98	0.98	8.0	2.0	38
343-8d0.99	0.99	8.0	2.0	38
343-8d1.00	1.00	8.0	2.0	38
343-8d1.01	1.01	8.0	2.0	38
343-8d1.02	1.02	8.0	2.0	38
343-8d1.03	1.03	8.0	2.0	38
343-8d1.04	1.04	8.0	2.0	38
343-8d1.05	1.05	8.0	2.0	38
343-8d1.06	1.06	8.0	2.0	38
343-8d1.07	1.07	8.0	2.0	38
343-8d1.08	1.08	8.0	2.0	38
343-8d1.09	1.09	8.0	2.0	38

Art. n°	d_1	l_1	D	L
343-8d1.10	1.10	8.0	2.0	38
343-8d1.11	1.11	8.0	2.0	38
343-8d1.12	1.12	8.0	2.0	38
343-8d1.13	1.13	8.0	2.0	38
343-8d1.14	1.14	8.0	2.0	38
343-8d1.15	1.15	8.0	2.0	38
343-8d1.16	1.16	8.0	2.0	38
343-8d1.17	1.17	8.0	2.0	38
343-8d1.18	1.18	8.0	2.0	38
343-8d1.19	1.19	8.0	2.0	38
343-8d1.20	1.20	8.0	2.0	38
343-8d1.21	1.21	8.0	2.0	38
343-8d1.22	1.22	8.0	2.0	38
343-8d1.23	1.23	8.0	2.0	38
343-8d1.24	1.24	8.0	2.0	38
343-8d1.25	1.25	8.0	2.0	38
343-8d1.26	1.26	8.0	2.0	38
343-8d1.27	1.27	8.0	2.0	38
343-8d1.28	1.28	8.0	2.0	38
343-8d1.29	1.29	8.0	2.0	38
343-8d1.30	1.30	8.0	2.0	38
343-8d1.31	1.31	8.0	2.0	38
343-8d1.32	1.32	8.0	2.0	38
343-8d1.33	1.33	8.0	2.0	38
343-8d1.34	1.34	8.0	2.0	38
343-8d1.35	1.35	8.0	2.0	38
343-8d1.36	1.36	8.0	2.0	38
343-8d1.37	1.37	8.0	2.0	38
343-8d1.38	1.38	8.0	2.0	38
343-8d1.39	1.39	8.0	2.0	38

Bohrer - Helix 34° - l₁=8 mm

343-8

Folge

Art. n°	d ₁	l ₁	D	L	Art. n°	d ₁	l ₁	D	L
343-8d1.40	1.40	8.0	2.0	38	343-8d1.85	1.85	8.0	2.0	38
343-8d1.41	1.41	8.0	2.0	38	343-8d1.86	1.86	8.0	2.0	38
343-8d1.42	1.42	8.0	2.0	38	343-8d1.87	1.87	8.0	2.0	38
343-8d1.43	1.43	8.0	2.0	38	343-8d1.88	1.88	8.0	2.0	38
343-8d1.44	1.44	8.0	2.0	38	343-8d1.89	1.89	8.0	2.0	38
343-8d1.45	1.45	8.0	2.0	38	343-8d1.90	1.90	8.0	2.0	38
343-8d1.46	1.46	8.0	2.0	38	343-8d1.91	1.91	8.0	2.0	38
343-8d1.47	1.47	8.0	2.0	38	343-8d1.92	1.92	8.0	2.0	38
343-8d1.48	1.48	8.0	2.0	38	343-8d1.93	1.93	8.0	2.0	38
343-8d1.49	1.49	8.0	2.0	38	343-8d1.94	1.94	8.0	2.0	38
343-8d1.50	1.50	8.0	2.0	38	343-8d1.95	1.95	8.0	2.0	38
343-8d1.51	1.51	8.0	2.0	38	343-8d1.96	1.96	8.0	2.0	38
343-8d1.52	1.52	8.0	2.0	38	343-8d1.97	1.97	8.0	2.0	38
343-8d1.53	1.53	8.0	2.0	38	343-8d1.98	1.98	8.0	2.0	38
343-8d1.54	1.54	8.0	2.0	38	343-8d1.99	1.99	8.0	2.0	38
343-8d1.55	1.55	8.0	2.0	38	343-8d2.00	2.00	8.0	2.0	38
343-8d1.56	1.56	8.0	2.0	38	343-8d2.01	2.01	8.0	3.0	38
343-8d1.57	1.57	8.0	2.0	38	343-8d2.02	2.02	8.0	3.0	38
343-8d1.58	1.58	8.0	2.0	38	343-8d2.03	2.03	8.0	3.0	38
343-8d1.59	1.59	8.0	2.0	38	343-8d2.04	2.04	8.0	3.0	38
343-8d1.60	1.60	8.0	2.0	38	343-8d2.05	2.05	8.0	3.0	38
343-8d1.61	1.61	8.0	2.0	38	343-8d2.06	2.06	8.0	3.0	38
343-8d1.62	1.62	8.0	2.0	38	343-8d2.07	2.07	8.0	3.0	38
343-8d1.63	1.63	8.0	2.0	38	343-8d2.08	2.08	8.0	3.0	38
343-8d1.64	1.64	8.0	2.0	38	343-8d2.09	2.09	8.0	3.0	38
343-8d1.65	1.65	8.0	2.0	38	343-8d2.10	2.10	8.0	3.0	38
343-8d1.66	1.66	8.0	2.0	38	343-8d2.11	2.11	8.0	3.0	38
343-8d1.67	1.67	8.0	2.0	38	343-8d2.12	2.12	8.0	3.0	38
343-8d1.68	1.68	8.0	2.0	38	343-8d2.13	2.13	8.0	3.0	38
343-8d1.69	1.69	8.0	2.0	38	343-8d2.14	2.14	8.0	3.0	38
343-8d1.70	1.70	8.0	2.0	38	343-8d2.15	2.15	8.0	3.0	38
343-8d1.71	1.71	8.0	2.0	38	343-8d2.16	2.16	8.0	3.0	38
343-8d1.72	1.72	8.0	2.0	38	343-8d2.17	2.17	8.0	3.0	38
343-8d1.73	1.73	8.0	2.0	38	343-8d2.18	2.18	8.0	3.0	38
343-8d1.74	1.74	8.0	2.0	38	343-8d2.19	2.19	8.0	3.0	38
343-8d1.75	1.75	8.0	2.0	38	343-8d2.20	2.20	8.0	3.0	38
343-8d1.76	1.76	8.0	2.0	38	343-8d2.21	2.21	8.0	3.0	38
343-8d1.77	1.77	8.0	2.0	38	343-8d2.22	2.22	8.0	3.0	38
343-8d1.78	1.78	8.0	2.0	38	343-8d2.23	2.23	8.0	3.0	38
343-8d1.79	1.79	8.0	2.0	38	343-8d2.24	2.24	8.0	3.0	38
343-8d1.80	1.80	8.0	2.0	38	343-8d2.25	2.25	8.0	3.0	38
343-8d1.81	1.81	8.0	2.0	38	343-8d2.26	2.26	8.0	3.0	38
343-8d1.82	1.82	8.0	2.0	38	343-8d2.27	2.27	8.0	3.0	38
343-8d1.83	1.83	8.0	2.0	38	343-8d2.28	2.28	8.0	3.0	38
343-8d1.84	1.84	8.0	2.0	38	343-8d2.29	2.29	8.0	3.0	38



Erhältlich unbeschichtet und beschichtet
(Siehe Seite 61)



118°

Z2



λ
34°

MG10

N

Bohrer - Helix 34° - $l_1=8$ mm

Erhältlich unbeschichtet und beschichtet
(Siehe Seite 61)



118°

Z2

λ
34°

MG10

N

Art. n°	d_1	l_1	D	L
343-8d2.30	2.30	8.0	3.0	38
343-8d2.31	2.31	8.0	3.0	38
343-8d2.32	2.32	8.0	3.0	38
343-8d2.33	2.33	8.0	3.0	38
343-8d2.34	2.34	8.0	3.0	38
343-8d2.35	2.35	8.0	3.0	38
343-8d2.36	2.36	8.0	3.0	38
343-8d2.37	2.37	8.0	3.0	38
343-8d2.38	2.38	8.0	3.0	38
343-8d2.39	2.39	8.0	3.0	38
343-8d2.40	2.40	8.0	3.0	38
343-8d2.41	2.41	8.0	3.0	38
343-8d2.42	2.42	8.0	3.0	38
343-8d2.43	2.43	8.0	3.0	38
343-8d2.44	2.44	8.0	3.0	38
343-8d2.45	2.45	8.0	3.0	38
343-8d2.46	2.46	8.0	3.0	38
343-8d2.47	2.47	8.0	3.0	38
343-8d2.48	2.48	8.0	3.0	38
343-8d2.49	2.49	8.0	3.0	38
343-8d2.50	2.50	8.0	3.0	38
343-8d2.51	2.51	8.0	3.0	38
343-8d2.52	2.52	8.0	3.0	38
343-8d2.53	2.53	8.0	3.0	38
343-8d2.54	2.54	8.0	3.0	38
343-8d2.55	2.55	8.0	3.0	38
343-8d2.56	2.56	8.0	3.0	38
343-8d2.57	2.57	8.0	3.0	38
343-8d2.58	2.58	8.0	3.0	38
343-8d2.59	2.59	8.0	3.0	38
343-8d2.60	2.60	8.0	3.0	38
343-8d2.61	2.61	8.0	3.0	38
343-8d2.62	2.62	8.0	3.0	38
343-8d2.63	2.63	8.0	3.0	38
343-8d2.64	2.64	8.0	3.0	38
343-8d2.65	2.65	8.0	3.0	38
343-8d2.66	2.66	8.0	3.0	38
343-8d2.67	2.67	8.0	3.0	38
343-8d2.68	2.68	8.0	3.0	38
343-8d2.69	2.69	8.0	3.0	38
343-8d2.70	2.70	8.0	3.0	38
343-8d2.71	2.71	8.0	3.0	38
343-8d2.72	2.72	8.0	3.0	38
343-8d2.73	2.73	8.0	3.0	38
343-8d2.74	2.74	8.0	3.0	38

Art. n°	d_1	l_1	D	L
343-8d2.75	2.75	8.0	3.0	38
343-8d2.76	2.76	8.0	3.0	38
343-8d2.77	2.77	8.0	3.0	38
343-8d2.78	2.78	8.0	3.0	38
343-8d2.79	2.79	8.0	3.0	38
343-8d2.80	2.80	8.0	3.0	38
343-8d2.81	2.81	8.0	3.0	38
343-8d2.82	2.82	8.0	3.0	38
343-8d2.83	2.83	8.0	3.0	38
343-8d2.84	2.84	8.0	3.0	38
343-8d2.85	2.85	8.0	3.0	38
343-8d2.86	2.86	8.0	3.0	38
343-8d2.87	2.87	8.0	3.0	38
343-8d2.88	2.88	8.0	3.0	38
343-8d2.89	2.89	8.0	3.0	38
343-8d2.90	2.90	8.0	3.0	38
343-8d2.91	2.91	8.0	3.0	38
343-8d2.92	2.92	8.0	3.0	38
343-8d2.93	2.93	8.0	3.0	38
343-8d2.94	2.94	8.0	3.0	38
343-8d2.95	2.95	8.0	3.0	38
343-8d2.96	2.96	8.0	3.0	38
343-8d2.97	2.97	8.0	3.0	38
343-8d2.98	2.98	8.0	3.0	38
343-8d2.99	2.99	8.0	3.0	38
343-8d3.00	3.00	8.0	3.0	38
343-8d3.10	3.10	8.0	4.0	38
343-8d3.20	3.20	8.0	4.0	38
343-8d3.30	3.30	8.0	4.0	38
343-8d3.40	3.40	8.0	4.0	38
343-8d3.50	3.50	8.0	4.0	38
343-8d3.60	3.60	8.0	4.0	38
343-8d3.70	3.70	8.0	4.0	38
343-8d3.80	3.80	8.0	4.0	38
343-8d3.90	3.90	8.0	4.0	38
343-8d4.00	4.00	8.0	4.0	38
343-8d4.10	4.10	8.0	4.5	38
343-8d4.20	4.20	8.0	4.5	38
343-8d4.30	4.30	8.0	4.5	38
343-8d4.40	4.40	8.0	4.5	38
343-8d4.50	4.50	8.0	4.5	38
343-8d5.00	5.00	8.0	5.0	38
343-8d5.50	5.50	8.0	5.5	38
343-8d6.00	6.00	8.0	6.0	38

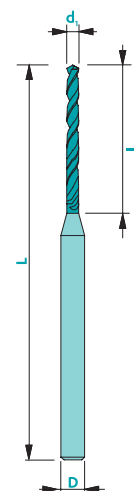
Bohrer - Helix 34° - $l_1=12$ mm

343-12

Werkstoffe	Vc unbeschichtet	Vc beschichtet	Unbes- chichtet	beschichtet	Empfohlene Beschichtung
Stahl < 700 N/mm ²	70	80	□	□	Trio
Stahl > 700 N/mm ²	60	70	□	■	Trio
Nichtrostende Stähle	20	40	□	■	Nemo
Gusseisen	60	70	□	■	Nemo
Kupfer	100	130	□	■	Solo
Messing - Bronze	80	120	■	■	Solo
Aluminium	100	120	■	■	Solo
Gold - Silber	80	100	□	□	Solo
Platin - Palladium	-	20	-	□	Solo
Superlegierungen	-	25	-	□	Trio
Titan	40	60	□	□	Rico

nicht geeignet - geeignet □ sehr geeignet ■

Toleranzen d_1 : -0.002/-0.004
D: h5



Erhältlich unbeschichtet und beschichtet (Siehe Seite 61)

Art. n°	d_1	l_1	D	L	Art. n°	d_1	l_1	D	L
343-12d0.80	0.80	12.0	2.0	38	343-12d1.08	1.08	12.0	2.0	38
343-12d0.81	0.81	12.0	2.0	38	343-12d1.09	1.09	12.0	2.0	38
343-12d0.82	0.82	12.0	2.0	38	343-12d1.10	1.10	12.0	2.0	38
343-12d0.83	0.83	12.0	2.0	38	343-12d1.11	1.11	12.0	2.0	38
343-12d0.84	0.84	12.0	2.0	38	343-12d1.12	1.12	12.0	2.0	38
343-12d0.85	0.85	12.0	2.0	38	343-12d1.13	1.13	12.0	2.0	38
343-12d0.86	0.86	12.0	2.0	38	343-12d1.14	1.14	12.0	2.0	38
343-12d0.87	0.87	12.0	2.0	38	343-12d1.15	1.15	12.0	2.0	38
343-12d0.88	0.88	12.0	2.0	38	343-12d1.16	1.16	12.0	2.0	38
343-12d0.89	0.89	12.0	2.0	38	343-12d1.17	1.17	12.0	2.0	38
343-12d0.90	0.90	12.0	2.0	38	343-12d1.18	1.18	12.0	2.0	38
343-12d0.91	0.91	12.0	2.0	38	343-12d1.19	1.19	12.0	2.0	38
343-12d0.92	0.92	12.0	2.0	38	343-12d1.20	1.20	12.0	2.0	38
343-12d0.93	0.93	12.0	2.0	38	343-12d1.21	1.21	12.0	2.0	38
343-12d0.94	0.94	12.0	2.0	38	343-12d1.22	1.22	12.0	2.0	38
343-12d0.95	0.95	12.0	2.0	38	343-12d1.23	1.23	12.0	2.0	38
343-12d0.96	0.96	12.0	2.0	38	343-12d1.24	1.24	12.0	2.0	38
343-12d0.97	0.97	12.0	2.0	38	343-12d1.25	1.25	12.0	2.0	38
343-12d0.98	0.98	12.0	2.0	38	343-12d1.26	1.26	12.0	2.0	38
343-12d0.99	0.99	12.0	2.0	38	343-12d1.27	1.27	12.0	2.0	38
343-12d1.00	1.00	12.0	2.0	38	343-12d1.28	1.28	12.0	2.0	38
343-12d1.01	1.01	12.0	2.0	38	343-12d1.29	1.29	12.0	2.0	38
343-12d1.02	1.02	12.0	2.0	38	343-12d1.30	1.30	12.0	2.0	38
343-12d1.03	1.03	12.0	2.0	38	343-12d1.31	1.31	12.0	2.0	38
343-12d1.04	1.04	12.0	2.0	38	343-12d1.32	1.32	12.0	2.0	38
343-12d1.05	1.05	12.0	2.0	38	343-12d1.33	1.33	12.0	2.0	38
343-12d1.06	1.06	12.0	2.0	38	343-12d1.34	1.34	12.0	2.0	38
343-12d1.07	1.07	12.0	2.0	38	343-12d1.35	1.35	12.0	2.0	38



118°

Z2



λ
34°

MG10

N

Bohrer - Helix 34° - $l_1=12$ mm

Erhältlich unbeschichtet und beschichtet
(Siehe Seite 61)



118°

Z2


 λ
34°

MG10

N

Art. n°	d_1	l_1	D	L
343-12d1.36	1.36	12.0	2.0	38
343-12d1.37	1.37	12.0	2.0	38
343-12d1.38	1.38	12.0	2.0	38
343-12d1.39	1.39	12.0	2.0	38
343-12d1.40	1.40	12.0	2.0	38
343-12d1.41	1.41	12.0	2.0	38
343-12d1.42	1.42	12.0	2.0	38
343-12d1.43	1.43	12.0	2.0	38
343-12d1.44	1.44	12.0	2.0	38
343-12d1.45	1.45	12.0	2.0	38
343-12d1.46	1.46	12.0	2.0	38
343-12d1.47	1.47	12.0	2.0	38
343-12d1.48	1.48	12.0	2.0	38
343-12d1.49	1.49	12.0	2.0	38
343-12d1.50	1.50	12.0	2.0	38
343-12d1.51	1.51	12.0	2.0	38
343-12d1.52	1.52	12.0	2.0	38
343-12d1.53	1.53	12.0	2.0	38
343-12d1.54	1.54	12.0	2.0	38
343-12d1.55	1.55	12.0	2.0	38
343-12d1.56	1.56	12.0	2.0	38
343-12d1.57	1.57	12.0	2.0	38
343-12d1.58	1.58	12.0	2.0	38
343-12d1.59	1.59	12.0	2.0	38
343-12d1.60	1.60	12.0	2.0	38
343-12d1.61	1.61	12.0	2.0	38
343-12d1.62	1.62	12.0	2.0	38
343-12d1.63	1.63	12.0	2.0	38
343-12d1.64	1.64	12.0	2.0	38
343-12d1.65	1.65	12.0	2.0	38
343-12d1.66	1.66	12.0	2.0	38
343-12d1.67	1.67	12.0	2.0	38
343-12d1.68	1.68	12.0	2.0	38
343-12d1.69	1.69	12.0	2.0	38
343-12d1.70	1.70	12.0	2.0	38
343-12d1.71	1.71	12.0	2.0	38
343-12d1.72	1.72	12.0	2.0	38
343-12d1.73	1.73	12.0	2.0	38
343-12d1.74	1.74	12.0	2.0	38
343-12d1.75	1.75	12.0	2.0	38
343-12d1.76	1.76	12.0	2.0	38
343-12d1.77	1.77	12.0	2.0	38
343-12d1.78	1.78	12.0	2.0	38
343-12d1.79	1.79	12.0	2.0	38

Art. n°	d_1	l_1	D	L
343-12d1.80	1.80	12.0	2.0	38
343-12d1.81	1.81	12.0	2.0	38
343-12d1.82	1.82	12.0	2.0	38
343-12d1.83	1.83	12.0	2.0	38
343-12d1.84	1.84	12.0	2.0	38
343-12d1.85	1.85	12.0	2.0	38
343-12d1.86	1.86	12.0	2.0	38
343-12d1.87	1.87	12.0	2.0	38
343-12d1.88	1.88	12.0	2.0	38
343-12d1.89	1.89	12.0	2.0	38
343-12d1.90	1.90	12.0	2.0	38
343-12d1.91	1.91	12.0	2.0	38
343-12d1.92	1.92	12.0	2.0	38
343-12d1.93	1.93	12.0	2.0	38
343-12d1.94	1.94	12.0	2.0	38
343-12d1.95	1.95	12.0	2.0	38
343-12d1.96	1.96	12.0	2.0	38
343-12d1.97	1.97	12.0	2.0	38
343-12d1.98	1.98	12.0	2.0	38
343-12d1.99	1.99	12.0	2.0	38
343-12d2.00	2.00	12.0	2.0	38
343-12d2.05	2.05	12.0	3.0	38
343-12d2.10	2.10	12.0	3.0	38
343-12d2.15	2.15	12.0	3.0	38
343-12d2.17	2.17	12.0	3.0	38
343-12d2.18	2.18	12.0	3.0	38
343-12d2.20	2.20	12.0	3.0	38
343-12d2.25	2.25	12.0	3.0	38
343-12d2.27	2.27	12.0	3.0	38
343-12d2.28	2.28	12.0	3.0	38
343-12d2.30	2.30	12.0	3.0	38
343-12d2.35	2.35	12.0	3.0	38
343-12d2.37	2.37	12.0	3.0	38
343-12d2.38	2.38	12.0	3.0	38
343-12d2.40	2.40	12.0	3.0	38
343-12d2.45	2.45	12.0	3.0	38
343-12d2.50	2.50	12.0	3.0	38
343-12d2.55	2.55	12.0	3.0	38
343-12d2.60	2.60	12.0	3.0	38
343-12d2.65	2.65	12.0	3.0	38
343-12d2.70	2.70	12.0	3.0	38
343-12d2.80	2.80	12.0	3.0	38
343-12d2.90	2.90	12.0	3.0	38
343-12d2.95	2.95	12.0	3.0	38



Bohrer - Helix 34° - l₁=12 mm

343-12

Folge

Art. n°	d ₁	l ₁	D	L
343-12d3.00	3.00	12.0	3.0	38
343-12d3.10	3.10	12.0	4.0	38
343-12d3.20	3.20	12.0	4.0	38
343-12d3.30	3.30	12.0	4.0	38
343-12d3.40	3.40	12.0	4.0	38
343-12d3.50	3.50	12.0	4.0	38
343-12d3.60	3.60	12.0	4.0	38
343-12d3.70	3.70	12.0	4.0	38
343-12d3.80	3.80	12.0	4.0	38
343-12d3.90	3.90	12.0	4.0	38
343-12d4.00	4.00	12.0	4.0	38
343-12d4.10	4.10	12.0	4.5	38
343-12d4.20	4.20	12.0	4.5	38
343-12d4.30	4.30	12.0	4.5	38
343-12d4.40	4.40	12.0	4.5	38
343-12d4.50	4.50	12.0	4.5	38
343-12d5.00	5.00	12.0	5.0	38
343-12d5.50	5.50	12.0	5.5	38
343-12d6.00	6.00	12.0	6.0	38



Erhältlich unbeschichtet und beschichtet
(Siehe Seite 61)



Z2



λ
34°

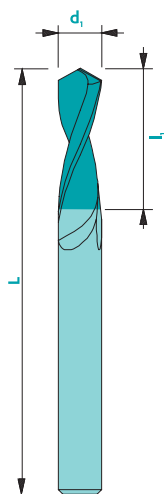
MG10

N

Spiralbohrer - Helix 24°



Erhältlich unbeschichtet und beschichtet
(Siehe Seite 61)



Werkstoffe	Vc unbeschichtet	Vc beschichtet	Unbeschichtet	beschichtet	Empfohlene Beschichtung
Stahl < 700 N/mm²	70	80	□	■	Trio
Stahl > 700 N/mm²	60	70	□	■	Trio
Nichtrostende Stähle	20	40	□	□	Nemo
Gusseisen	60	70	□	■	Nemo
Kupfer	100	130	□	□	Solo
Messing - Bronze	80	120	■	■	Solo
Aluminium	100	120	□	■	Solo
Gold - Silber	80	100	■	■	Solo
Platin - Palladium	-	20	-	□	Solo
Superlegierungen	-	25	-	■	Trio
Titan	40	60	□	□	Rico

nicht geeignet - geeignet □ sehr geeignet ■

Toleranzen d₁: h5

	118°	Z2
	24°	
MG10		N

Art. n°	d ₁	l ₁	L
348d0.30	0.30	5.0	30
348d0.35	0.35	5.0	30
348d0.40	0.40	6.0	30
348d0.45	0.45	6.0	30
348d0.50	0.50	6.0	30
348d0.55	0.55	6.0	30
348d0.60	0.60	6.0	30
348d0.65	0.65	6.0	30
348d0.70	0.70	6.0	30
348d0.75	0.75	6.0	30
348d0.80	0.80	7.0	30
348d0.85	0.85	7.0	30
348d0.90	0.90	7.0	30
348d0.95	0.95	7.0	30
348d1.00	1.00	7.0	30
348d1.05	1.05	8.0	30
348d1.10	1.10	8.0	30
348d1.15	1.15	8.0	30
348d1.20	1.20	8.0	30
348d1.25	1.25	8.0	30
348d1.30	1.30	8.0	30
348d1.35	1.35	8.0	30
348d1.40	1.40	8.0	30
348d1.45	1.45	8.0	30
348d1.50	1.50	8.0	30
348d1.55	1.55	9.0	38
348d1.60	1.60	9.0	38
348d1.65	1.65	9.0	38
348d1.70	1.70	9.0	38
348d1.75	1.75	9.0	38

Art. n°	d ₁	l ₁	L
348d1.80	1.80	9.0	38
348d1.85	1.85	9.0	38
348d1.90	1.90	9.0	38
348d1.95	1.95	9.0	38
348d2.00	2.00	9.0	38
348d2.05	2.05	9.0	38
348d2.10	2.10	9.0	38
348d2.15	2.15	10.0	40
348d2.20	2.20	10.0	40
348d2.25	2.25	10.0	40
348d2.30	2.30	10.0	40
348d2.35	2.35	10.0	40
348d2.40	2.40	11.0	43
348d2.45	2.45	11.0	43
348d2.50	2.50	11.0	43
348d2.55	2.55	11.0	43
348d2.60	2.60	11.0	43
348d2.65	2.65	11.0	43
348d2.70	2.70	12.0	46
348d2.75	2.75	12.0	46
348d2.80	2.80	12.0	46
348d2.85	2.85	12.0	46
348d2.90	2.90	12.0	46
348d2.95	2.95	12.0	46
348d3.00	3.00	12.0	46
348d3.05	3.05	14.0	49
348d3.10	3.10	14.0	49
348d3.15	3.15	14.0	49
348d3.20	3.20	14.0	49



Spiralbohrer - Helix 24°

348

Folge

Art. n°	d ₁	l ₁	L
348d3.25	3.25	14.0	49
348d3.30	3.30	14.0	49
348d3.35	3.35	14.0	49
348d3.40	3.40	15.0	52
348d3.45	3.45	15.0	52
348d3.50	3.50	15.0	52
348d3.55	3.55	15.0	52
348d3.60	3.60	15.0	52
348d3.65	3.65	15.0	52
348d3.70	3.70	15.0	52
348d3.75	3.75	15.0	52
348d3.80	3.80	17.0	52
348d3.85	3.85	17.0	50
348d3.90	3.90	17.0	55
348d3.95	3.95	17.0	55
348d4.00	4.00	17.0	55
348d4.05	4.05	17.0	55
348d4.10	4.10	17.0	55
348d4.15	4.15	17.0	55
348d4.20	4.20	17.0	55
348d4.25	4.25	17.0	55
348d4.30	4.30	18.0	58
348d4.35	4.35	18.0	58
348d4.40	4.40	18.0	58
348d4.45	4.45	18.0	58
348d4.50	4.50	18.0	58
348d4.55	4.55	18.0	58
348d4.60	4.60	18.0	58
348d4.65	4.65	18.0	58
348d4.70	4.70	18.0	58
348d4.75	4.75	18.0	58
348d4.80	4.80	20.0	62
348d4.85	4.85	20.0	62
348d4.90	4.90	20.0	62
348d4.95	4.95	20.0	62
348d5.00	5.00	20.0	62
348d5.10	5.10	20.0	62
348d5.20	5.20	20.0	62
348d5.30	5.30	20.0	62
348d5.40	5.40	21.0	66
348d5.50	5.50	21.0	66
348d5.60	5.60	21.0	66
348d5.70	5.70	21.0	66
348d5.80	5.80	21.0	66
348d5.90	5.90	21.0	66

Art. n°	d ₁	l ₁	L
348d6.00	6.00	21.0	66
348d6.10	6.10	23.0	70
348d6.20	6.20	23.0	70
348d6.30	6.30	23.0	70
348d6.40	6.40	23.0	70
348d6.50	6.50	23.0	70
348d6.60	6.60	23.0	70
348d6.70	6.70	23.0	70
348d6.80	6.80	25.0	74
348d6.90	6.90	25.0	74
348d7.00	7.00	25.0	74
348d7.10	7.10	25.0	74
348d7.20	7.20	25.0	74
348d7.30	7.30	25.0	74
348d7.40	7.40	25.0	74
348d7.50	7.50	25.0	74
348d7.60	7.60	27.0	79
348d7.70	7.70	27.0	79
348d7.80	7.80	27.0	79
348d7.90	7.90	27.0	79
348d8.00	8.00	27.0	79
348d8.10	8.10	27.0	79
348d8.20	8.20	27.0	79
348d8.30	8.30	27.0	79
348d8.40	8.40	27.0	79
348d8.50	8.50	27.0	79
348d8.80	8.80	29.0	84
348d9.00	9.00	29.0	84
348d9.20	9.20	29.0	84
348d9.50	9.50	29.0	84
348d9.80	9.80	31.0	89
348d10.00	10.00	31.0	89
348d10.20	10.20	31.0	89
348d10.50	10.50	31.0	89
348d11.00	11.00	33.0	95
348d11.50	11.50	33.0	95
348d12.00	12.00	35.0	102
348d12.50	12.50	35.0	102
348d13.00	13.00	35.0	102
348d13.50	13.50	37.0	107
348d14.00	14.00	37.0	107
348d16.00	16.00	38.0	115



Erhältlich unbeschichtet und beschichtet (Siehe Seite 61)



118°

Z2



λ
24°

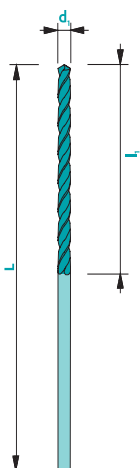
MG10

N

Lange Spiralbohrer - Helix 34°



Erhältlich unbeschichtet und beschichtet
(Siehe Seite 61)



Werkstoffe	Vc unbeschichtet	Vc beschichtet	Unbeschichtet	beschichtet	Empfohlene Beschichtung
Stahl < 700 N/mm ²	70	80	□	□	Trio
Stahl > 700 N/mm ²	60	70	□	■	Trio
Nichtrostende Stähle	20	40	□	■	Nemo
Gusseisen	60	70	□	■	Nemo
Kupfer	100	130	□	■	Solo
Messing - Bronze	80	120	■	■	Solo
Aluminium	100	120	■	■	Solo
Gold - Silber	80	100	□	□	Solo
Platin - Palladium	-	20	-	□	Solo
Superlegierungen	-	25	-	□	Trio
Titan	40	60	□	□	Rico

nicht geeignet - geeignet □ sehr geeignet ■

Toleranzen d_1 : h5



Art. n°	d_1	L_1	L
352d0.300	0.300	3.7	38
352d0.350	0.350	3.7	38
352d0.400	0.400	4.7	38
352d0.450	0.450	4.7	38
352d0.500	0.500	5.7	38
352d0.550	0.550	5.7	38
352d0.600	0.600	7.7	38
352d0.650	0.650	7.7	38
352d0.700	0.700	9.7	38
352d0.750	0.750	9.7	38
352d0.800	0.800	11.7	38
352d0.850	0.850	11.7	38
352d0.900	0.900	14.7	38
352d0.950	0.950	14.7	38
352d1.000	1.000	14.7	38
352d1.050	1.050	14.7	38
352d1.100	1.100	14.7	38
352d1.150	1.150	14.7	38
352d1.200	1.200	14.7	38
352d1.250	1.250	14.7	38
352d1.300	1.300	14.7	38
352d1.350	1.350	14.7	38
352d1.400	1.400	14.7	38
352d1.450	1.450	14.7	38
352d1.500	1.500	14.7	38
352d1.550	1.550	14.7	38
352d1.600	1.600	14.7	38
352d1.650	1.650	14.7	38
352d1.700	1.700	14.7	38
352d1.750	1.750	14.7	38
352d1.800	1.800	14.7	38
352d1.850	1.850	14.7	38

Art. n°	d_1	L_1	L
352d1.900	1.900	14.7	38
352d1.950	1.950	14.7	38
352d2.000	2.000	14.7	38
352d2.050	2.050	14.7	38
352d2.100	2.100	14.7	38
352d2.150	2.150	14.7	38
352d2.200	2.200	14.7	38
352d2.250	2.250	14.7	38
352d2.300	2.300	14.7	38
352d2.350	2.350	14.7	38
352d2.400	2.400	14.7	38
352d2.450	2.450	14.7	38
352d2.500	2.500	14.7	38
352d2.550	2.550	14.7	38
352d2.600	2.600	14.7	38
352d2.650	2.650	14.7	38
352d2.700	2.700	14.7	38
352d2.750	2.750	14.7	38
352d2.800	2.800	14.7	38
352d2.850	2.850	14.7	38
352d2.900	2.900	14.7	38
352d2.950	2.950	14.7	38
352d3.000	3.000	14.7	38
352d3.050	3.050	14.7	38
352d3.100	3.100	14.7	38
352d3.150	3.150	14.7	38
352d3.175	3.175	14.7	38
352d3.200	3.200	19.7	50
352d3.300	3.300	19.7	50
352d3.400	3.400	19.7	50
352d3.500	3.500	19.7	50
352d3.600	3.600	19.7	50



Lange Spiralbohrer - Helix 34°

352

Folge

Art. n°	d ₁	l ₁	L
352d3.700	3.700	19.7	50
352d3.800	3.800	19.7	50
352d3.900	3.900	19.7	50
352d4.000	4.000	19.7	50
352d4.100	4.100	24.7	50
352d4.200	4.200	24.7	50
352d4.300	4.300	24.7	50
352d4.400	4.400	24.7	50
352d4.500	4.500	24.7	50
352d4.600	4.600	24.7	50
352d4.700	4.700	24.7	50
352d4.800	4.800	24.7	50
352d4.900	4.900	24.7	50
352d5.000	5.000	24.7	50
352d5.100	5.100	24.7	50
352d5.200	5.200	24.7	50
352d5.300	5.300	24.7	50
352d5.400	5.400	24.7	50
352d5.500	5.500	24.7	50
352d5.600	5.600	24.7	50
352d5.700	5.700	24.7	50
352d5.800	5.800	24.7	50
352d5.900	5.900	24.7	50
352d6.000	6.000	24.7	50
352d6.100	6.100	30.0	70
352d6.200	6.200	30.0	70
352d6.300	6.300	30.0	70
352d6.400	6.400	30.0	70
352d6.500	6.500	30.0	70
352d6.600	6.600	30.0	70
352d6.700	6.700	30.0	70
352d6.800	6.800	33.0	74
352d6.900	6.900	33.0	74
352d7.000	7.000	33.0	74
352d7.100	7.100	33.0	74
352d7.200	7.200	33.0	74
352d7.300	7.300	33.0	74
352d7.400	7.400	33.0	74
352d7.500	7.500	33.0	74
352d7.600	7.600	36.0	79
352d7.700	7.700	36.0	79
352d7.800	7.800	36.0	79
352d7.900	7.900	36.0	79
352d8.000	8.000	36.0	79
352d8.100	8.100	36.0	79
352d8.200	8.200	36.0	79
352d8.300	8.300	36.0	79
352d8.400	8.400	36.0	79

Art. n°	d ₁	l ₁	L
352d8.500	8.500	36.0	79
352d8.600	8.600	39.0	84
352d8.700	8.700	39.0	84
352d8.800	8.800	39.0	84
352d8.900	8.900	39.0	84
352d9.000	9.000	39.0	84
352d9.100	9.100	39.0	84
352d9.200	9.200	39.0	84
352d9.300	9.300	39.0	84
352d9.400	9.400	39.0	84
352d9.500	9.500	39.0	84
352d9.600	9.600	41.0	89
352d9.700	9.700	41.0	89
352d9.800	9.800	41.0	89
352d9.900	9.900	41.0	89
352d10.000	10.000	41.0	89
352d10.200	10.200	41.0	89
352d10.500	10.500	41.0	89
352d11.000	11.000	45.0	95
352d11.500	11.500	45.0	95
352d12.000	12.000	49.0	102
352d12.500	12.500	49.0	102
352d13.000	13.000	49.0	102
352d13.500	13.500	52.0	107
352d14.000	14.000	52.0	107
352d15.000	15.000	54.0	111
352d16.000	16.000	56.0	115
352d17.000	17.000	58.0	119
352d18.000	18.000	60.0	123
352d19.000	19.000	62.0	127
352d20.000	20.000	64.0	131



Erhältlich unbeschichtet und beschichtet (Siehe Seite 61)



118°

Z2

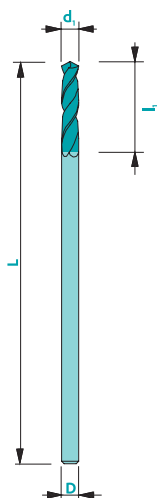


λ
34°

MC10

N

Kurze Spiralbohrer - Helix 34°



Erhältlich unbeschichtet und beschichtet
(Siehe Seite 61)

Werkstoffe	Vc unbeschichtet	Vc beschichtet	Unbeschichtet	beschichtet	Empfohlene Beschichtung
Stahl < 700 N/mm ²	70	80	□	□	Trio
Stahl > 700 N/mm ²	60	70	□	■	Trio
Nichtrostende Stähle	20	40	□	■	Nemo
Gusseisen	60	70	□	■	Nemo
Kupfer	100	130	□	■	Solo
Messing - Bronze	80	120	■	■	Solo
Aluminium	100	120	■	■	Solo
Gold - Silber	80	100	□	□	Solo
Platin - Palladium	-	20	-	□	Solo
Superlegierungen	-	25	-	□	Trio
Titan	40	60	□	□	Rico

nicht geeignet - geeignet □ sehr geeignet ■

Toleranzen d_1 : h5

	Z2
λ 34°	
MG10	N

Art. n°	d_1	l_1	L
352-1d0.30	0.30	1.5	30
352-1d0.40	0.40	2.3	30
352-1d0.50	0.50	2.8	30
352-1d0.60	0.60	3.3	30
352-1d0.70	0.70	4.3	30
352-1d0.80	0.80	4.8	30
352-1d0.90	0.90	5.3	30
352-1d1.00	1.00	5.7	30
352-1d1.10	1.10	6.7	30
352-1d1.20	1.20	7.7	30
352-1d1.30	1.30	7.7	30
352-1d1.40	1.40	8.8	32
352-1d1.50	1.50	8.8	32
352-1d1.60	1.60	9.7	34
352-1d1.70	1.70	9.7	34
352-1d1.80	1.80	10.7	36
352-1d1.90	1.90	10.7	36
352-1d2.00	2.00	11.5	38

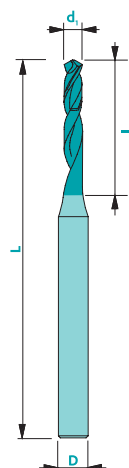
EXPERT Bohrer für Nichtrostende Stähle

370

Ø Bohrer	f [mm/tour]	Vc [m/min]	Entspannvorgang
Ø 0.50 - Ø 0.70	0.01 / 0.015	25	1/3xØ
Ø 0.71 - Ø 0.99	0.015 / 0.02	25	1/3xØ
Ø 1.00 - Ø 1.50	0.02 / 0.03	30	1/3xØ
Ø 1.50 - Ø 2.00	0.03 / 0.04	30	1/3xØ
Ø 2.00 - Ø 3.00	0.045 / 0.055	30	1/3xØ

Vorzentrierung mit Anbohrer Ref. 337-2 empfohlen für Diameter < 1.00 mm

Toleranzen d_1 : -0.002/-0.004 D : h5
 l_1 : 0.1/-0



NEMO beschichtet
(Siehe Seite 61)

Art. n°	d_1	l_1	D	L	Art. n°	d_1	l_1	D	L
370d0.50NM	0.50	4	3	38	370d0.79NM	0.79	5	3	38
370d0.51NM	0.51	4	3	38	370d0.80NM	0.80	6	3	38
370d0.52NM	0.52	4	3	38	370d0.81NM	0.81	6	3	38
370d0.53NM	0.53	4	3	38	370d0.82NM	0.82	6	3	38
370d0.54NM	0.54	4	3	38	370d0.83NM	0.83	6	3	38
370d0.55NM	0.55	4	3	38	370d0.84NM	0.84	6	3	38
370d0.56NM	0.56	4	3	38	370d0.85NM	0.85	6	3	38
370d0.57NM	0.57	4	3	38	370d0.86NM	0.86	6	3	38
370d0.58NM	0.58	4	3	38	370d0.87NM	0.87	6	3	38
370d0.59NM	0.59	4	3	38	370d0.88NM	0.88	6	3	38
370d0.60NM	0.60	5	3	38	370d0.89NM	0.89	6	3	38
370d0.61NM	0.61	5	3	38	370d0.90NM	0.90	6	3	38
370d0.62NM	0.62	5	3	38	370d0.91NM	0.91	8	3	38
370d0.63NM	0.63	5	3	38	370d0.92NM	0.92	8	3	38
370d0.64NM	0.64	5	3	38	370d0.93NM	0.93	8	3	38
370d0.65NM	0.65	5	3	38	370d0.94NM	0.94	8	3	38
370d0.66NM	0.66	5	3	38	370d0.95NM	0.95	8	3	38
370d0.67NM	0.67	5	3	38	370d0.96NM	0.96	8	3	38
370d0.68NM	0.68	5	3	38	370d0.97NM	0.97	8	3	38
370d0.69NM	0.69	5	3	38	370d0.98NM	0.98	8	3	38
370d0.70NM	0.70	5	3	38	370d0.99NM	0.99	8	3	38
370d0.71NM	0.71	5	3	38	370d1.00NM	1.00	8	3	38
370d0.72NM	0.72	5	3	38	370d1.01NM	1.01	8	3	38
370d0.73NM	0.73	5	3	38	370d1.02NM	1.02	8	3	38
370d0.74NM	0.74	5	3	38	370d1.03NM	1.03	8	3	38
370d0.75NM	0.75	5	3	38	370d1.04NM	1.04	8	3	38
370d0.76NM	0.76	5	3	38	370d1.05NM	1.05	8	3	38
370d0.77NM	0.77	5	3	38	370d1.06NM	1.06	8	3	38
370d0.78NM	0.78	5	3	38	370d1.07NM	1.07	8	3	38



135°

Z2



λ
Variable

MG10

N

EXPERT Bohrer - Inox



NEMO beschichtet
(Siehe Seite 61)



135°

Z2



λ
Variable

MG10

N

Art. n°	d ₁	l ₁	D	L
370d1.08NM	1.08	8	3	38
370d1.09NM	1.09	8	3	38
370d1.10NM	1.10	8	3	38
370d1.11NM	1.11	8	3	38
370d1.12NM	1.12	8	3	38
370d1.13NM	1.13	8	3	38
370d1.14NM	1.14	8	3	38
370d1.15NM	1.15	8	3	38
370d1.16NM	1.16	8	3	38
370d1.17NM	1.17	8	3	38
370d1.18NM	1.18	8	3	38
370d1.19NM	1.19	8	3	38
370d1.20NM	1.20	8	3	38
370d1.21NM	1.21	8	3	38
370d1.22NM	1.22	8	3	38
370d1.23NM	1.23	8	3	38
370d1.24NM	1.24	8	3	38
370d1.25NM	1.25	8	3	38
370d1.26NM	1.26	8	3	38
370d1.27NM	1.27	8	3	38
370d1.28NM	1.28	8	3	38
370d1.29NM	1.29	8	3	38
370d1.30NM	1.30	8	3	38
370d1.31NM	1.31	8	3	38
370d1.32NM	1.32	8	3	38
370d1.33NM	1.33	8	3	38
370d1.34NM	1.34	8	3	38
370d1.35NM	1.35	8	3	38
370d1.36NM	1.36	8	3	38
370d1.37NM	1.37	8	3	38
370d1.38NM	1.38	8	3	38
370d1.39NM	1.39	8	3	38
370d1.40NM	1.40	8	3	38
370d1.41NM	1.41	8	3	38
370d1.42NM	1.42	8	3	38
370d1.43NM	1.43	8	3	38
370d1.44NM	1.44	8	3	38
370d1.45NM	1.45	8	3	38
370d1.46NM	1.46	8	3	38
370d1.47NM	1.47	8	3	38
370d1.48NM	1.48	8	3	38
370d1.49NM	1.49	8	3	38
370d1.50NM	1.50	10	3	38
370d1.55NM	1.55	10	3	38
370d1.60NM	1.60	10	3	38

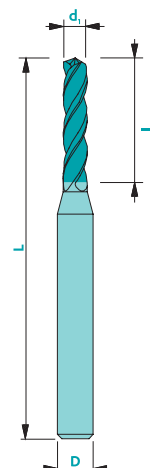
Art. n°	d ₁	l ₁	D	L
370d1.65NM	1.65	10	3	38
370d1.70NM	1.70	12	3	38
370d1.75NM	1.75	12	3	38
370d1.80NM	1.80	12	3	38
370d1.85NM	1.85	12	3	38
370d1.90NM	1.90	12	3	38
370d1.95NM	1.95	12	3	38
370d2.00NM	2.00	12	3	38
370d2.05NM	2.05	12	3	38
370d2.10NM	2.10	12	3	38
370d2.15NM	2.15	12	3	38
370d2.20NM	2.20	12	3	38
370d2.25NM	2.25	12	3	38
370d2.30NM	2.30	12	3	38
370d2.35NM	2.35	12	3	38
370d2.40NM	2.40	12	3	38
370d2.45NM	2.45	12	3	38
370d2.50NM	2.50	12	3	38
370d2.60NM	2.60	12	3	38
370d2.70NM	2.70	12	3	38
370d2.80NM	2.80	12	3	38
370d2.90NM	2.90	12	3	38
370d3.00NM	3.00	12	3	38

Spiralbohrer Z3 - Schaft Ø3

Werkstoffe	Vc unbeschichtet	Vc beschichtet	Unbes- chichtet	beschichtet	Empfohlene Beschichtung
Stahl < 700 N/mm ²	70	80	□	□	Trio
Stahl > 700 N/mm ²	60	70	□	□	Trio
Nichtrostende Stähle	20	40	□	□	Nemo
Gusseisen	60	70	□	□	Nemo
Kupfer	100	130	□	□	Solo
Messing - Bronze	80	120	■	■	Solo
Aluminium	100	120	□	□	Solo
Gold - Silber	80	100	■	■	Solo
Platin - Palladium	-	20	-	□	Solo
Superlegierungen	-	25	-	■	Trio
Titan	40	60	■	■	Rico

nicht geeignet - geeignet □ sehr geeignet ■

Toleranzen d_1 : -0.002/-0.004
D: h5



Erhältlich unbeschichtet und beschichtet (Siehe Seite 61)

Art. n°	d_1	l_1	D	L
353d0.15	0.15	2.0	3.0	38
353d0.18	0.18	2.0	3.0	38
353d0.20	0.20	3.0	3.0	38
353d0.21	0.21	3.0	3.0	38
353d0.22	0.22	3.0	3.0	38
353d0.23	0.23	3.0	3.0	38
353d0.24	0.24	3.0	3.0	38
353d0.25	0.25	3.5	3.0	38
353d0.26	0.26	3.5	3.0	38
353d0.27	0.27	3.5	3.0	38
353d0.28	0.28	3.5	3.0	38
353d0.29	0.29	3.5	3.0	38
353d0.30	0.30	5.0	3.0	38
353d0.31	0.31	5.0	3.0	38
353d0.32	0.32	5.0	3.0	38
353d0.33	0.33	5.0	3.0	38
353d0.34	0.34	5.0	3.0	38
353d0.35	0.35	5.0	3.0	38
353d0.36	0.36	5.0	3.0	38
353d0.37	0.37	5.0	3.0	38
353d0.38	0.38	5.0	3.0	38
353d0.39	0.39	5.0	3.0	38
353d0.40	0.40	6.0	3.0	38
353d0.41	0.41	6.0	3.0	38
353d0.42	0.42	6.0	3.0	38
353d0.43	0.43	6.0	3.0	38
353d0.44	0.44	6.0	3.0	38
353d0.45	0.45	6.0	3.0	38
353d0.46	0.46	6.0	3.0	38

Art. n°	d_1	l_1	D	L
353d0.47	0.47	6.0	3.0	38
353d0.48	0.48	6.0	3.0	38
353d0.49	0.49	6.0	3.0	38
353d0.50	0.50	6.0	3.0	38
353d0.51	0.51	6.0	3.0	38
353d0.52	0.52	6.0	3.0	38
353d0.53	0.53	6.0	3.0	38
353d0.54	0.54	6.0	3.0	38
353d0.55	0.55	7.0	3.0	38
353d0.56	0.56	7.0	3.0	38
353d0.57	0.57	7.0	3.0	38
353d0.58	0.58	7.0	3.0	38
353d0.59	0.59	7.0	3.0	38
353d0.60	0.60	7.0	3.0	38
353d0.61	0.61	7.0	3.0	38
353d0.62	0.62	7.0	3.0	38
353d0.63	0.63	7.0	3.0	38
353d0.64	0.64	7.0	3.0	38
353d0.65	0.65	7.0	3.0	38
353d0.66	0.66	7.0	3.0	38
353d0.67	0.67	7.0	3.0	38
353d0.68	0.68	7.0	3.0	38
353d0.69	0.69	7.0	3.0	38
353d0.70	0.70	9.5	3.0	38
353d0.71	0.71	9.5	3.0	38
353d0.72	0.72	9.5	3.0	38
353d0.73	0.73	9.5	3.0	38
353d0.74	0.74	9.5	3.0	38
353d0.75	0.75	9.5	3.0	38



140°

Z3

λ
34°

MG10

N

Spiralbohrer Z3 - Schaft Ø3



Erhältlich unbeschichtet und beschichtet
(Siehe Seite 61)



140°

Z3

λ
34°

MG10

N

Art. n°	d ₁	l ₁	D	L
353d0.76	0.76	9.5	3.0	38
353d0.77	0.77	9.5	3.0	38
353d0.78	0.78	9.5	3.0	38
353d0.79	0.79	9.5	3.0	38
353d0.80	0.80	9.5	3.0	38
353d0.81	0.81	9.5	3.0	38
353d0.82	0.82	9.5	3.0	38
353d0.83	0.83	9.5	3.0	38
353d0.84	0.84	9.5	3.0	38
353d0.85	0.85	9.5	3.0	38
353d0.86	0.86	9.5	3.0	38
353d0.87	0.87	9.5	3.0	38
353d0.88	0.88	9.5	3.0	38
353d0.89	0.89	9.5	3.0	38
353d0.90	0.90	9.5	3.0	38
353d0.91	0.91	9.5	3.0	38
353d0.92	0.92	9.5	3.0	38
353d0.93	0.93	9.5	3.0	38
353d0.94	0.94	9.5	3.0	38
353d0.95	0.95	9.5	3.0	38
353d0.96	0.96	9.5	3.0	38
353d0.97	0.97	9.5	3.0	38
353d0.98	0.98	9.5	3.0	38
353d0.99	0.99	9.5	3.0	38
353d1.00	1.00	9.5	3.0	38
353d1.01	1.01	9.5	3.0	38
353d1.02	1.02	9.5	3.0	38
353d1.03	1.03	9.5	3.0	38
353d1.04	1.04	9.5	3.0	38
353d1.05	1.05	10.5	3.0	38
353d1.06	1.06	10.5	3.0	38
353d1.07	1.07	10.5	3.0	38
353d1.08	1.08	10.5	3.0	38
353d1.09	1.09	10.5	3.0	38
353d1.10	1.10	10.5	3.0	38
353d1.11	1.11	10.5	3.0	38
353d1.12	1.12	10.5	3.0	38
353d1.13	1.13	10.5	3.0	38
353d1.14	1.14	10.5	3.0	38
353d1.15	1.15	10.5	3.0	38
353d1.16	1.16	10.5	3.0	38
353d1.17	1.17	10.5	3.0	38
353d1.18	1.18	10.5	3.0	38
353d1.19	1.19	10.5	3.0	38

Art. n°	d ₁	l ₁	D	L
353d1.20	1.20	10.5	3.0	38
353d1.21	1.21	10.5	3.0	38
353d1.22	1.22	10.5	3.0	38
353d1.23	1.23	10.5	3.0	38
353d1.24	1.24	10.5	3.0	38
353d1.25	1.25	10.5	3.0	38
353d1.26	1.26	10.5	3.0	38
353d1.27	1.27	10.5	3.0	38
353d1.28	1.28	10.5	3.0	38
353d1.29	1.29	10.5	3.0	38
353d1.30	1.30	10.5	3.0	38
353d1.31	1.31	10.5	3.0	38
353d1.32	1.32	10.5	3.0	38
353d1.33	1.33	10.5	3.0	38
353d1.34	1.34	10.5	3.0	38
353d1.35	1.35	10.5	3.0	38
353d1.36	1.36	10.5	3.0	38
353d1.37	1.37	10.5	3.0	38
353d1.38	1.38	10.5	3.0	38
353d1.39	1.39	10.5	3.0	38
353d1.40	1.40	10.5	3.0	38
353d1.41	1.41	10.5	3.0	38
353d1.42	1.42	10.5	3.0	38
353d1.43	1.43	10.5	3.0	38
353d1.44	1.44	10.5	3.0	38
353d1.45	1.45	10.5	3.0	38
353d1.46	1.46	10.5	3.0	38
353d1.47	1.47	10.5	3.0	38
353d1.48	1.48	10.5	3.0	38
353d1.49	1.49	10.5	3.0	38
353d1.50	1.50	10.5	3.0	38
353d1.51	1.51	10.5	3.0	38
353d1.52	1.52	10.5	3.0	38
353d1.53	1.53	10.5	3.0	38
353d1.54	1.54	10.5	3.0	38
353d1.55	1.55	10.5	3.0	38
353d1.56	1.56	10.5	3.0	38
353d1.57	1.57	10.5	3.0	38
353d1.58	1.58	10.5	3.0	38
353d1.59	1.59	10.5	3.0	38
353d1.60	1.60	10.5	3.0	38
353d1.61	1.61	10.5	3.0	38
353d1.62	1.62	10.5	3.0	38



Spiralbohrer Z3 - Schaft Ø3

353

Folge

Art. n°	d ₁	l ₁	D	L
---------	----------------	----------------	---	---

353d1.63	1.63	10.5	3.0	38
353d1.64	1.64	10.5	3.0	38
353d1.65	1.65	10.5	3.0	38
353d1.66	1.66	10.5	3.0	38
353d1.67	1.67	10.5	3.0	38
353d1.68	1.68	10.5	3.0	38
353d1.69	1.69	10.5	3.0	38
353d1.70	1.70	10.5	3.0	38
353d1.71	1.71	10.5	3.0	38
353d1.72	1.72	10.5	3.0	38
353d1.73	1.73	10.5	3.0	38
353d1.74	1.74	10.5	3.0	38
353d1.75	1.75	10.5	3.0	38
353d1.76	1.76	10.5	3.0	38
353d1.77	1.77	10.5	3.0	38
353d1.78	1.78	10.5	3.0	38
353d1.79	1.79	10.5	3.0	38
353d1.80	1.80	10.5	3.0	38
353d1.81	1.81	10.5	3.0	38
353d1.82	1.82	10.5	3.0	38
353d1.83	1.83	10.5	3.0	38
353d1.84	1.84	10.5	3.0	38
353d1.85	1.85	10.5	3.0	38
353d1.86	1.86	10.5	3.0	38
353d1.87	1.87	10.5	3.0	38
353d1.88	1.88	10.5	3.0	38
353d1.89	1.89	10.5	3.0	38
353d1.90	1.90	10.5	3.0	38
353d1.91	1.91	10.5	3.0	38
353d1.92	1.92	10.5	3.0	38
353d1.93	1.93	10.5	3.0	38
353d1.94	1.94	10.5	3.0	38
353d1.95	1.95	10.5	3.0	38
353d1.96	1.96	10.5	3.0	38
353d1.97	1.97	10.5	3.0	38
353d1.98	1.98	10.5	3.0	38
353d1.99	1.99	10.5	3.0	38
353d2.00	2.00	10.5	3.0	38
353d2.05	2.05	10.5	3.0	38
353d2.10	2.10	10.5	3.0	38
353d2.15	2.15	10.5	3.0	38
353d2.20	2.20	10.5	3.0	38
353d2.25	2.25	10.5	3.0	38

Art. n°	d ₁	l ₁	D	L
---------	----------------	----------------	---	---

353d2.30	2.30	10.5	3.0	38
353d2.35	2.35	10.5	3.0	38
353d2.40	2.40	10.5	3.0	38
353d2.45	2.45	10.5	3.0	38
353d2.50	2.50	10.5	3.0	38
353d2.55	2.55	10.5	3.0	38
353d2.60	2.60	10.5	3.0	38
353d2.65	2.65	10.5	3.0	38
353d2.70	2.70	10.5	3.0	38
353d2.75	2.75	10.5	3.0	38
353d2.80	2.80	10.5	3.0	38
353d2.85	2.85	10.5	3.0	38
353d2.90	2.90	10.5	3.0	38
353d2.95	2.95	10.5	3.0	38
353d3.00	3.00	10.5	3.0	38



Erhältlich unbeschichtet und beschichtet
(Siehe Seite 61)



140°

Z3



λ
34°

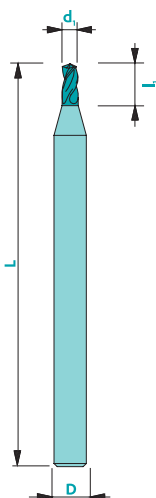
MG10

N

Spiralbohrer Z3 - Schaft Ø3 - kurz



Erhältlich unbeschichtet und beschichtet
(Siehe Seite 61)



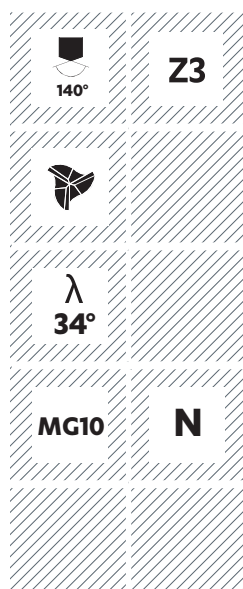
Werkstoffe

	Vc unbeschichtet	Vc beschichtet	Unbes- chichtet	beschichtet	Empfohlene Beschichtung
Stahl < 700 N/mm ²	70	80	□	□	Trio
Stahl > 700 N/mm ²	60	70	□	□	Trio
Nichtrostende Stähle	20	40	□	□	Nemo
Gusseisen	60	70	□	□	Nemo
Kupfer	100	130	□	□	Solo
Messing - Bronze	80	120	■	■	Solo
Aluminium	100	120	□	□	Solo
Gold - Silber	80	100	■	■	Solo
Platin - Palladium	-	20	-	□	Solo
Superlegierungen	-	25	-	■	Trio
Titan	40	60	■	■	Rico

nicht geeignet - geeignet □ sehr geeignet ■

Toleranzen

d₁: -0.002/-0.004
D: h5



Art. n°	d ₁	l ₁	D	L
353-0d0.10	0.10	1.0	3.0	38
353-0d0.13	0.13	1.5	3.0	38
353-0d0.15	0.15	1.5	3.0	38
353-0d0.20	0.20	2.0	3.0	38
353-0d0.21	0.21	2.0	3.0	38
353-0d0.22	0.22	2.0	3.0	38
353-0d0.23	0.23	2.0	3.0	38
353-0d0.24	0.24	2.0	3.0	38
353-0d0.25	0.25	2.0	3.0	38
353-0d0.26	0.26	2.0	3.0	38
353-0d0.27	0.27	2.0	3.0	38
353-0d0.28	0.28	2.0	3.0	38
353-0d0.29	0.29	2.0	3.0	38
353-0d0.30	0.30	2.0	3.0	38
353-0d0.31	0.31	2.0	3.0	38
353-0d0.32	0.32	2.0	3.0	38
353-0d0.33	0.33	2.0	3.0	38
353-0d0.34	0.34	2.0	3.0	38
353-0d0.35	0.35	2.0	3.0	38
353-0d0.36	0.36	2.0	3.0	38
353-0d0.37	0.37	2.0	3.0	38
353-0d0.38	0.38	2.0	3.0	38
353-0d0.39	0.39	2.0	3.0	38
353-0d0.40	0.40	2.0	3.0	38
353-0d0.41	0.41	2.0	3.0	38
353-0d0.42	0.42	2.0	3.0	38
353-0d0.43	0.43	2.0	3.0	38
353-0d0.44	0.44	2.0	3.0	38
353-0d0.45	0.45	2.0	3.0	38
353-0d0.46	0.46	2.0	3.0	38

Art. n°	d ₁	l ₁	D	L
353-0d0.47	0.47	2.0	3.0	38
353-0d0.48	0.48	2.0	3.0	38
353-0d0.49	0.49	2.0	3.0	38
353-0d0.50	0.50	3.0	3.0	38
353-0d0.51	0.51	3.0	3.0	38
353-0d0.52	0.52	3.0	3.0	38
353-0d0.53	0.53	3.0	3.0	38
353-0d0.54	0.54	3.0	3.0	38
353-0d0.55	0.55	3.0	3.0	38
353-0d0.56	0.56	3.0	3.0	38
353-0d0.57	0.57	3.0	3.0	38
353-0d0.58	0.58	3.0	3.0	38
353-0d0.59	0.59	3.0	3.0	38
353-0d0.60	0.60	3.0	3.0	38
353-0d0.61	0.61	3.0	3.0	38
353-0d0.62	0.62	3.0	3.0	38
353-0d0.63	0.63	3.0	3.0	38
353-0d0.64	0.64	3.0	3.0	38
353-0d0.65	0.65	3.0	3.0	38
353-0d0.66	0.66	3.0	3.0	38
353-0d0.67	0.67	3.0	3.0	38
353-0d0.68	0.68	3.0	3.0	38
353-0d0.69	0.69	3.0	3.0	38
353-0d0.70	0.70	3.0	3.0	38
353-0d0.71	0.71	3.0	3.0	38
353-0d0.72	0.72	3.0	3.0	38
353-0d0.73	0.73	3.0	3.0	38
353-0d0.74	0.74	3.0	3.0	38
353-0d0.75	0.75	3.0	3.0	38



Spiralbohrer Z3 - Schaft Ø3 - kurz

353-0

Folge

Art. n°	d ₁	l ₁	D	L
353-Od0.76	0.76	3.0	3.0	38
353-Od0.77	0.77	3.0	3.0	38
353-Od0.78	0.78	3.0	3.0	38
353-Od0.79	0.79	3.0	3.0	38
353-Od0.80	0.80	3.0	3.0	38
353-Od0.81	0.81	3.0	3.0	38
353-Od0.82	0.82	3.0	3.0	38
353-Od0.83	0.83	3.0	3.0	38
353-Od0.84	0.84	3.0	3.0	38
353-Od0.85	0.85	3.0	3.0	38
353-Od0.86	0.86	3.0	3.0	38
353-Od0.87	0.87	3.0	3.0	38
353-Od0.88	0.88	3.0	3.0	38
353-Od0.89	0.89	3.0	3.0	38
353-Od0.90	0.90	3.0	3.0	38
353-Od0.91	0.91	3.0	3.0	38
353-Od0.92	0.92	3.0	3.0	38
353-Od0.93	0.93	3.0	3.0	38
353-Od0.94	0.94	3.0	3.0	38
353-Od0.95	0.95	3.0	3.0	38
353-Od0.96	0.96	3.0	3.0	38
353-Od0.97	0.97	3.0	3.0	38
353-Od0.98	0.98	3.0	3.0	38
353-Od0.99	0.99	3.0	3.0	38
353-Od1.00	1.00	3.5	3.0	38
353-Od1.01	1.01	3.5	3.0	38
353-Od1.02	1.02	3.5	3.0	38
353-Od1.03	1.03	3.5	3.0	38
353-Od1.04	1.04	3.5	3.0	38
353-Od1.05	1.05	3.5	3.0	38
353-Od1.06	1.06	3.5	3.0	38
353-Od1.07	1.07	3.5	3.0	38
353-Od1.08	1.08	3.5	3.0	38
353-Od1.09	1.09	3.5	3.0	38
353-Od1.10	1.10	3.5	3.0	38
353-Od1.11	1.11	3.5	3.0	38
353-Od1.12	1.12	3.5	3.0	38
353-Od1.13	1.13	3.5	3.0	38
353-Od1.14	1.14	3.5	3.0	38
353-Od1.15	1.15	3.5	3.0	38
353-Od1.16	1.16	3.5	3.0	38
353-Od1.17	1.17	3.5	3.0	38
353-Od1.18	1.18	3.5	3.0	38
353-Od1.19	1.19	3.5	3.0	38

Art. n°	d ₁	l ₁	D	L
353-Od1.20	1.20	3.5	3.0	38
353-Od1.21	1.21	3.5	3.0	38
353-Od1.22	1.22	3.5	3.0	38
353-Od1.23	1.23	3.5	3.0	38
353-Od1.24	1.24	3.5	3.0	38
353-Od1.25	1.25	3.5	3.0	38
353-Od1.26	1.26	3.5	3.0	38
353-Od1.27	1.27	3.5	3.0	38
353-Od1.28	1.28	3.5	3.0	38
353-Od1.29	1.29	3.5	3.0	38
353-Od1.30	1.30	3.5	3.0	38
353-Od1.31	1.31	3.5	3.0	38
353-Od1.32	1.32	3.5	3.0	38
353-Od1.33	1.33	3.5	3.0	38
353-Od1.34	1.34	3.5	3.0	38
353-Od1.35	1.35	3.5	3.0	38
353-Od1.36	1.36	3.5	3.0	38
353-Od1.37	1.37	3.5	3.0	38
353-Od1.38	1.38	3.5	3.0	38
353-Od1.39	1.39	3.5	3.0	38
353-Od1.40	1.40	3.5	3.0	38
353-Od1.41	1.41	3.5	3.0	38
353-Od1.42	1.42	3.5	3.0	38
353-Od1.43	1.43	3.5	3.0	38
353-Od1.44	1.44	3.5	3.0	38
353-Od1.45	1.45	3.5	3.0	38
353-Od1.46	1.46	3.5	3.0	38
353-Od1.47	1.47	3.5	3.0	38
353-Od1.48	1.48	3.5	3.0	38
353-Od1.49	1.49	3.5	3.0	38
353-Od1.50	1.50	3.5	3.0	38



Erhältlich unbeschichtet und beschichtet
(Siehe Seite 61)



140°

Z3

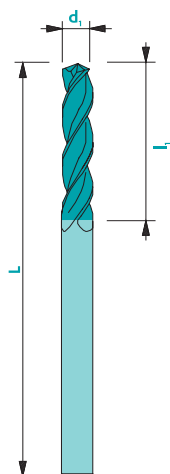


λ
34°

MC10

N

Spiralbohrer Z3



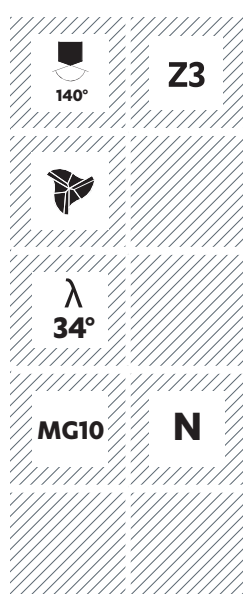
Erhältlich unbeschichtet und beschichtet
(Siehe Seite 61)

Werkstoffe

	Vc unbeschichtet	Vc beschichtet	Unbeschichtet	beschichtet	Empfohlene Beschichtung
Stahl < 700 N/mm²	70	80	□	□	Trio
Stahl > 700 N/mm²	60	70	□	□	Trio
Nichtrostende Stähle	20	40	□	□	Nemo
Gusseisen	60	70	□	□	Nemo
Kupfer	100	130	□	□	Solo
Messing - Bronze	80	120	■	■	Solo
Aluminium	100	120	□	□	Solo
Gold - Silber	80	100	■	■	Solo
Platin - Palladium	-	20	-	□	Solo
Superlegierungen	-	25	-	■	Trio
Titan	40	60	■	■	Rico

nicht geeignet - geeignet □ sehr geeignet ■

Toleranzen d_1 ; h5



Art. n°	d_1	l_1	L
353-1d1.00	1.00	6.0	38
353-1d1.10	1.10	6.5	38
353-1d1.20	1.20	7.5	38
353-1d1.30	1.30	7.5	38
353-1d1.40	1.40	8.5	38
353-1d1.50	1.50	8.5	38
353-1d1.60	1.60	9.5	38
353-1d1.70	1.70	9.5	38
353-1d1.80	1.80	10.5	38
353-1d1.90	1.90	10.5	38
353-1d2.00	2.00	11.5	38
353-1d2.10	2.10	11.5	38
353-1d2.20	2.20	12.5	40
353-1d2.30	2.30	12.5	40
353-1d2.40	2.40	13.5	43
353-1d2.50	2.50	13.5	43
353-1d2.60	2.60	13.5	43
353-1d2.70	2.70	15.5	46
353-1d2.80	2.80	15.5	46
353-1d2.90	2.90	15.5	46
353-1d3.00	3.00	15.5	46
353-1d3.10	3.10	17.0	49
353-1d3.20	3.20	17.0	49
353-1d3.30	3.30	17.0	49
353-1d3.40	3.40	19.0	52
353-1d3.50	3.50	19.0	52
353-1d3.60	3.60	19.0	52
353-1d3.70	3.70	19.0	52
353-1d3.80	3.80	21.0	55
353-1d3.90	3.90	21.0	55
353-1d4.00	4.00	21.0	55

Art. n°	d_1	l_1	L
353-1d4.10	4.10	21.0	55
353-1d4.20	4.20	21.0	55
353-1d4.30	4.30	22.5	58
353-1d4.40	4.40	22.5	58
353-1d4.50	4.50	22.5	58
353-1d4.60	4.60	22.5	58
353-1d4.70	4.70	22.5	58
353-1d4.80	4.80	24.5	62
353-1d4.90	4.90	24.5	62
353-1d5.00	5.00	24.5	62
353-1d5.10	5.10	24.5	62
353-1d5.20	5.20	24.5	62
353-1d5.30	5.30	24.5	62
353-1d5.40	5.40	26.0	66
353-1d5.50	5.50	26.0	66
353-1d5.60	5.60	26.0	66
353-1d5.70	5.70	26.0	66
353-1d5.80	5.80	26.0	66
353-1d5.90	5.90	26.0	66
353-1d6.00	6.00	26.0	66
353-1d6.10	6.10	28.5	70
353-1d6.20	6.20	28.5	70
353-1d6.30	6.30	28.5	70
353-1d6.40	6.40	28.5	70
353-1d6.50	6.50	28.5	70
353-1d6.60	6.60	28.5	70
353-1d6.70	6.70	28.5	70
353-1d6.80	6.80	31.0	74
353-1d6.90	6.90	31.0	74



Spiralbohrer Z3

353-1

Folge

Art. n°	d ₁	l ₁	L
353-1d7.00	7.00	31.0	74
353-1d7.10	7.10	31.0	74
353-1d7.20	7.20	31.0	74
353-1d7.30	7.30	31.0	74
353-1d7.40	7.40	31.0	74
353-1d7.50	7.50	31.0	74
353-1d7.60	7.60	34.0	79
353-1d7.70	7.70	34.0	79
353-1d7.80	7.80	34.0	79
353-1d7.90	7.90	34.0	79
353-1d8.00	8.00	34.0	79
353-1d8.10	8.10	34.0	79
353-1d8.20	8.20	34.0	79
353-1d8.30	8.30	34.0	79
353-1d8.40	8.40	34.0	79
353-1d8.50	8.50	34.0	79
353-1d8.60	8.60	36.5	84
353-1d8.70	8.70	36.5	84
353-1d8.80	8.80	36.5	84
353-1d8.90	8.90	36.5	84
353-1d9.00	9.00	36.5	84
353-1d9.10	9.10	36.5	84
353-1d9.20	9.20	36.5	84
353-1d9.30	9.30	36.5	84
353-1d9.40	9.40	36.5	84
353-1d9.50	9.50	36.5	84
353-1d9.60	9.60	39.0	89
353-1d9.70	9.70	39.0	89
353-1d9.80	9.80	39.0	89
353-1d9.90	9.90	39.0	89
353-1d10.00	10.00	39.0	89
353-1d10.20	10.20	39.0	89
353-1d10.50	10.50	39.0	89
353-1d11.00	11.00	43.0	95
353-1d11.50	11.50	43.0	95
353-1d12.00	12.00	47.0	102



Erhältlich unbeschichtet und beschichtet
(Siehe Seite 61)



140°

Z3

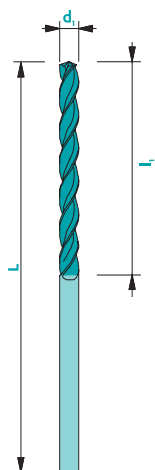


λ
34°

MG10

N

Spiralbohrer Z3 - Lange Serie



Erhältlich unbeschichtet und beschichtet
(Siehe Seite 61)

Werkstoffe	Vc unbeschichtet	Vc beschichtet	Unbeschichtet	beschichtet	Empfohlene Beschichtung
Stahl < 700 N/mm ²	70	80	□	□	Trio
Stahl > 700 N/mm ²	60	70	□	□	Trio
Nichtrostende Stähle	20	40	□	□	Nemo
Gusseisen	60	70	□	□	Nemo
Kupfer	100	130	□	□	Solo
Messing - Bronze	80	120	■	■	Solo
Aluminium	100	120	□	□	Solo
Gold - Silber	80	100	■	■	Solo
Platin - Palladium	-	20	-	□	Solo
Superlegierungen	-	25	-	■	Trio
Titan	40	60	■	■	Rico

nicht geeignet - geeignet □ sehr geeignet ■

Toleranzen $d_1: h5$

	Z3
MG10	N

Art. n°	d_1	l_1	L
353-2d1.00	1.00	11.5	38
353-2d1.10	1.10	13.0	38
353-2d1.20	1.20	15.0	38
353-2d1.30	1.30	15.0	38
353-2d1.40	1.40	17.0	40
353-2d1.50	1.50	17.0	40
353-2d1.60	1.60	19.0	43
353-2d1.70	1.70	19.0	43
353-2d1.80	1.80	21.0	46
353-2d1.90	1.90	21.0	46
353-2d2.00	2.00	22.0	49
353-2d2.10	2.10	22.0	49
353-2d2.20	2.20	25.0	53
353-2d2.30	2.30	25.0	53
353-2d2.40	2.40	28.0	57
353-2d2.50	2.50	28.0	57
353-2d2.60	2.60	28.0	57
353-2d2.70	2.70	31.0	61
353-2d2.80	2.80	31.0	61
353-2d2.90	2.90	31.0	61
353-2d3.00	3.00	31.0	61
353-2d3.10	3.10	34.0	65
353-2d3.20	3.20	34.0	65
353-2d3.30	3.30	34.0	65
353-2d3.40	3.40	37.0	70
353-2d3.50	3.50	37.0	70
353-2d3.60	3.60	37.0	70
353-2d3.70	3.70	37.0	70
353-2d3.80	3.80	41.0	75
353-2d3.90	3.90	41.0	75
353-2d4.00	4.00	41.0	75

Art. n°	d_1	l_1	L
353-2d4.10	4.10	41.0	75
353-2d4.20	4.20	41.0	75
353-2d4.30	4.30	45.0	80
353-2d4.40	4.40	45.0	80
353-2d4.50	4.50	45.0	80
353-2d4.60	4.60	45.0	80
353-2d4.70	4.70	45.0	80
353-2d4.80	4.80	50.0	86
353-2d4.90	4.90	50.0	86
353-2d5.00	5.00	50.0	86
353-2d5.10	5.10	50.0	86
353-2d5.20	5.20	50.0	86
353-2d5.30	5.30	50.0	86
353-2d5.40	5.40	55.0	93
353-2d5.50	5.50	55.0	93
353-2d5.60	5.60	55.0	93
353-2d5.70	5.70	55.0	93
353-2d5.80	5.80	55.0	93
353-2d5.90	5.90	55.0	93
353-2d6.00	6.00	55.0	93
353-2d6.10	6.10	60.0	101
353-2d6.20	6.20	60.0	101
353-2d6.30	6.30	60.0	101
353-2d6.40	6.40	60.0	101
353-2d6.50	6.50	60.0	101
353-2d6.60	6.60	60.0	101
353-2d6.70	6.70	60.0	101
353-2d6.80	6.80	66.0	109
353-2d6.90	6.90	66.0	109



Spiralbohrer Z3 - Lange Serie

353-2

Folge

Art. n°	d ₁	l ₁	L
353-2d7.00	7.00	66.0	109
353-2d7.10	7.10	66.0	109
353-2d7.20	7.20	66.0	109
353-2d7.30	7.30	66.0	109
353-2d7.40	7.40	66.0	109
353-2d7.50	7.50	66.0	109
353-2d7.60	7.60	72.0	117
353-2d7.70	7.70	72.0	117
353-2d7.80	7.80	72.0	117
353-2d7.90	7.90	72.0	117
353-2d8.00	8.00	72.0	117
353-2d8.10	8.10	72.0	117
353-2d8.20	8.20	72.0	117
353-2d8.30	8.30	72.0	117
353-2d8.40	8.40	72.0	117
353-2d8.50	8.50	72.0	117
353-2d8.60	8.60	78.0	125
353-2d8.70	8.70	78.0	125
353-2d8.80	8.80	78.0	125
353-2d8.90	8.90	78.0	125
353-2d9.00	9.00	78.0	125
353-2d9.10	9.10	78.0	125
353-2d9.20	9.20	78.0	125
353-2d9.30	9.30	78.0	125
353-2d9.40	9.40	78.0	125
353-2d9.50	9.50	78.0	125
353-2d9.60	9.60	84.0	133
353-2d9.70	9.70	84.0	133
353-2d9.80	9.80	84.0	133
353-2d9.90	9.90	84.0	133
353-2d10.00	10.00	84.0	133
353-2d10.20	10.20	84.0	133
353-2d10.50	10.50	84.0	133
353-2d11.00	11.00	91.0	142
353-2d11.50	11.50	91.0	142
353-2d12.00	12.00	98.0	151
353-2d12.50	12.50	98.0	151
353-2d13.00	13.00	98.0	151
353-2d13.50	13.50	105.0	160
353-2d14.00	14.00	105.0	160



Erhältlich unbeschichtet und beschichtet
(Siehe Seite 61)



140°

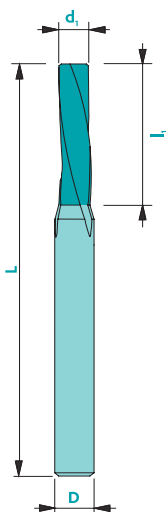
Z3



λ
34°

MG10

N



Erhältlich unbeschichtet und beschichtet
(Siehe Seite 61)

Werkstoffe

	Vc unbeschichtet	Vc beschichtet	Unbeschichtet	beschichtet	Empfohlene Beschichtung
Stahl < 700 N/mm ²	15	20	□	■	Trio
Stahl > 700 N/mm ²	10	15	□	■	Trio
Nichtrostende Stähle	10	15	□	■	Trio
Gusseisen	10	15	□	■	Trio
Kupfer	15	40	□	■	Solo
Messing - Bronze	20	40	□	■	Solo
Aluminium	10	35	■	□	Solo
Gold - Silber	20	40	□	■	Solo
Platin - Palladium	-	10	-	□	Solo
Superlegierungen	-	10	-	□	Trio
Titan	15	-	■	-	-

nicht geeignet - geeignet □ sehr geeignet ■

Toleranzen

$d_1 \leq 1 \text{ mm}$ ► -0.002/-0.004
 $d_1 = D$ ► d_1 : e8
D: h5

Z3-4

 λ
10°

MG10

N

Linksspiralig

Rechtsschneidend

Art. n°	d_1	l_1	D	L	Z	Art. n°	d_1	l_1	D	L	Z
361d0.50Z3	0.50	5.0	3.0	33	3	361d0.78Z3	0.78	6.0	3.0	33	3
361d0.51Z3	0.51	5.0	3.0	33	3	361d0.79Z3	0.79	6.0	3.0	33	3
361d0.52Z3	0.52	5.0	3.0	33	3	361d0.80Z3	0.80	6.0	3.0	33	3
361d0.53Z3	0.53	5.0	3.0	33	3	361d0.81Z3	0.81	6.0	3.0	33	3
361d0.54Z3	0.54	5.0	3.0	33	3	361d0.82Z3	0.82	6.0	3.0	33	3
361d0.55Z3	0.55	5.0	3.0	33	3	361d0.83Z3	0.83	6.0	3.0	33	3
361d0.56Z3	0.56	5.0	3.0	33	3	361d0.84Z3	0.84	6.0	3.0	33	3
361d0.57Z3	0.57	5.0	3.0	33	3	361d0.85Z3	0.85	6.0	3.0	33	3
361d0.58Z3	0.58	5.0	3.0	33	3	361d0.86Z3	0.86	6.0	3.0	33	3
361d0.59Z3	0.59	5.0	3.0	33	3	361d0.87Z3	0.87	6.0	3.0	33	3
361d0.60Z3	0.60	5.0	3.0	33	3	361d0.88Z3	0.88	6.0	3.0	33	3
361d0.61Z3	0.61	5.0	3.0	33	3	361d0.89Z3	0.89	6.0	3.0	33	3
361d0.62Z3	0.62	5.0	3.0	33	3	361d0.90Z3	0.90	6.0	3.0	33	3
361d0.63Z3	0.63	5.0	3.0	33	3	361d0.91Z3	0.91	6.0	3.0	33	3
361d0.64Z3	0.64	5.0	3.0	33	3	361d0.92Z3	0.92	6.0	3.0	33	3
361d0.65Z3	0.65	5.0	3.0	33	3	361d0.93Z3	0.93	6.0	3.0	33	3
361d0.66Z3	0.66	5.0	3.0	33	3	361d0.94Z3	0.94	6.0	3.0	33	3
361d0.67Z3	0.67	5.0	3.0	33	3	361d0.95Z3	0.95	6.0	3.0	33	3
361d0.68Z3	0.68	5.0	3.0	33	3	361d0.96Z3	0.96	6.0	3.0	33	3
361d0.69Z3	0.69	5.0	3.0	33	3	361d0.97Z3	0.97	6.0	3.0	33	3
361d0.70Z3	0.70	6.0	3.0	33	3	361d0.98Z3	0.98	6.0	3.0	33	3
361d0.71Z3	0.71	6.0	3.0	33	3	361d0.99Z3	0.99	6.0	3.0	33	3
361d0.72Z3	0.72	6.0	3.0	33	3	361d1.00Z3	1.00	8.0	3.0	33	3
361d0.73Z3	0.73	6.0	3.0	33	3	361d1.01Z3	1.01	8.0	3.0	33	3
361d0.74Z3	0.74	6.0	3.0	33	3	361d1.02Z3	1.02	8.0	3.0	33	3
361d0.75Z3	0.75	6.0	3.0	33	3	361d1.03Z3	1.03	8.0	3.0	33	3
361d0.76Z3	0.76	6.0	3.0	33	3	361d1.04Z3	1.04	8.0	3.0	33	3
361d0.77Z3	0.77	6.0	3.0	33	3	361d1.05Z3	1.05	8.0	3.0	33	3



Reibahlen für die Uhrenindustrie

361

Folge

Art. n°	d ₁	l ₁	D	L	Z	Art. n°	d ₁	l ₁	D	L	Z
361d1.06Z3	1.06	8.0	3.0	33	3	361d1.50Z#	1.50	10.0	3.0	33	3-4
361d1.07Z3	1.07	8.0	3.0	33	3	361d1.51Z#	1.51	10.0	3.0	33	3-4
361d1.08Z3	1.08	8.0	3.0	33	3	361d1.52Z#	1.52	10.0	3.0	33	3-4
361d1.09Z3	1.09	8.0	3.0	33	3	361d1.53Z#	1.53	10.0	3.0	33	3-4
361d1.10Z3	1.10	8.0	3.0	33	3	361d1.54Z#	1.54	10.0	3.0	33	3-4
361d1.11Z3	1.11	8.0	3.0	33	3	361d1.55Z#	1.55	10.0	3.0	33	3-4
361d1.12Z3	1.12	8.0	3.0	33	3	361d1.56Z#	1.56	10.0	3.0	33	3-4
361d1.13Z3	1.13	8.0	3.0	33	3	361d1.57Z#	1.57	10.0	3.0	33	3-4
361d1.14Z3	1.14	8.0	3.0	33	3	361d1.58Z#	1.58	10.0	3.0	33	3-4
361d1.15Z3	1.15	8.0	3.0	33	3	361d1.59Z#	1.59	10.0	3.0	33	3-4
361d1.16Z3	1.16	8.0	3.0	33	3	361d1.60Z#	1.60	10.0	3.0	33	3-4
361d1.17Z3	1.17	8.0	3.0	33	3	361d1.61Z#	1.61	10.0	3.0	33	3-4
361d1.18Z3	1.18	8.0	3.0	33	3	361d1.62Z#	1.62	10.0	3.0	33	3-4
361d1.19Z3	1.19	8.0	3.0	33	3	361d1.63Z#	1.63	10.0	3.0	33	3-4
361d1.20Z3	1.20	8.0	3.0	33	3	361d1.64Z#	1.64	10.0	3.0	33	3-4
361d1.21Z3	1.21	8.0	3.0	33	3	361d1.65Z#	1.65	10.0	3.0	33	3-4
361d1.22Z3	1.22	8.0	3.0	33	3	361d1.66Z#	1.66	10.0	3.0	33	3-4
361d1.23Z3	1.23	8.0	3.0	33	3	361d1.67Z#	1.67	10.0	3.0	33	3-4
361d1.24Z3	1.24	8.0	3.0	33	3	361d1.68Z#	1.68	10.0	3.0	33	3-4
361d1.25Z3	1.25	8.0	3.0	33	3	361d1.69Z#	1.69	10.0	3.0	33	3-4
361d1.26Z3	1.26	8.0	3.0	33	3	361d1.70Z#	1.70	10.0	3.0	33	3-4
361d1.27Z3	1.27	8.0	3.0	33	3	361d1.71Z#	1.71	10.0	3.0	33	3-4
361d1.28Z3	1.28	8.0	3.0	33	3	361d1.72Z#	1.72	10.0	3.0	33	3-4
361d1.29Z3	1.29	8.0	3.0	33	3	361d1.73Z#	1.73	10.0	3.0	33	3-4
361d1.30Z3	1.30	8.0	3.0	33	3	361d1.74Z#	1.74	10.0	3.0	33	3-4
361d1.31Z3	1.31	8.0	3.0	33	3	361d1.75Z#	1.75	10.0	3.0	33	3-4
361d1.32Z3	1.32	8.0	3.0	33	3	361d1.76Z#	1.76	10.0	3.0	33	3-4
361d1.33Z3	1.33	8.0	3.0	33	3	361d1.77Z#	1.77	10.0	3.0	33	3-4
361d1.34Z3	1.34	8.0	3.0	33	3	361d1.78Z#	1.78	10.0	3.0	33	3-4
361d1.35Z3	1.35	8.0	3.0	33	3	361d1.79Z#	1.79	10.0	3.0	33	3-4
361d1.36Z3	1.36	8.0	3.0	33	3	361d1.80Z#	1.80	10.0	3.0	33	3-4
361d1.37Z3	1.37	8.0	3.0	33	3	361d1.81Z#	1.81	10.0	3.0	33	3-4
361d1.38Z3	1.38	8.0	3.0	33	3	361d1.82Z#	1.82	10.0	3.0	33	3-4
361d1.39Z3	1.39	8.0	3.0	33	3	361d1.83Z#	1.83	10.0	3.0	33	3-4
361d1.40Z3	1.40	8.0	3.0	33	3	361d1.84Z#	1.84	10.0	3.0	33	3-4
361d1.41Z3	1.41	8.0	3.0	33	3	361d1.85Z#	1.85	10.0	3.0	33	3-4
361d1.42Z3	1.42	8.0	3.0	33	3	361d1.86Z#	1.86	10.0	3.0	33	3-4
361d1.43Z3	1.43	8.0	3.0	33	3	361d1.87Z#	1.87	10.0	3.0	33	3-4
361d1.44Z3	1.44	8.0	3.0	33	3	361d1.88Z#	1.88	10.0	3.0	33	3-4
361d1.45Z3	1.45	8.0	3.0	33	3	361d1.89Z#	1.89	10.0	3.0	33	3-4
361d1.46Z3	1.46	8.0	3.0	33	3	361d1.90Z#	1.90	10.0	3.0	33	3-4
361d1.47Z3	1.47	8.0	3.0	33	3	361d1.91Z#	1.91	10.0	3.0	33	3-4
361d1.48Z3	1.48	8.0	3.0	33	3	361d1.92Z#	1.92	10.0	3.0	33	3-4
361d1.49Z3	1.49	8.0	3.0	33	3	361d1.93Z#	1.93	10.0	3.0	33	3-4



Erhältlich unbeschichtet und beschichtet (Siehe Seite 61)

Z3-4

λ
10°

MG10

N

Linksspiralig
Rechtsschneidend

Reibahlen für die Uhrenindustrie



Erhältlich unbeschichtet und beschichtet
(Siehe Seite 61)

Z3-4

 λ
10°

MG10

N

Linksspiralig
Rechtsschneidend

Art. n°	d ₁	l ₁	D	L	Z	Art. n°	d ₁	l ₁	D	L	Z
361d1.94Z#	1.94	10.0	3.0	33	3-4	361d2.38Z#	2.38	10.0	3.0	33	3-4
361d1.95Z#	1.95	10.0	3.0	33	3-4	361d2.39Z#	2.39	10.0	3.0	33	3-4
361d1.96Z#	1.96	10.0	3.0	33	3-4	361d2.40Z#	2.40	10.0	3.0	33	3-4
361d1.97Z#	1.97	10.0	3.0	33	3-4	361d2.41Z#	2.41	10.0	3.0	33	3-4
361d1.98Z#	1.98	10.0	3.0	33	3-4	361d2.42Z#	2.42	10.0	3.0	33	3-4
361d1.99Z#	1.99	10.0	3.0	33	3-4	361d2.43Z#	2.43	10.0	3.0	33	3-4
361d2.00Z#	2.00	10.0	3.0	33	3-4	361d2.44Z#	2.44	10.0	3.0	33	3-4
361d2.01Z#	2.01	10.0	3.0	33	3-4	361d2.45Z#	2.45	10.0	3.0	33	3-4
361d2.02Z#	2.02	10.0	3.0	33	3-4	361d2.46Z#	2.46	10.0	3.0	33	3-4
361d2.03Z#	2.03	10.0	3.0	33	3-4	361d2.47Z#	2.47	10.0	3.0	33	3-4
361d2.04Z#	2.04	10.0	3.0	33	3-4	361d2.48Z#	2.48	10.0	3.0	33	3-4
361d2.05Z#	2.05	10.0	3.0	33	3-4	361d2.49Z#	2.49	10.0	3.0	33	3-4
361d2.06Z#	2.06	10.0	3.0	33	3-4	361d2.50Z#	2.50	10.0	3.0	33	3-4
361d2.07Z#	2.07	10.0	3.0	33	3-4	361d2.51Z#	2.51	10.0	3.0	33	3-4
361d2.08Z#	2.08	10.0	3.0	33	3-4	361d2.52Z#	2.52	10.0	3.0	33	3-4
361d2.09Z#	2.09	10.0	3.0	33	3-4	361d2.53Z#	2.53	10.0	3.0	33	3-4
361d2.10Z#	2.10	10.0	3.0	33	3-4	361d2.54Z#	2.54	10.0	3.0	33	3-4
361d2.11Z#	2.11	10.0	3.0	33	3-4	361d2.55Z#	2.55	10.0	3.0	33	3-4
361d2.12Z#	2.12	10.0	3.0	33	3-4	361d2.56Z#	2.56	10.0	3.0	33	3-4
361d2.13Z#	2.13	10.0	3.0	33	3-4	361d2.57Z#	2.57	10.0	3.0	33	3-4
361d2.14Z#	2.14	10.0	3.0	33	3-4	361d2.58Z#	2.58	10.0	3.0	33	3-4
361d2.15Z#	2.15	10.0	3.0	33	3-4	361d2.59Z#	2.59	10.0	3.0	33	3-4
361d2.16Z#	2.16	10.0	3.0	33	3-4	361d2.60Z#	2.60	10.0	3.0	33	3-4
361d2.17Z#	2.17	10.0	3.0	33	3-4	361d2.61Z#	2.61	10.0	3.0	33	3-4
361d2.18Z#	2.18	10.0	3.0	33	3-4	361d2.62Z#	2.62	10.0	3.0	33	3-4
361d2.19Z#	2.19	10.0	3.0	33	3-4	361d2.63Z#	2.63	10.0	3.0	33	3-4
361d2.20Z#	2.20	10.0	3.0	33	3-4	361d2.64Z#	2.64	10.0	3.0	33	3-4
361d2.21Z#	2.21	10.0	3.0	33	3-4	361d2.65Z#	2.65	10.0	3.0	33	3-4
361d2.22Z#	2.22	10.0	3.0	33	3-4	361d2.66Z#	2.66	10.0	3.0	33	3-4
361d2.23Z#	2.23	10.0	3.0	33	3-4	361d2.67Z#	2.67	10.0	3.0	33	3-4
361d2.24Z#	2.24	10.0	3.0	33	3-4	361d2.68Z#	2.68	10.0	3.0	33	3-4
361d2.25Z#	2.25	10.0	3.0	33	3-4	361d2.69Z#	2.69	10.0	3.0	33	3-4
361d2.26Z#	2.26	10.0	3.0	33	3-4	361d2.70Z#	2.70	10.0	3.0	33	3-4
361d2.27Z#	2.27	10.0	3.0	33	3-4	361d2.71Z#	2.71	10.0	3.0	33	3-4
361d2.28Z#	2.28	10.0	3.0	33	3-4	361d2.72Z#	2.72	10.0	3.0	33	3-4
361d2.29Z#	2.29	10.0	3.0	33	3-4	361d2.73Z#	2.73	10.0	3.0	33	3-4
361d2.30Z#	2.30	10.0	3.0	33	3-4	361d2.74Z#	2.74	10.0	3.0	33	3-4
361d2.31Z#	2.31	10.0	3.0	33	3-4	361d2.75Z#	2.75	10.0	3.0	33	3-4
361d2.32Z#	2.32	10.0	3.0	33	3-4	361d2.76Z#	2.76	10.0	3.0	33	3-4
361d2.33Z#	2.33	10.0	3.0	33	3-4	361d2.77Z#	2.77	10.0	3.0	33	3-4
361d2.34Z#	2.34	10.0	3.0	33	3-4	361d2.78Z#	2.78	10.0	3.0	33	3-4
361d2.35Z#	2.35	10.0	3.0	33	3-4	361d2.79Z#	2.79	10.0	3.0	33	3-4
361d2.36Z#	2.36	10.0	3.0	33	3-4	361d2.80Z#	2.80	10.0	3.0	33	3-4
361d2.37Z#	2.37	10.0	3.0	33	3-4	361d2.81Z#	2.81	10.0	3.0	33	3-4



Reibahlen für die Uhrenindustrie

361

Folge

Art. n°	d ₁	l ₁	D	L	Z
361d2.82Z#	2.82	10.0	3.0	33	3-4
361d2.83Z#	2.83	10.0	3.0	33	3-4
361d2.84Z#	2.84	10.0	3.0	33	3-4
361d2.85Z#	2.85	10.0	3.0	33	3-4
361d2.86Z#	2.86	10.0	3.0	33	3-4
361d2.87Z#	2.87	10.0	3.0	33	3-4
361d2.88Z#	2.88	10.0	3.0	33	3-4
361d2.89Z#	2.89	10.0	3.0	33	3-4
361d2.90Z#	2.90	10.0	3.0	33	3-4
361d2.91Z#	2.91	10.0	3.0	33	3-4
361d2.92Z#	2.92	10.0	3.0	33	3-4
361d2.93Z#	2.93	10.0	3.0	33	3-4
361d2.94Z#	2.94	10.0	3.0	33	3-4
361d2.95Z#	2.95	10.0	3.0	33	3-4
361d2.96Z#	2.96	10.0	3.0	33	3-4
361d2.97Z#	2.97	10.0	3.0	33	3-4
361d2.98Z#	2.98	10.0	3.0	33	3-4
361d2.99Z#	2.99	10.0	3.0	33	3-4
361d3.00Z#	3.00	10.0	3.0	33	3-4



Erhältlich unbeschichtet und beschichtet
(Siehe Seite 61)

Z3-4

λ
10°

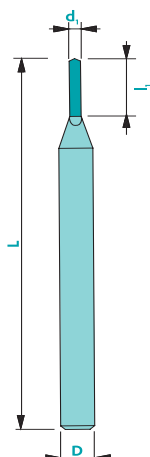
MG10

N

Linksspiralig

Rechtsschneidend

Kanonenbohrer - rechtschneidend



Erhältlich unbeschichtet und beschichtet
(Siehe Seite 61)

120°

Z1



λ
0°

MG10

N

Werkstoffe	Vc unbeschichtet	Vc beschichtet	Unbeschichtet	beschichtet	Empfohlene Beschichtung
Stahl < 700 N/mm²	15	20	□	■	Trio
Stahl > 700 N/mm²	10	15	-	-	Trio
Nichtrostende Stähle	10	15	-	-	Trio
Gusseisen	15	20	-	-	Solo
Kupfer	20	25	□	■	Solo
Messing - Bronze	20	30	■	□	Solo
Aluminium	25	30	-	-	Nemo
Gold - Silber	25	30	■	□	Solo
Platin - Palladium	-	-	-	-	-
Superlegierungen	-	-	-	-	-
Titan	10	15	-	-	Nemo

nicht geeignet - geeignet □ sehr geeignet ■

Toleranzen d_1 : -0.002/-0.004
 l_1 : 0.02/-0

D: h5

Art. n°

d_1

l_1

D

L

363d#.##x#.##

0.20-0.49

Auf Anfrage

3.0

38

363d#.##x#.##

0.50-0.99

Auf Anfrage

3.0

38

363d#.##x#.##

1.00-1.49

Auf Anfrage

3.0

38

363d#.##x#.##

1.50-3.00

Auf Anfrage

3.0

38

☐ Bestellung

☐ Angebotsanfrage

Abmessungen :

d_1 : _____ l_1 : _____

D : _____ L : _____

Toleranzen d_1 : _____

Beschichtungen :

☐ Beschichtet* : _____

☐ Unbeschichtet

Werkstoffe zum spanen :

Menge :

Bestellungs-Nr. :

Stempel des Unternehmens & Datum :

Kontakt Person :

Standard Dimension vom Stab : Ø 3x L 38, Ø 4x L 38, Ø 6x L 38, Ø 6x L 51, Ø 8x L 61, Ø 10x L 72, Ø 12x L 83, Ø 16x L 92, Ø 20x L 104

* Ohne weitere Angaben wird die am besten angepasste Beschichtung angebracht

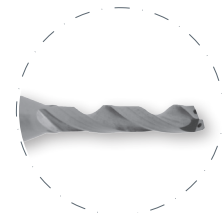
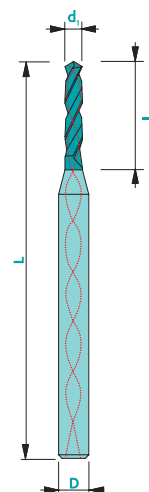
Spiralbohrer mit Kühlkanälen

Werkstoffe	Vc unbeschichtet	Vc beschichtet	Unbes- chichtet	beschichtet	Empfohlene Beschichtung
Stahl < 700 N/mm ²	70	80	□	■	Trio
Stahl > 700 N/mm ²	60	70	□	■	Trio
Nichtrostende Stähle	20	40	□	■	Nemo
Gusseisen	60	70	□	■	Nemo
Kupfer	100	130	□	■	Solo
Messing - Bronze	80	120	■	■	Solo
Aluminium	100	120	□	■	Solo
Gold - Silber	80	100	■	■	Solo
Platin - Palladium	-	20	-	□	Solo
Superlegierungen	-	25	-	■	Trio
Titan	40	60	□	■	Rico

nicht geeignet - geeignet □ sehr geeignet ■

Toleranzen

d_1 : -0.002/-0.004
D: h5



Erhältlich unbeschichtet und beschichtet (Siehe Seite 61)

Art. n°	d_1	l_1	D	L
344d0.70	0.70	6.0	3	38
344d0.75	0.75	6.0	3	38
344d0.80	0.80	6.0	3	38
344d0.85	0.85	6.0	3	38
344d0.90	0.90	6.0	3	38
344d0.95	0.95	6.0	3	38
344d1.00	1.00	8.0	3	38
344d1.10	1.10	8.0	3	38
344d1.20	1.20	8.0	3	38
344d1.25	1.25	8.0	3	38
344d1.30	1.30	8.0	3	38
344d1.40	1.40	8.0	3	38
344d1.50	1.50	12.0	3	38
344d1.60	1.60	12.0	3	38
344d1.70	1.70	12.0	3	38
344d1.75	1.75	12.0	3	38
344d1.80	1.80	12.0	3	38
344d1.90	1.90	12.0	3	38
344d2.00	2.00	12.0	3	38
344d2.10	2.10	12.0	3	38
344d2.20	2.20	12.0	3	38
344d2.30	2.30	12.0	3	38
344d2.40	2.40	12.0	3	38
344d2.50	2.50	12.0	3	38
344d2.60	2.60	12.0	3	38
344d2.70	2.70	12.0	3	38
344d2.80	2.80	12.0	3	38
344d2.90	2.90	12.0	3	38
344d3.00	3.00	12.0	3	38



118°

Z2



MG10

N